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1.12 angular 1.6.5
1.13 angular-animate 1.6.5

1.14 angular-aria 1.6.5

1.15 angular-messages 1.6.5

1.16 angular-sanitize 1.6.5

1.17 angular-ui-grid 3.0.7

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1.18 angular-ui-router 0.2.15

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1.19 AngularJS Toaster 2.0.0

1.20 annotations-api 6.0.20

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1.21 annotations-api 6.0.20

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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishMinimalStemmer.java

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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by: Philip Hazel <ph10@cam.ac.uk>

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
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Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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Before building Xerces, you need the source package and tools
package available from the Apache XML Project's distribution
web page:

http://xml.apache.org/dist/xerces-j/

Download both the Xerces-J-src.X.Y.Z.zip and Xerces-J-tools.X.Y.Z.zip
files for the appropriate Xerces release (where "X.Y.Z" is the version
number) and extract them in the same directory. If you are using Unix,
download the equivalent .tar.gz files instead of the .zip files.
You also need to have a Java Development Kit (JDK) version 1.2 (or higher) installed on your system. Before initiating any part of the build, set the JAVA_HOME environment variable to the installation directory of your JDK.

The Ant program is used to build everything in Xerces, including the documentation. This tool, and the others needed (besides the pre-requisite JDK) are contained within the tools package. To make building the packages easier, a Windows batch file and a Unix shell script are included.

If you only want to compile the source code and make the JAR files, run the following command on Windows:

```bash
build.bat jars
```

or from Unix (make sure that build.sh is executable):

```bash
build.sh jars
```

This will compile all of the source code and generate the JAR files that are available as part of the binary package. After building, these files will be located in the build/ directory.

If you want to build everything, including the documentation, run the build batch file (or shell script) specifying the "all" target instead of "jars".

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<link rel="shortcut icon" type="image/png" href="/resources/favicon.ico"/>
<!-- prettify CSS (corresponding js at footer)--> 
<link rel="stylesheet" href="/resources/css/prettify.css" type="text/css" />
<!-- Bootstrap CSS -->
<link rel="stylesheet" href="/resources/css/bootstrap.css" type="text/css" />
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,600,700,900,400italic,700italic' rel='stylesheet' type='text/css'>
<!-- Custom stylesheet -->
<link rel="stylesheet" href="/resources/css/main.css" type="text/css" /> 
<!-- Typekit (should stay at top of page, do not move to footer)-->
<script type="text/javascript" src="/use.typekit.net/abh3wgk.js"></script>
<script type="text/javascript">try{Typekit.load();}catch(e){}</script>
<!-- Atom feeds -->
<link rel="alternate" type="application/atom+xml" title="News Feed" href="/feed/index.xml" />
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ASM

ASMDEX

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1.52 at 3.1.10 :48.el6

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1.54 attr 2.4.44 :7.el6

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

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(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
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However, linking a "work that uses the Library" with the Library
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library". The executable is therefore covered by this License.
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When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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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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Ty Coon, President of Vice
That's all there is to it!

#!/bin/sh

# $Id$
#
# This file is part of avahi.
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# USA.

set -e

# Command line arguments:
# $1 event that happened:
#   BIND: Successfully claimed address
#   CONFLICT: An IP address conflict happened
#   UNBIND: The IP address is no longer needed
#   STOP: The daemon is terminating
# $2 interface name
# $3 IP address

# We have the BSD ifconfig tool

case "$1" in
  BIND)
    ifconfig "$2" "$3"/16
  ;;

  CONFLICT|STOP|UNBIND)
    ifconfig "$2" "$3"/16 delete
  ;;

  *)
    echo "Unknown event $1" >&2
    exit 1
esac
::
esac

exit 0

1.60 axis-1.4 1.4

1.60.1 Available under license :

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1.61 axis2 1.6.2

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From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-1ns)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.AA13001@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
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
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

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book.

(Too late to actually discuss the thing, at least for this edition).

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

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c7f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>
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(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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
(This file is under construction.)-*- text -*.

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

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.
Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

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

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

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

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

1.71 boost 1.55.0

1.71.1 Notifications :
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    by localhost (Postfix) with ESMTP id B8C814E4F
    for <mps@bridge.intra>; Wed,  1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
    by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
    with LMTP id 05987-03 for <mps@bridge.intra>;
    Wed,  1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
    by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
    for <mps@bridge.intra>; Wed,  1 Mar 2006 20:30:38 +0100 (CET)
    X-Flags: 0000
    Delivered-To: GMX delivery to ps.m@gmx.net
    Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
    Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]
    by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100
    Received: from raptor.research.att.com (raptor.research.att.com [135.207.23.32])
    by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB
    for <ps.m@gmx.net>; Wed,  1 Mar 2006 14:23:45 -0500 (EST)
    Received: (from gsf@localhost)
    by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112
    for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
    Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
    From: Glenn Fowler <gsf@research.att.com>
    Message-Id: <2006030111923.OAA86112@raptor.research.att.com>
    Organization: AT&T Research
    X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
    Mime-Version: 1.0
    Content-Type: text/plain; charset=us-ascii
you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

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1.75 bzip2 1.0.5 :7.el6_0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

1.76 c-ares 1.7.5

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</ul></li>
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Special thanks

Thanks to all that have reported bugs or suggested ideas for Cactus.

Thanks to all that are participating to the Cactus Logo competition.

And, of course ...

Thanks to the Apache Jakarta project for accepting the donation of J2EEUnit (renamed Cactus), thus giving it a home and more importantly a family.

More about us

Vincent Massol
-- Committer
I started designing internet applications in 1998, when I joined OCTO Technology, an Information System Architecture Consulting company, providing expert IT Solutions and Application Architects in the field of new technologies (Application Servers, EAI, Internet Relationship Management). Very soon, when working on customer projects, I introduced the concept of unit testing (using JUnit) as a good way of writing reliable code. Although it worked very well for unit testing "standard" java classes, it was much more difficult for classes that used container objects. Thus, I began developing a small generic framework to help unit test servlets. I improved the framework as I moved on, from customer to customer.

Until it was time to open source it! There were several drivers for that decision. As I spread the word about this framework within Octo, several octomen (and octowoman!) began using it and making modifications, and we ended up with several versions of it, making it difficult to synchronize them (although it was good for the evolutionary and darwinian side of it :)). Another good reason was that I wanted to have feedback from the open source community and wanted to get help to improve it. Also, it was good to be able to provide to our customers a framework that would continue to evolve and be maintained even after we left the project. The last reason, maybe the strongest, is that I have always been fond of the open source concept and as Octo is providing consulting services, it did not clash with our business model!

Thus, I moved the project to SourceForge and called it J2EEUnit. It did well and more and more persons were downloading, participating and using it.

Now, most Applications Servers, EAI solutions or IRM ones are providing an infrastructure on which to build applications. But once you've bought the server, you're far from being finished ... There is the business logic code to write but there is also a lot of "glue" to implement. These are technical frameworks like a Controller of the
MVC model, a logging framework, an XML-Java mapping one, application configuration, localization, templating, ... And usually these frameworks are not provided in the software package you buy. And even if they are (logging for example), they are not best of breed ones. For these frameworks, I have always been using open source solutions so far (Struts, Log4j, Ant, ...). Thus, I was lurking on Jakarta mailing-lists when I heard about a new project starting, called "Commons" which was to be a place where common components useful for several Jakarta projects would be found. I thought the idea of having a server-side java unit testing framework for Jakarta project (which are server side projects) was a good idea. I proposed to donate J2EEUnit to the Apache Software Foundation ... and I was lucky enough it was accepted ! :-)

However, the J2EEUnit name was infringing on the Sun trademark on J2EE so we had to change the name. It was changed to Cactus (see the Why the name? page for why this name). I found that in the move from SourceForge to Jakarta, I had found a new home for Cactus but, more importantly, I had found a family ! The sense of Community is very strong on Jakarta. You can feel right away the atmosphere and see it is different from other places.

Then, thanks to Cactus growing community, our efforts were rewarded and Cactus was accepted as a Jakarta top level project, alongside the renowned Tomcat, Ant, Struts, ... waowww !

We are now busy improving Cactus and looking for help. The first step was to get Cactus up and running and demonstrate it worked and is useful. This step has been achieved (I hope :) ). The second step is now to build a community around Cactus and find persons who are willing to actively participate in the future of it. Unit testing has still not reached the mainstream of development practices but is in the process of doing so with increasing interest in lightweight (also called "Agile") methodologies like Extreme Programming (XP). On the other hand, java server side programming is becoming stronger every day. This is to say that there is a bright future ahead for Cactus and there is still everything to invent.
Although the project started as a one-man project, my goal has always been to relinquish as much as possible my hold on Cactus and make it a community-wide project. This is a work in progress and I am proud to say that I am no longer the only committer on the project and several persons have jumped aboard and are already helping shape Cactus future. Come and help us! :)

More info on my current open source involvements can be found [here](http://c2.com/cgi/wiki?VincentMassol).

I became involved in Cactus while co-authoring [Java Tools for Extreme Programming](http://www.amazon.com/exec/obidos/ASIN/047120708X/) while researching the framework I found myself making some suggestions on the project's mailing list. One thing led to another, and now I am graced with committer status.

I currently work as a Technical Team Lead at [eBlox, Inc](http://www.eblox.com), a consulting and ecommerce application development shop. Right now I lead development of the company's flagship online catalog system, [storeBlox](http://eblox.com/storeblox.php). As such, I'm always working on new ways to test J2EE components, and so my involvement with Cactus is natural.

I'm excited about Cactus 2.0, which we hope will usher in the next
phase in in-container testing by providing a more abstract framework for interacting with a wider variety of containers (EJB, JMS, etc.).
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<a href="/mailinglist.html" title="Information about the Cactus mailing lists.">Mailing Lists</a></li>

<li class="menuItem">
<a href="/faq.html" title="Questions frequently asked (and sometimes answered)">FAQ</a></li>

<li class="menuItem">
<a href="/license.html" title="The Cactus License." class="currentPage">License</a></li>

</ul>
</li>

<li class="menu">Documentation<ul>
<li class="menuItem">
<a href="/getting_started.html" title="Gentle introduction to get you up to speed with Cactus.">Getting Started</a></li>

<li class="menuItem">
<a href="/how_it_works.html" title="High level view of the inner workings of Cactus.">How It Works</a></li>

<li class="menuItem">
<a href="/writing/howto_testcase.html" title="Introduction to writing Cactus-based unit tests.">Writing Tests</a></li>

<li class="menuItem">
<a href="/integration/index.html" title="Information on the various methods of running tests with Cactus.">Running Tests</a></li>

<li class="menuItem">
<a href="/participating/index.html" title="Information on participating in the development of Cactus.">Participating</a></li>

</ul>
</li>
<li class="menu">Miscellaneous</li>

<li class="menuItem">
<a href="/cactusname.html" title="Some background information about how Cactus got its name.">Why the Name?</a>
</li>

<li class="menuItem">
<a href="/mock_vs_cactus.html" title="Discussion of in-container testing as compared to using a mock objects approach.">Mock vs Container</a>
</li>

<li class="menuItem">
<a href="/testedon.html" title="A list of containers that Cactus was tested on for each release.">Tested On...</a>
</li>

<li class="menuItem">
<a href="/resources/index.html" title="Links to Cactus related resources.">Resources</a>
</li>

<li class="menuItem">
</li>

<li class="menuItem">
<a href="/sitemap.html" title="List of all site resources.">Sitemap</a>
</li>

<li class="menu">Translations</li>

<li class="menuItem">
<a target="korean" href="http://jakarta.apache-korea.org/cactus/index.html">Korean</a>
</li>

<li class="menuItem">
<a target="japanese" href="http://www.ingrid.org/jajakarta/cactus/">Japanese</a>
</li>
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That's all there is to it!
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# to point to the bsd43 include files.
SYSTEM_HEADER_DIR = /bsd43/usr/include

# Suppress building libgcc1.a, since the MIPS compiler port is complete
# and does not need anything from libgcc1.a.
LIBGCC1 =
CROSS_LIBGCC1 =
# Exactly the same as t-mips-gas, except we must define SYSTEM_HEADER_DIR
# to point to the bsd43 include files.
SYSTEM_HEADER_DIR = /bsd43/usr/include

# Suppress building libgcc1.a, since the MIPS compiler port is complete
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**************************************************************************/

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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.)
@end enumerate

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
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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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the scope of this License.

@item
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:

@enumerate a
@item
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,

@item
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,

@item
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.)
@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 operating system on which the executable runs, unless that component itself accompanies the executable.

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

```
Gnomovision version 69, Copyright (C) 19{yy} {name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c'
for details.
```

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

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

{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
```

@var{name of author}
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@ifset lgpl-appendix
@appendix GNU LIBRARY GENERAL PUBLIC LICENSE
@end ifset

@ifclear lgpl-appendix
@unnumbered GNU LIBRARY GENERAL PUBLIC LICENSE
@end ifclear
@center Version 2, June 1991

@display
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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.]
@end display

@unnumberedsec Preamble

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

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
`Source code` for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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The modified work must itself be a software library.

@item
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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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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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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.

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

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

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

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

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

- 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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@enumerate
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DAMAGES.
@end enumerate

@ifex
@end iftex
@ifinfo
@end ifinfo
@page
@end unnumberedsec

How to Apply These Terms to Your New Libraries

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everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
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To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

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MA 02139, USA.
@end smallexample

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

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

That's all there is to it!

\input texinfo
\@setfilename license.info

\@ifinfo
\@format
START-INFO-DIR-ENTRY
* COPYING: (license).
 The GNU General Public License
END-INFO-DIR-ENTRY
\@end format
\@end ifinfo

\@settite GPL
\@iftex
\@headings doubleafter
\@setchapternewpage off
\@end iftex
\@finalout
\@node Top, , (dir), (dir)
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\@include gpl.texinfo
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Version 2, June 1991

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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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...)

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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
=20
-------------------------------------

Nathan Neulinger EMail: nneul@um...
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 their applications are also GPL-2 which imo is just wrong. it isn't the place of the library to dictate to application writes what license they should be using. 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
>
> 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 their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> > library to dictact to application writes what license they should
> be using.
> > thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

Attaches: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:

> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

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

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

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

yes. go for it. thanks++

-a

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

Attachments: Message as HTML

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

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

-mike

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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-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxptr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D31
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.13])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> > --------- Forwarded message ---------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alecm@crypto.dircon.co.uk
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

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

Happy now? :-)

-a

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

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

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

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216
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

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

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

My apologies for not chiming in in anything resembling a reasonable
timeframe.
I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

-mike
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

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

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

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

------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
------------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

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

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

-------------------------------------
From alemc@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
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] (heloo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1LcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B710CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFE6E69F@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: alemc@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> > ---------- Forwarded message ----------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alemc@crypto.dircon.co.uk
> > > Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

1.136 cronie 1.4.4 :15.el6_7.1

1.136.1 Available under license :

/*
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 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
*@(#)bitstring.h	8.1 (Berkeley) 7/19/93
*/
1.137 crontabs 1.10 :33.el6

1.137.1 Available under license:

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above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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

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

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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NO WARRANTY

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16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library 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 Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; 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.

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

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

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

That's all there is to it!

1.141 curl 7.19.7 :52.el6
1.141.1 Available under license:

License Mixing with apps, libcurl and Third Party Libraries

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html
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GnuTLS  http://www.gnu...
(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal http://www.pdc.kth.se/heimdal/

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS http://www.gnu.org/software/gss/

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL.
[4] = MPL - Mozilla Public License:
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1.142 curl 7.47.0
1.142.1 Available under license :
License Mixing with apps, libcurl and Third Party Libraries

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html
Uses an MIT (or Modified BSD)-style license that is as liberal as possible.

OpenSSL https://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using another TLS library.

GnuTLS http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

WolfSSL https://www.wolfssl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license or a proprietary license. If this is a problem for you, consider using another TLS library.

NSS https://developer.mozilla.org/en-US/docs/Mozilla/Projects/NSS

(May be used for SSL/TLS support) Is covered by the MPL[4] license, the GPL[1] license and the LGPL[3] license. You may choose to license the code under MPL terms, GPL terms, or LGPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

axTLS http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

mbedTLS https://tls.mbed.org/

(May be used for SSL/TLS support) Uses the GPL[1] license or a proprietary license. If this is a problem for you, consider using another TLS library.

BoringSSL https://boringssl.googlesource.com/

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.
libressl http://www.libressl.org/

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.zlib.net/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal http://www.h5l.org

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS https://www.gnu.org/software/gss/

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

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1.143 curl 7.28.0

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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib    http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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TH sasl_getsimple_t "10 July 2001" SASL "SASL man pages"

.SH NAME
sasl_getsimple_t  - The SASL callback for username/authname/realm

/* sample-server.c -- sample SASL server
 * Rob Earhart
 */

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 * Rob Earhart
 * $Id: sample-client.c,v 1.31 2004/10/26 11:14:33 mel Exp $
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1.162 doc-ready 1.0.3

1.163 dojo Toolkit 1.6.1

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#!/bin/sh

find . -type f ! -name \*~ \! -exec grep -q Begin-Header \{{}\} \; -print \| grep -v ^./build

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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

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That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image::$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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1.171 e2fsprogs 1.41.9

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Theodore Ts'o
23-June-2007

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

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

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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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
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<signature of Ty Coon>, 1 April 1989  
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#
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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Whether this is true is especially significant if the work can be
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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
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b) Accompany the work with a written offer, valid for at
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For an executable, the required form of the "work that uses the
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# Originally written by Per Bothner <per@bothner.com>.
# Please send patches to <config-patches@gnu.org>. Submit a context
# diff and a properly formatted ChangeLog entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit build system type.
/

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*/

1.201 gawk 3.1.7 :10.el6_7.3

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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Whether this is true is especially significant if the work can be
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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
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functions (ten lines or less in length), then the use of the object
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Library will still fall under Section 6.)

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

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

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* m4/ax_func_which_gethostbyname_r.m4

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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:
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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(agc@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.)

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

@heading TERMS AND CONDITIONS

@enumerate 0
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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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

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

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

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

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

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

@example
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.

@end enumerate

A separable portion of the object code, whose source code is excluded
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Version 3.1, 31 March 2009

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are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

@item
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.

@item
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:

@enumerate a
@item
The modified work must itself be a software library.

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

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

@item
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.)

@end enumerate

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.

@item
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.

@item
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.

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

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

When a ``work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

@item
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.

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

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

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

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

@item
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:

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

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `copyright' line and a pointer to where the full notice is found.

@example
@example
one line to give the library's name and an idea of what it does.
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

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

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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@example
@example
\begin{verbatim}
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@end example

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notice like this when it starts in an interactive mode:

@example
@example
\begin{verbatim}
\texttt{\texttt{program}} Copyright (C) \texttt{name of author}
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\texttt{This is free software, and you are welcome to redistribute it}
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@end example

The hypothetical commands @samp{show w} and @samp{show c} should show
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program's commands might be different; for a GUI interface, you would
use an "about box".

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@c man end

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

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

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

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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

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

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

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

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

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
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@appendixsubsec Preamble

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license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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authorized party saying it may be distributed under the terms of this
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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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1. 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.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs
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@item
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@item
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@end enumerate

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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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@enumerate a
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<one line to give the program's name and a brief idea of what it does.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989 
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Public License instead of this License.

1.207 gdk-pixbuf2 2.24.1 :6.el6_7
1.207.1 Available under license :

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

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

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

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

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

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

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
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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
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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.

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

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

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

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

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

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

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

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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
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@c ispell-local-pdict: "ispell-dict"
@c End:

1.230 hal 0.5.14 :14.el6
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</head>
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</ul>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
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<li class="dropdown-menu-role="menu"
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<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>
</li>
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</div>

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</div>
<div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
<img src="/images/SupportApache-small.png" style="height: 150px; width: 150px; margin-top: 5px; margin-bottom: 5px;">
</a>
</div>
<div class="col-md-3 col-sm-4 col-xs-6">
<div class="input-group style="margin-bottom: 5px;">
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  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
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  s.parentNode.insertBefore(gcse, s);
})();
</script>
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</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
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1.249 httpcore 4.3.1

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1.265 jackson-core-asl 1.9.2

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Jackson is a high-performance, Free/Open Source JSON processing library.
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1.268 jackson-databind 2.9.5

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### 1.272 jackson-mapper-asl 1.9.2

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package java.lang;

import java.io.BufferedInputStream;
import java.io.BufferedOutputStream;
import java.io.ByteArrayInputStream;
import java.io.FileDescriptor;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.util.Arrays;
import java.util.Locale;
import java.util.concurrent.Executors;
import java.util.concurrent.Executor;
import java.util.concurrent.ThreadFactory;
import java.security.AccessController;
import static java.security.AccessController.doPrivileged;
import java.security.PrivilegedAction;
import java.security.PrivilegedActionException;
import java.security.PrivilegedExceptionAction;

/**
 * java.lang.Process subclass in the UNIX environment.
 *
 * @author Mario Wolczko and Ross Knippel.
 * @author Konstantin Kladko (ported to Bsd)
 * @author Martin Buchholz
 */
final class UNIXProcess extends Process {
    private static final sun.misc.JavaIOFileDescriptorAccess fdAccess
        = sun.misc.SharedSecrets.getJavaIOFileDescriptorAccess();

    private final int pid;
    private int exitcode;
    private boolean hasExited;
    private /* final */ OutputStream stdin;
    private /* final */ InputStream stdout;
    private /* final */ InputStream stderr;
    private static enum LaunchMechanism {

/*
 * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 * or visit www.oracle.com if you need additional information or have any
 * questions.
 */
FORK(1),
POSIX_SPAWN(2);

private int value;
LaunchMechanism(int x) { value = x; }
};

/* On BSD, the default is to spawn */
private static final LaunchMechanism launchMechanism;
private static byte[] helperpath;

private static byte[] toCString(String s) {
    if (s == null)
        return null;
    byte[] bytes = s.getBytes();
    byte[] result = new byte[bytes.length + 1];
    System.arraycopy(bytes, 0,
                    result, 0,
                    bytes.length);
    result[result.length-1] = (byte)0;
    return result;
}

static {
    launchMechanism = AccessController.doPrivileged(
        new PrivilegedAction<LaunchMechanism>()
    {
        public LaunchMechanism run() {
            String javahome = System.getProperty("java.home");
            helperpath = toCString(javahome + "/lib/jspawnhelper");
            String s = System.getProperty(
"jdk.lang.Process.launchMechanism", "posix_spawn");
            try {
                return LaunchMechanism.valueOf(s.toUpperCase(Locale.ENGLISH));
            } catch (IllegalArgumentException e) {
                throw new Error(s + " is not a supported " +
                    "process launch mechanism on this platform.");
            }
        }
    });
}

/* this is for the reaping thread */
private native int waitForProcessExit(int pid);

/**
* Create a process. Depending on the mode flag, this is done by
* one of the following mechanisms.
* - fork(2) and exec(2)
* - posix_spawn(2)
*
* @param fds an array of three file descriptors.
*     Indexes 0, 1, and 2 correspond to standard input,
*     standard output and standard error, respectively. On
*     input, a value of -1 means to create a pipe to connect
*     child and parent processes. On output, a value which
*     is not -1 is the parent pipe fd corresponding to the
*     pipe which has been created. An element of this array
*     is -1 on input if and only if it is &lt;em&gt;not&lt;/em&gt; -1 on
*     output.
* @return the pid of the subprocess
*/

private native int forkAndExec(int mode, byte[] helperpath,
                              byte[] prog,
                              byte[] argBlock, int argc,
                              byte[] envBlock, int envc,
                              byte[] dir,
                              int[] fds,
                              boolean redirectErrorStream)
    throws IOException;

/**
 * The thread factory used to create "process reaper" daemon threads.
 */

private static class ProcessReaperThreadFactory implements ThreadFactory {
    private final static ThreadGroup group = getRootThreadGroup();

    private static ThreadGroup getRootThreadGroup() {
        return doPrivileged(new PrivilegedAction<ThreadGroup>() {
            public ThreadGroup run() {
                ThreadGroup root = Thread.currentThread().getThreadGroup();
                while (root.getParent() != null)
                    root = root.getParent();
                return root;
            }
        });
    }

    public Thread newThread(Runnable grimReaper) {
        // Our thread stack requirement is quite modest.
        Thread t = new Thread(group, grimReaper, "process reaper", 32768);
        t.setDaemon(true);
        // A small attempt (probably futile) to avoid priority inversion
        t.setPriority(Thread.MAX_PRIORITY);
        return t;
    }
/**
 * The thread pool of "process reaper" daemon threads.
 */
private static final Executor processReaperExecutor =
doPrivileged(new PrivilegedAction<Executor>() {
    public Executor run() {
        return Executors.newCachedThreadPool
            (new ProcessReaperThreadFactory());
    }
});

UNIXProcess(final byte[] prog,
    final byte[] argBlock, final int argc,
    final byte[] envBlock, final int envc,
    final byte[] dir,
    final int[] fds,
    final boolean redirectErrorStream)
throws IOException {

    pid = forkAndExec(launchMechanism.value,
        helperpath,
        prog,
        argBlock, argc,
        envBlock, envc,
        dir,
        fds,
        redirectErrorStream);

    try {
        doPrivileged(new PrivilegedExceptionAction<Void>() {
            public Void run() throws IOException {
                initStreams(fds);
                return null;
            }
        });
    } catch (PrivilegedActionException ex) {
        throw (IOException) ex.getException();
    }
}

static FileDescriptor newFileDescriptor(int fd) {
    FileDescriptor fileDescriptor = new FileDescriptor();
    fdAccess.set(fileDescriptor, fd);
    return fileDescriptor;
}

void initStreams(int[] fds) throws IOException {
    
}
stdin = (fds[0] == -1) ?
    ProcessBuilder.NullOutputStream.INSTANCE :
    new ProcessPipeOutputStream(fds[0]);

stdout = (fds[1] == -1) ?
    ProcessBuilder.NullInputStream.INSTANCE :
    new ProcessPipeInputStream(fds[1]);

stderr = (fds[2] == -1) ?
    ProcessBuilder.NullInputStream.INSTANCE :
    new ProcessPipeInputStream(fds[2]);

processReaperExecutor.execute(new Runnable() {
    public void run() {
        int exitcode = waitForProcessExit(pid);
        UNIXProcess.this.processExited(exitcode);
    }
});

void processExited(int exitcode) {
    synchronized (this) {
        this.exitcode = exitcode;
        hasExited = true;
        notifyAll();
    }
}

if (stdout instanceof ProcessPipeInputStream)
    ((ProcessPipeInputStream) stdout).processExited();

if (stderr instanceof ProcessPipeInputStream)
    ((ProcessPipeInputStream) stderr).processExited();

if (stdin instanceof ProcessPipeOutputStream)
    ((ProcessPipeOutputStream) stdin).processExited();

public OutputStream getOutputStream() {
    return stdin;
}

public InputStream getInputStream() {
    return stdout;
}

public InputStream getErrorStream() {
    return stderr;
}
public synchronized int waitFor() throws InterruptedException {
    while (!hasExited) {
        wait();
    }
    return exitcode;
}

public synchronized int exitValue() {
    if (!hasExited) {
        throw new IllegalThreadStateException("process hasn't exited");
    }
    return exitcode;
}

private static native void destroyProcess(int pid);
public void destroy() {
    // There is a risk that pid will be recycled, causing us to
    // kill the wrong process! So we only terminate processes
    // that appear to still be running. Even with this check,
    // there is an unavoidable race condition here, but the window
    // is very small, and OSes try hard to not recycle pids too
    // soon, so this is quite safe.
    synchronized (this) {
        if (!hasExited)
            destroyProcess(pid);
    }
    try { stdin.close(); } catch (IOException ignored) { }
    try { stdout.close(); } catch (IOException ignored) { }
    try { stderr.close(); } catch (IOException ignored) { }
}

private static native void init();

static {
    init();
}

/**
 * A buffered input stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
 * the process exits, via the processExited hook.
 *
 * This is tricky because we do not want the user-level InputStream to be
 * closed until the user invokes close(), and we need to continue to be
 * able to read any buffered data lingering in the OS pipe buffer.
 */
static class ProcessPipeInputStream extends BufferedInputStream {
    private final Object closeLock = new Object();
ProcessPipeInputStream(int fd) {
    super(new FileInputStream(new FileDescriptor(fd)));
}

private static byte[] drainInputStream(InputStream in)
    throws IOException {
    int n = 0;
    int j;
    byte[] a = null;
    while ((j = in.available()) > 0) {
        a = (a == null) ? new byte[j] : Arrays.copyOf(a, n + j);
        n += in.read(a, n, j);
    }
    return (a == null || n == a.length) ? a : Arrays.copyOf(a, n);
}

/** Called by the process reaper thread when the process exits. */
    synchronized void processExited() {
        synchronized (closeLock) {
            try {
                InputStream in = this.in;
                // this stream is closed if and only if: in == null
                if (in != null) {
                    byte[] stragglers = drainInputStream(in);
                    in.close();
                    this.in = (stragglers == null) ?
                        ProcessBuilder.NullInputStream.INSTANCE :
                        new ByteArrayInputStream(stragglers);
                }
            } catch (IOException ignored) {}  
        }
    }

    @Override
    public void close() throws IOException {
        // BufferedInputStream#close() is not synchronized unlike most other methods.
        // Synchronizing helps avoid race with processExited().
        synchronized (closeLock) {
            super.close();
        }
    }

    /**
     * A buffered output stream for a subprocess pipe file descriptor
     * that allows the underlying file descriptor to be reclaimed when
     * the process exits, via the processExited hook.
     */
static class ProcessPipeOutputStream extends BufferedOutputStream {
    ProcessPipeOutputStream(int fd) {
        super(new FileOutputStream(newFileDescriptor(fd)));
    }

    /** Called by the process reaper thread when the process exits. */
    synchronized void processExited() {
        OutputStream out = this.out;
        if (out != null) {
            try {
                out.close();
            } catch (IOException ignored) {
                // We know of no reason to get an IOException, but if
                // we do, there's nothing else to do but carry on.
            }
            this.out = ProcessBuilder.NullOutputStream.INSTANCE;
        }
    }
}

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# questions.
#
# Version
# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.plain.latin-1=DejaVu LGC Sans
sansserif.plain.japanese-x0208=Sazanami Gothic
sansserif.plain.korean=Baekmuk Gulim
sansserif.plain.chinese-big5=AR PL ShanHeiSun Uni
sansserif.plain.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.bold.latin-1=DejaVu LGC Sans Bold
sansserif.bold.japanese-x0208=Sazanami Gothic
sansserif.bold.korean=Baekmuk Gulim
sansserif.bold.chinese-big5=AR PL ShanHeiSun Uni
sansserif.bold.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.italic.latin-1=DejaVu LGC Sans Oblique
sansserif.italic.japanese-x0208=Sazanami Gothic
sansserif.italic.korean=Baekmuk Gulim
sansserif.italic.chinese-big5=AR PL ShanHeiSun Uni
sansserif.italic.chinese-gb18030=AR PL ShanHeiSun Uni
monospaced.italic.chinese-gb18030=AR PL ShanHeiSun Uni

monospaced.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
monospaced.bolditalic.japanese-x0208=Sazanami Gothic
monospaced.bolditalic.korean=Baekmuk Gulim
monospaced.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
monospaced.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.plain.latin-1=DejaVu LGC Sans Mono
dialoginput.plain.japanese-x0208=Sazanami Gothic
dialoginput.plain.korean=Baekmuk Gulim
dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold
dialoginput.bold.japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_BOLD=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_OblIQUE=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_BOLD_OblIQUE=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_SansMono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_SansMono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_SansMono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_SansMono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf
filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

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#
SUNWprivate_1.1 {
  global:
    Java_ja__nio_MappedByteBuffer_force0;
    Java_ja__nio_MappedByteBuffer_isLoaded0;
    Java_ja__nio_MappedByteBuffer_load0;
    Java_sun_nio_ch_DatagramChannelImpl_disconnect0;
    Java_sun_nio_ch_DatagramChannelImpl_initIDs;
    Java_sun_nio_ch_DatagramChannelImpl_receive0;
    Java_sun_nio_ch_DatagramChannelImpl_send0;
    Java_sun_nio_ch_DatagramDispatcher_read0;
    Java_sun_nio_ch_DatagramDispatcher_readv0;
    Java_sun_nio_ch_DatagramDispatcher_write0;
    Java_sun_nio_ch_DatagramDispatcher_writev0;
    Java_sun_nio_ch_FileChannelImpl_close0;
    Java_sun_nio_ch_FileChannelImpl_initIDs;
    Java_sun_nio_ch_FileChannelImpl_map0;
    Java_sun_nio_ch_FileChannelImpl_position0;
    Java_sun_nio_ch_FileChannelImpl_transferTo0;
    Java_sun_nio_ch_FileChannelImpl_unmap0;
    Java_sun_nio_ch_FileDispatcherImpl_close0;
    Java_sun_nio_ch_FileDispatcherImpl_closeIntFD;
    Java_sun_nio_ch_FileDispatcherImpl_force0;
    Java_sun_nio_ch_FileDispatcherImpl_init;
    Java_sun_nio_ch_FileDispatcherImpl_lock0;
    Java_sun_nio_ch_FileDispatcherImpl_preClose0;
    Java_sun_nio_ch_FileDispatcherImpl_pread0;
    Java_sun_nio_ch_FileDispatcherImpl_pwrite0;
    Java_sun_nio_ch_FileDispatcherImpl_read0;
    Java_sun_nio_ch_FileDispatcherImpl_readv0;
    Java_sun_nio_ch_FileDispatcherImpl_release0;
    Java_sun_nio_ch_FileDispatcherImpl_size0;
Java_sun_nio_ch_Net_blockOrUnblock6;
Java_sun_nio_ch_Net_setInterface4;
Java_sun_nio_ch_Net_getInterface4;
Java_sun_nio_ch_Net_setInterface6;
Java_sun_nio_ch_Net_getInterface6;
Java_sun_nio_ch_Net_shutdown;
    Java_sun_nio_ch_Net_isExclusiveBindAvailable;
    Java_sun_nio_ch_PollArrayWrapper_interrupt;
    Java_sun_nio_ch_PollArrayWrapper_poll0;
    Java_sun_nio_ch_ServerSocketChannelImpl_accept0;
    Java_sun_nio_ch_ServerSocketChannelImpl_initIDs;
    Java_sun_nio_ch_SocketChannelImpl_checkConnect;
Java_sun_nio_ch_SocketChannelImpl_sendOutOfBandData;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_accept0;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_initIDs;
Java_sun_nio_ch_UnixAsynchronousSocketChannelImpl_checkConnect;
Java_sun_nio_fs_BsdNativeDispatcher_initIDs;
Java_sun_nio_fs_BsdNativeDispatcher_getfsstat;
Java_sun_nio_fs_BsdNativeDispatcher_fsstatEntry;
Java_sun_nio_fs_BsdNativeDispatcher_endfsstat;
Java_sun_nio_fs_UnixNativeDispatcher_init;
Java_sun_nio_fs_UnixNativeDispatcher_getcwd;
Java_sun_nio_fs_UnixNativeDispatcher_strerror;
Java_sun_nio_fs_UnixNativeDispatcher_dup;
Java_sun_nio_fs_UnixNativeDispatcher_access0;
Java_sun_nio_fs_UnixNativeDispatcher_stat0;
Java_sun_nio_fs_UnixNativeDispatcher_lstat0;
Java_sun_nio_fs_UnixNativeDispatcher_fstat;
Java_sun_nio_fs_UnixNativeDispatcher_fstatat0;
Java_sun_nio_fs_UnixNativeDispatcher_chmod0;
Java_sun_nio_fs_UnixNativeDispatcher_fchmod;
Java_sun_nio_fs_UnixNativeDispatcher_chown0;
Java_sun_nio_fs_UnixNativeDispatcher_lchown0;
Java_sun_nio_fs_UnixNativeDispatcher_fchown;
Java_sun_nio_fs_UnixNativeDispatcher_utimes0;
Java_sun_nio_fs_UnixNativeDispatcher_futimes;
Java_sun_nio_fs_UnixNativeDispatcher_open0;
Java_sun_nio_fs_UnixNativeDispatcher_fopen0;
Java_sun_nio_fs_UnixNativeDispatcher_fclose;
Java_sun_nio_fs_UnixNativeDispatcher_fclose;
Java_sun_nio_fs_UnixNativeDispatcher_opendir0;
Java_sun_nio_fs_UnixNativeDispatcher_fopendir;
Java_sun_nio_fs_UnixNativeDispatcher_readdir;
Java_sun_nio_fs_UnixNativeDispatcher_closendir;
Java_sun_nio_fs_UnixNativeDispatcher_link0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_unlink0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_unlinkat0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_rename0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_renameat0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_mkdir0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_rmdir0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_symlink0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_readlink0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_realpath0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_statvfs0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_pathconf0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_fpathconf;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_mknod0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_getpwuid;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_getgrgid;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_getpwnam0;
Java\_sun\_nio\_fs\_UnixNativeDispatcher\_getgrnam0;
Java\_sun\_nio\_fs\_UnixCopyFile\_transfer;
handleSocketError;

local:
  *
};
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# questions.
# Define public interface.

SUNWprivate_1.1 {
  global:
    Java_sun_tools_attach_BsdVirtualMachine_checkPermissions;
    Java_sun_tools_attach_BsdVirtualMachine_close;
    Java_sun_tools_attach_BsdVirtualMachine_connect;
    Java_sun_tools_attach_BsdVirtualMachine_open;
    Java_sun_tools_attach_BsdVirtualMachine_sendQuitTo;
    Java_sun_tools_attach_BsdVirtualMachine_socket;
    Java_sun_tools_attach_BsdVirtualMachine_read;
    Java_sun_tools_attach_BsdVirtualMachine_write;
    Java_sun_tools_attach_BsdVirtualMachine_createAttachFile;
  local:
    *
};

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platform=bsd
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# or visit www.oracle.com if you need additional information or have any
# questions.
#
# Define public interface for libawt.so on Bsd.
# Bsd port does not use mawt, all public symbols are in libawt.so

SUNWprivate_1.1 {
  global:
  JNI_OnLoad;

  Java_java_awt_CheckboxMenuItem_initIDs;
  Java_java_awt_Color_initIDs;
  Java_java_awt_FontMetrics_initIDs;
  Java_java_awt_image_BufferedImage_initIDs;
  Java_sun_awt_image_DataBufferNative_getElem;
  Java_sun_awt_image_DataBufferNative_setElem;
  Java_java_awt_image_ColorModel_initIDs;
  Java_java_awt_image_ComponentSampleModel_initIDs;
  Java_java_awt_image_IndexColorModel_initIDs;
  Java_java_awt_image_Kernel_initIDs;
  Java_java_awt_image_Raster_initIDs;
  Java_java_awt_image_SampleModel_initIDs;
  Java_java_awt_Label_initIDs;
  Java_java_awt_MenuBar_initIDs;
  Java_java_awt_ScrollPaneAdjustable_initIDs;
  Java_java_awt_Toolkit_initIDs;
Java_open_src_used_in_finesse_12.0(1)

Java_open_src_used_in_finesse_12.0(1)

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Java_open_src_used_in_finesse_12.0(1)
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_java2d_SurfaceData_initIDs;
Java_sun_java2d_SurfaceData_isOpaqueGray;
Java_sun_java2d_Disposer_initIDs;
Java_sun_java2d_DefaultDisposerRecord_invokeNativeDispose;
Java_sun_java2d_loops_BlitBg_BlitBg;
Java_sun_java2d_loops_Blit_Blit;
Java_sun_java2d_loops_ScaledBlit_Scale;
Java_sun_java2d_loops_DrawLine_DrawLine;
Java_sun_java2d_loops_DrawPolygons_DrawPolygons;
Java_sun_java2d_loops_DrawRect_DrawRect;
Java_sun_java2d_loops_FillRect_FillRect;
Java_sun_java2d_loops_FillSpans_FillSpans;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_initIDs;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_registerNativeLoops;
Java_sun_java2d_loops_MaskBlit_MaskBlit;
Java_sun_java2d_loops_MaskFill_MaskFill;
Java_sun_java2d_loops_MaskFill_FillAAPgram;
Java_sun_java2d_loops_MaskFill_DrawAAPgram;
Java_sun_java2d_pipe_BufferedRenderPipe_fillSpans;
Java_sun_java2d_pipe_SpanClipRenderer_initIDs;
sun_awt_image_GifImageDecoder_initIDs;

# libmawt entry points
SurfaceData_InitOps;
SurfaceData_ThrowInvalidPipeException;
Region_GetBounds;
Region_GetInfo;
Region_StartIteration;
Region_CountIterationRects;
Region_NextIteration;
Region_EndIteration;
GrPrim_CompGetXorInfo;
GrPrim_CompGetAlphaInfo;

img_makePalette;
initInverseGrayLut;
make_dither_arrays;
make_uns_ordered_dither_array;

# variables exported to libmawt
std_img_oda_red;
std_img_oda_blue;
std_img_oda_green;
std_odas_computed;
g_CMpDataID;
colorValueID;
jvm;

# CDE private entry point
  # This is in awt_LoadLibrary.c and falls through to libmawt.
  # Evidently CDE needs this for backward compatibility.
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
  # This is in awt_LoadLibrary.c and falls through to libmawt.
  # Evidently plugin needs this for backward compatibility.
getAwtLockFunctions;
getAwtData;
getAwtDisplay;

# libfontmanager entry points
AWTIsHeadless;
GrPrim_Sg2dGetCompInfo;
GrPrim_Sg2dGetClip;
GetNativePrim;
SurfaceData_IntersectionBounds;
SurfaceData_GetOps;
Disposer_AddRecord;
GrPrim_Sg2dGetEaRGB;
GrPrim_Sg2dGetPixel;
GrPrim_Sg2dGetLCDTextContrast;

#Java_sun_awt_motif_MComponentPeer_restoreFocus;
Java_sun_awt_DefaultMouseInfoPeer_fillPointWithCoords;
Java_sun_awt_DefaultMouseInfoPeer_isWindowUnderMouse;
Java_java_awt_AWTEvent_nativeSetSource;
Java_java_awt_Checkbox_initIDs;
Java_java_awt_Component_initIDs;
Java_java_awt_Dialog_initIDs;
Java_java_awt_KeyboardFocusManager_initIDs;
Java_java_awt_MComponentPeer_create;
Java_java_awt_Menu_initIDs;
Java_java_awt_MenuComponent_initIDs;
Java_java_awt_MenuItem_initIDs;
Java_java_awt_Scrollbar_initIDs;
Java_java_awt_ScrollPane_initIDs;
Java_java_awt_TextArea_initIDs;
Java_sun_awt_FontDescriptor_initIDs;
#Java_sun_awt_motif_MButtonPeer_create;
#Java_sun_awt_motif_MButtonPeer_setLabel;
#Java_sun_awt_motif_MCanvasPeer_create;
#Java_sun_awt_motif_MCanvasPeer_initIDs;
#Java_sun_awt_motif_MCanvasPeer_resetTargetGC;
#Java_sun_awt_motif_MCheckboxMenuItemPeer_pSetState;
#Java_sun_awt_motif_MCheckboxPeer_create;
#Java_sun_awt_motif_MCheckboxPeer_setCheckboxGroup;
#Java_sun_awt_motif_MCheckboxPeer_setLabel;
#Java_sun_awt_motif_MCheckboxPeer_pSetState;
#Java_sun_awt_motif_MCheckboxPeer_pGetState;
#Java_sun_awt_motif_MChoicePeer_addItem;
#Java_sun_awt_motif_MChoicePeer_appendItems;
#Java_sun_awt_motif_MChoicePeer_create;
#Java_sun_awt_motif_MChoicePeer_setCheckboxGroup;
#Java_sun_awt_motif_MChoicePeer_setLabel;
#Java_sun_awt_motif_MChoicePeer_pSetState;
#Java_sun_awt_motif_MChoicePeer_pGetState;
#Java_sun_awt_motif_MChoicePeer_addItem;
#Java_sun_awt_motif_MChoicePeer_appendItems;
#Java_sun_awt_motif_MChoicePeer_create;
#Java_sun_awt_motif_MChoicePeer_pReshape;
#Java_sun_awt_motif_MChoicePeer_remove;
#Java_sun_awt_motif_MChoicePeer_removeAll;
#Java_sun_awt_motif_MChoicePeer_setBackground;
#Java_sun_awt_motif_MChoicePeer_pSelect;
#Java_sun_awt_motif_MChoicePeer_setFont;
#Java_sun_awt_motif_MChoicePeer_setForeground;
#Java_sun_awt_motif_MComponentPeer_addNativeDropTarget;
#Java_sun_awt_motif_MComponentPeer_createBackBuffer;
#Java_sun_awt_motif_MComponentPeer_destroyBackBuffer;
#Java_sun_awt_motif_MComponentPeer_getNativeColor;
#Java_sun_awt_motif_MComponentPeer_getWindow;
#Java_sun_awt_motif_MComponentPeer_pDisable;
#Java_sun_awt_motif_MComponentPeer_pDispose;
#Java_sun_awt_motif_MComponentPeer_pEnable;
#Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen;
#Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen2;
#Java_sun_awt_motif_MComponentPeer_pHide;
#Java_sun_awt_motif_MComponentPeer_pInitialize;
#Java_sun_awt_motif_MComponentPeer_pMakeCursorVisible;
#Java_sun_awt_motif_MComponentPeer_pReshape;
#Java_sun_awt_motif_MComponentPeer_pShow;
#Java_sun_awt_motif_MComponentPeer_removeNativeDropTarget;
#Java_sun_awt_motif_MComponentPeer_swapBuffers;
#Java_sun_awt_motif_MComponentPeer_pSetBackground;
#Java_sun_awt_motif_MComponentPeer_pSetFont;
    #Java_sun_awt_motif_MComponentPeer_processSynchronousLightweightTransfer;
    #Java_sun_awt_motif_MComponentPeer__1requestFocus;
#Java_sun_awt_motif_MCheckboxMenuItemPeer_getState;
#Java_sun_awt_motif_MComponentPeer_pSetForeground;
#Java_sun_awt_motif_MDragSourceContextPeer_startDrag;
#Java_sun_awt_motif_MDragSourceContextPeer_setNativeCursor;
#Java_sun_awt_motif_MDropTargetContextPeer_addTransfer;
#Java_sun_awt_motif_MDropTargetContextPeer_dropDone;
#Java_sun_awt_motif_MDropTargetContextPeer_startTransfer;
#Java_sun_awt_motif_X11DragSourceContextPeer_startDrag;
#Java_sun_awt_motif_X11DragSourceContextPeer_setNativeCursor;
#Java_sun_awt_motif_X11DropTargetContextPeer_sendResponse;
#Java_sun_awt_motif_X11DropTargetContextPeer_dropDone;
#Java_sun_awt_motif_X11DropTargetContextPeer_getData;
#Java_sun_awt_motif_MEmbeddedFramePeer_NEFcreate;
#Java_sun_awt_motif_MEmbeddedFramePeer_pShowImpl;
#Java_sun_awt_motif_MEmbeddedFramePeer_pReshapePrivate;
#Java_sun_awt_motif_MEmbeddedFramePeer_getBoundsPrivate;
#Java_sun_awt_motif_MFramePeer_pSetIconImage___3B_3I_3SII;
#Java_sun_awt_motif_MEmbeddedFramePeer_requestXEmbedFocus;
#Java_sun_awt_motif_MEmbeddedFramePeer_isXEmbedApplicationActive;
#Java_sun_awt_motif_MEmbeddedFramePeer_isXEmbedActive;
#Java_sun_awt_motif_MEmbeddedFrame_getWidget;
#Java_sun_awt_motif_MEmbeddedFrame_mapWidget;
#Java_sun_awt_motif_MFileDialogPeer_create;
#Java_sun_awt_motif_MFileDialogPeer_pDispose;
#Java_sun_awt_motif_MFileDialogPeer_pHide;
#Java_sun_awt_motif_MFileDialogPeer_pReshape;
#Java_sun_awt_motif_MFileDialogPeer_pShow;
#Java_sun_awt_motif_MFileDialogPeer_setFileEntry;
#Java_sun_awt_motif_MFileDialogPeer_create;
#Java_sun_awt_motif_MFileDialogPeer_pDispose;
#Java_sun_awt_motif_MGlobalCursorManager_cacheInit;
#Java_sun_awt_motif_MGlobalCursorManager_findComponentAt;
#Java_sun_awt_motif_MGlobalCursorManager_findHeavyweightUnderCursor;
#Java_sun_awt_motif_MGlobalCursorManager_getCursorPos;
#Java_sun_awt_motif_MGlobalCursorManager_getLocationOnScreen;
#Java_sun_awt_motif_MLabelPeer_create;
#Java_sun_awt_motif_MLabelPeer_setAlignment;
#Java_sun_awt_motif_MLabelPeer_setText;
#Java_sun_awt_motif_MListPeer_addItem;
#Java_sun_awt_motif_MListPeer_create;
#Java_sun_awt_motif_MListPeer_delItems;
#Java_sun_awt_motif_MListPeer_deselect;
#Java_sun_awt_motif_MListPeer_isSelected;
#Java_sun_awt_motif_MListPeer_makeVisible;
#Java_sun_awt_motif_MListPeer_select;
#Java_sun_awt_motif_MListPeer_setMultipleSelections;
#Java_sun_awt_motif_MMenuBarPeer_create;
#Java_sun_awt_motif_MMenuItemPeer_createMenuItem;
#Java_sun_awt_motif_MMenuItemPeer_pDisable;
#Java_sun_awt_motif_MMenuItemPeer_pDispose;
#Java_sun_awt_motif_MMenuItemPeer_pEnable;
#Java_sun_awt_motif_MMenuItemPeer_pSetLabel;
#Java_sun_awt_motif_MMenuPeer_createMenu;
#Java_sun_awt_motif_MMenuPeer_createSubMenu;
#Java_sun_awt_motif_MMenuPeer_pDispose;
#Java_sun_awt_motif_MPopupMenuPeer_createMenu;
#Java_sun_awt_motif_MPopupMenuPeer_pDispose;
#Java_sun_awt_motif_MPopupMenuPeer_pShow;
#Java_sun_awt_motif_MRobotPeer_getRGBPixelsImpl;
#Java_sun_awt_motif_MRobotPeer_keyPressImpl;
#Java_sun_awt_motif_MRobotPeer_keyReleaseImpl;
#Java_sun_awt_motif_MRobotPeer_mouseMoveImpl;
#Java_sun_awt_motif_MRobotPeer_mousePressImpl;
#Java_sun_awt_motif_MRobotPeer_mouseReleaseImpl;
#Java_sun_awt_motif_MRobotPeer_mouseWheelImpl;
#Java_sun_awt_motif_MRobotPeer_setup;
#Java_sun_awt_motif_MScrollbarPeer_create;
#Java_sun_awt_motif_MScrollbarPeer_setLineIncrement;
#Java_sun_awt_motif_MScrollbarPeer_setPageIncrement;
#Java_sun_awt_motif_MScrollbarPeer_pSetValues;
#Java_sun_awt_motif_MScrollbarPeer_create;
#Java_sun_awt_motif_MScrollbarPeer_getIncrement;
#Java_sun_awt_motif_MScrollbarPeer_pGetBlockIncrement;
#Java_sun_awt_motif_MScrollbarPeer_pGetScrollbarSpace;
#Java_sun_awt_motif_MScrollbarPeer_pGetShadow;
#Java_sun_awt_motif_MScrollbarPeer_plnsets;
#Java_sun_awt_motif_MScrollbarPeer_pSetIncrement;
#Java_sun_awt_motif_MScrollbarPeer_pSetScrollChild;
#Java_sun_awt_motif_MScrollbarPeer_setScrollPosition;
#Java_sun_awt_motif_MTextAreaPeer_initIDs;
#Java_sun_awt_motif_MTextAreaPeer_pCreate;
#Java_sun_awt_motif_MTextAreaPeer_getCaretPosition;
#Java_sun_awt_motif_MTextAreaPeer_getExtraHeight;
#Java_sun_awt_motif_MTextAreaPeer_getExtraWidth;
#Java_sun_awt_motif_MTextAreaPeer_getSelectionEnd;
#Java_sun_awt_motif_MTextAreaPeer_getSelectionStart;
#Java_sun_awt_motif_MTextAreaPeer_getText;
#Java_sun_awt_motif_MTextAreaPeer_pMakeCursorVisible;
#Java_sun_awt_motif_MTextAreaPeer_pSetEditable;
#Java_sun_awt_motif_MTextAreaPeer_pShow2;
#Java_sun_awt_motif_MTextAreaPeer_replaceRange;
#Java_sun_awt_motif_MTextAreaPeer_select;
#Java_sun_awt_motif_MTextAreaPeer_setCaretPosition;
#Java_sun_awt_motif_MTextAreaPeer_setFont;
#Java_sun_awt_motif_MTextAreaPeer_setInvInv;
#Java_sun_awt_motif_MTextAreaPeer_setText;
#Java_sun_awt_motif_MTextAreaPeer_setTextBackground;
#Java_sun_awt_motif_MTextFieldPeer_initIDs;
#Java_sun_awt_motif_MTextFieldPeer_pCreate;
#Java_sun_awt_motif_MTextFieldPeer_getCaretPosition;
#Java_sun_awt_motif_MTextFieldPeer_getSelectionEnd;
#Java_sun_awt_motif_MTextFieldPeer_getSelectionStart;
#Java_sun_awt_motif_MTextFieldPeer_getText;
#Java_sun_awt_motif_MTextFieldPeer_pInsertReplaceText;
#Java_sun_awt_motif_MTextFieldPeer_preDispose;
#Java_sun_awt_motif_MTextFieldPeer_pSetEditable;
#Java_sun_awt_motif_MTextFieldPeer_select;
#Java_sun_awt_motif_MTextFieldPeer_setCaretPosition;
#Java_sun_awt_motif_MTextFieldPeer_setEchoChar;
#Java_sun_awt_motif_MTextFieldPeer_setFont;
#Java_sun_awt_motif_MTextFieldPeer_setText;
Java_sun_awt_motif_MToolkit_beep;
Java_sun_awt_motif_MToolkit_getLockingKeyStateNative;
Java_sun_awt_motif_MToolkit_getMulticlickTime;
Java_sun_awt_motif_MToolkit_getNumMouseButtons;
Java_sun_awt_motif_MToolkit_getScreenHeight;
Java_sun_awt_motif_MToolkit_getScreenResolution;
Java_sun_awt_motif_MToolkit_getScreenWidth;
Java_sun_awt_motif_MToolkit_init;
Java_sun_awt_motif_MToolkit_isDynamicLayoutSupportedNative;
Java_sun_awt_motif_MToolkit_isFrameStateSupported;
Java_sun_awt_motif_MToolkit_loadSystemColors;
Java_sun_awt_motif_MToolkit_makeColorModel;
Java_sun_awt_motif_MToolkit_run;
Java_sun_awt_motif_MToolkit_sync;
Java_sun_awt_motif_MToolkit_isAlwaysOnTopSupported;
Java_sun_awt_motif_MWindowAttributes_initIDs;
#Java_sun_awt_motif_MWindowPeer_pDispose;
#Java_sun_awt_motif_MWindowPeer_pHide;
#Java_sun_awt_motif_MWindowPeer_pReshape;
#Java_sun_awt_motif_MWindowPeer_pSetTitle;
#Java_sun_awt_motif_MWindowPeer_pShow;
#Java_sun_awt_motif_MWindowPeer_pSetIMMOption;
#Java_sun_awt_motif_MWindowPeer_pSetMenuBar;
#Java_sun_awt_motif_MWindowPeer_pShowModal;
#Java_sun_awt_motif_MWindowPeer_removeTextComponentNative;
#Java_sun_awt_motif_MWindowPeer_setSaveUnder;
#Java_sun_awt_motif_MWindowPeer_setState;
#Java_sun_awt_motif_MWindowPeer_resetTargetGC;
#Java_sun_awt_motif_MWindowPeer_unregisterX11DropTarget;
#Java_sun_awt_motif_MWindowPeer_updateAlwaysOnTop;
　　Java_sun_awt_motif_MWindowPeer_addTextComponentNative;
　　Java_sun_awt_motif_MWindowPeer_getState;
　　Java_sun_awt_motif_MWindowPeer_pSetIMMOption;
　　Java_sun_awt_motif_MWindowPeer_pSetMenuBar;
　　Java_sun_awt_motif_MWindowPeer_pShowModal;
　　Java_sun_awt_motif_MWindowPeer_removeTextComponentNative;
　　Java_sun_awt_motif_MWindowPeer_setSaveUnder;
　　Java_sun_awt_motif_MWindowPeer_setState;
　　Java_sun_awt_motif_MWindowPeer_resetTargetGC;
　　Java_sun_awt_motif_MWindowPeer_registerX11DropTarget;
　　Java_sun_awt_motif_MWindowPeer_unregisterX11DropTarget;
　　Java_sun_awt_motif_MWindowPeer_updateAlwaysOnTop;
　　Java_sun_awt_motif_X11CustomCursor_cacheInit;
　　Java_sun_awt_motif_X11CustomCursor_createCursor;
　　Java_sun_awt_motif_X11CustomCursor_queryBestCursor;
　　Java_sun_awt_motif_X11FontMetrics_bytesWidth;
　　Java_sun_awt_motif_X11FontMetrics_getMFCharsWidth;
　　Java_sun_awt_motif_X11FontMetrics_init;
Java_java_awt_AWTEvent_initIDs;
Java_java_awt_Button_initIDs;
Java_java_awt_Container_initIDs;
Java_java_awt_Cursor_finalizeImpl;
Java_java_awt_Cursor_initIDs;
Java_java_awt_Event_initIDs;
Java_java_awt_event_InputEvent_initIDs;
Java_java_awt_event_KeyEvent_initIDs;
Java_java_awt_FileDialog_initIDs;
Java_java_awt_Frame_initIDs;
Java_java_awtInsets_initIDs;
Java_java_awt_TextField_initIDs;
Java_java_awt_Window_initIDs;

#Java_sun_awt_motif_MCheckboxPeer_getIndicatorSize;
#Java_sun_awt_motif_MCheckboxPeer_getSpacing;
#Java_sun_awt_motif_MChoicePeer_freeNativeData;
#Java_sun_awt_motif_MComponentPeer_getComponents_1NoClientCode;
#Java_sun_awt_motif_MComponentPeer_getParent_1NoClientCode;
#Java_sun_awt_motif_MComponentPeer_parentIDs;
#Java_sun_awt_motif_MComponentPeer_setTargetBackground;
#Java_sun_awt_motif_MDataTransferer_dragQueryFile;
#Java_sun_awt_motif_MDataTransferer_getAtomForTarget;
#Java_sun_awt_motif_MDataTransferer_getTargetNameForAtom;
#Java_sun_awt_motif_MFileDialogPeer_insertReplaceFileDialogText;
Java_sun_awt_motif_MFontPeer_initIDs;
#Java_sun_awt_motif_MListPeer_setBackground;
#Java_sun_awt_motif_MMenuBarPeer_initIDs;
#Java_sun_awt_motif_MMenuBarPeer_pDispose;
#Java_sun_awt_motif_MMenuPeer_parentIDs;
#Java_sun_awt_motif_MMenuPeer_pGetParent_1NoClientCode;
#Java_sun_awt_motif_MMenuPeer_pGetMenuItemIDs;
#Java_sun_awt_motif_MMenuPeer_pGetShortcut;
Java_sun_awt_motif_MPopupMenuItemParent_1NoClientCode;
#Java_sun_awt_motif_MScrollPanePeer_initIDs;
#Java_sun_awt_motif_MScrollBarPeer_initIDs;
#Java_sun_awt_motif_MTextAreaPeer_pSetCursor;
Java_sun_awt_motif_MToolkit_shutdown;
#Java_sun_awt_motif_MWindowPeer_initIDs;
#Java_sun_awt_motif_MWindowPeer_pCreate;
#Java_sun_awt_motif_MWindowPeer_wrapInSequenced;
Java_sun_awt_motif_X11FontMetrics_initIDs;
#Java_sun_awt_motif_X11InputMethod_initIDs;
Java_sun_awt_motif_X11OffScreenImage_updateBitmap;
Java_sun_awt_motif_MToolkitThreadBlockedHandler_enter;
Java_sun_awt_motif_MToolkitThreadBlockedHandler_exit;
Java_sun_awt_X11GraphicsConfig_init;
Java_sun_awt_X11GraphicsConfig_initIDs;
Java_sun_awt_X11GraphicsConfig_makeColorModel;
Java_sun_awt_X11GraphicsDevice_getConfigVisualId;
Java_sun_awt_X11PMBlitLoops_Blit;
Java_sun_awt_X11PMBlitLoops_nativeBlitBg;
Java_sun_awt_X11Renderer_devFillSpans;
Java_sun_awt_X11Renderer_doDrawArc;
Java_sun_awt_X11Renderer_doDrawLine;
Java_sun_awt_X11Renderer_doDrawOval;
Java_sun_awt_X11Renderer_doDrawPoly;
Java_sun_awt_X11Renderer_doDrawRect;
Java_sun_awt_X11Renderer_doDrawRoundRect;
Java_sun_awt_X11Renderer_doFillArc;
Java_sun_awt_X11Renderer_doFillOval;
Java_sun_awt_X11Renderer_doFillPoly;
Java_sun_awt_X11Renderer_doFillRect;
Java_sun_awt_X11Renderer_doFillRoundRect;
Java_sun_awt_X11Renderer_devCopyArea;
Java_sun_awt_X11SurfaceData_initIDs;
Java_sun_awt_X11SurfaceData_initOps;
Java_sun_awt_X11SurfaceData_initSurface;
Java_sun_awt_X11SurfaceData_isDgaAvailable;
Java_sun_awt_X11SurfaceData_setInvalid;
Java_sun_awt_X11SurfaceData_flushNativeSurface;
Java_sun_awt_motif_MEmbedCanvasPeer_initXEmbedServer;
Java_sun_awt_motif_MEmbedCanvasPeer_destroyXEmbedServer;
Java_sun_awt_motif_MEmbedCanvasPeer_isXEmbedActive;
Java_sun_awt_motif_MEmbedCanvasPeer_initDispatching;
Java_sun_awt_motif_MEmbedCanvasPeer_endDispatching;
Java_sun_awt_motif_MEmbedCanvasPeer_embedChild;
Java_sun_awt_motif_MEmbedCanvasPeer_childDestroyed;
Java_sun_awt_motif_MEmbedCanvasPeer_getEmbedPreferredSize;
Java_sun_awt_motif_MEmbedCanvasPeer_getEmbedMinimumSize;
Java_sun_awt_motif_MEmbedCanvasPeer_getClientBounds;
Java_sun_awt_motif_MEmbedCanvasPeer_notifyChildEmbedded;
Java_sun_awt_motif_MEmbedCanvasPeer_detachChild;
Java_sun_awt_motif_MEmbedCanvasPeer_forwardKeyEvent;
Java_sun_awt_motif_MEmbedCanvasPeer_getAWTKeyCodeForKeySym;
Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage__I;
Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage__IJJJ;
Java_sun_awt_motif_MEmbedCanvasPeer_getWindow;
Java_sun_awt_motif_MEmbedCanvasPeer_forwardEventToEmbedded;
Java_sun_awt_motif_GrabbedKey_initKeySymAndModifiers;
Java_sun_awt_motif_MEmbeddedFramePeer_traverseOut;
awt_display;
awt_lock;
awt_Lock;
awt_Unlock;
    awt_GetDrawingSurface;
    awt_FreeDrawingSurface;
    awt_GetComponent;

X11SurfaceData_GetOps;
getDefaultConfig;
    Java_sun_font_FontConfigManager_getFontConfig;
    Java_sun_font_FontConfigManager_getFontConfigAASettings;
Java_sun_awt_X11FontManager_getFontPathNative;
Java_sun_font_SunFontManager_populateFontFileNamemap;

# CDE private entry point
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
getAwtLockFunctions;
getAwtData;
getAwtDisplay;

# libfontmanager entry points
AWTIsHeadless;
AWTCountFonts;
    AWTLoadFont;
    AWTFreeFont;
    AWTFontMinByte1;
    AWTFontMaxByte1;
    AWTFontMinCharOrByte2;
    AWTFontMaxCharOrByte2;
    AWTFontDefaultChar;
    AWTFontPerChar;
    AWTFontMaxBounds;
    AWTFontTextExtents16;
    AWTFreeChar;
    AWTFontGenerateImage;
    AWTCharAdvance;
    AWTCharLBearing;
    AWTCharR Bearing;
    AWTCharAscent;
    AWTCharDescent;
    AWTDrawGlyphList;
    Accel GlyphCache_RemoveAllCellInfos;

local:
*;
}
import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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 */
import java.rmi.Remote;
public interface Legal extends Remote {}

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david@megginson.com
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#
#
# Definitions for Bsd.
#

# Default for COMPILER_WARNINGS_FATAL on Bsd (C & C++ compiler warnings)
ifndef COMPILER_WARNINGS_FATAL
    COMPILER_WARNINGS_FATAL=false
endif

# Bsd should use parallel compilation for best build times
ifndef COMPIL_APPROACH
    COMPIL_APPROACH = parallel
endif

# Indication that we are doing an incremental build.
#   This may trigger the creation of make depend files.
ifndef INCREMENTAL_BUILD
    INCREMENTAL_BUILD = false
endif

# FullPath just makes sure it never ends with a / and no duplicates
define FullPath
$(shell cd $1 2> $(DEV_NULL) && pwd)
endef

# OptFullPath: Absolute path name of a dir that might not initially exist.
define OptFullPath
$(shell if [ "$1" != "" -a -d "$1" ]; then (cd $1 && pwd); else echo "$1"; fi)
endef

# Location on system where jdk installs might be
USRJDKINSTANCES_PATH =$(PACKAGE_PATH)
# UNIXCOMMAND_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_UNIXCOMMAND_PATH)" "undefined"
    UNIXCOMMAND_PATH :=$(call PrefixPath,$(ALT_UNIXCOMMAND_PATH))
else
    UNIXCOMMAND_PATH = /bin/
endif

# USRBIN_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_USRBIN_PATH)" "undefined"
    USRBIN_PATH :=$(call PrefixPath,$(ALT_USRBIN_PATH))
else
    USRBIN_PATH = /usr/bin/
endif

# UNIXCCS_PATH: path to where the Solaris ported UNIX commands can be found
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_UNIXCCS_PATH)" "undefined"
    UNIXCCS_PATH :=$(call PrefixPath,$(ALT_UNIXCCS_PATH))
else
    UNIXCCS_PATH = /usr/ccs/bin/
endif

# SLASH_JAVA: location of all network accessible files
ifdef ALT_SLASH_JAVA
    SLASH_JAVA :=$(ALT_SLASH_JAVA)
else
    SLASH_JAVA := $(call DirExists,/java,/java,/NOT-SET)
endif

# JDK_DEVTOOLS_DIR: common path for all the java devtools
ifdef ALT_JDK_DEVTOOLS_DIR
    JDK_DEVTOOLS_DIR =$(ALT_JDK_DEVTOOLS_DIR)
else
    JDK_DEVTOOLS_DIR =$(SLASH_JAVA)/devtools
endif

# DEVTOOLS_PATH: for other tools required for building (such as zip, etc.)
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_DEVTOOLS_PATH)" "undefined"
    DEVTOOLS_PATH :=$(call PrefixPath,$(ALT_DEVTOOLS_PATH))
else
    DEVTOOLS_PATH =$(PACKAGE_PATH)/bin/
endif

# _BOOTDIR1: First choice for a Bootstrap JDK, previous released JDK.
# _BOOTDIR2: Second choice
ifndef ALT_BOOTDIR
 _BOOTDIR1 =$(SLASH_JAVA)/re/jdk$/PREVIOUS_JDK_VERSION)/archive/fcs/binaries/$PLATFORM-$ARCH
 _BOOTDIR2 =$(USRJDKINSTANCES_PATH)/jdk$PREVIOUS_JDK_VERSION
 endif

# Import JDK images allow for partial builds, components not built are
# imported (or copied from) these import areas when needed.

# BUILD_JDK_IMPORT_PATH: location of JDK install trees to import for
# multiple platforms, e.g. windows-i586, solaris-sparc, bsd-586, etc.
ifdef ALT_BUILD_JDK_IMPORT_PATH
 BUILD_JDK_IMPORT_PATH :=$(call FullPath,$(ALT_BUILD_JDK_IMPORT_PATH))
 else
 BUILD_JDK_IMPORT_PATH = $(PROMOTED_BUILD_BINARIES)
 endif
 BUILD_JDK_IMPORT_PATH:=$(call AltCheckValue,BUILD_JDK_IMPORT_PATH)

# JDK_IMPORT_PATH: location of JDK install tree (this version) to import
ifdef ALT_JDK_IMPORT_PATH
 JDK_IMPORT_PATH  :=$(call FullPath,$(ALT_JDK_IMPORT_PATH))
 else
 JDK_IMPORT_PATH   = $(BUILD_JDK_IMPORT_PATH)/$(PLATFORM)-$(ARCH)$(_JDK_IMPORT_VARIANT)
 endif
 JDK_IMPORT_PATH:=$(call AltCheckValue,JDK_IMPORT_PATH)

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#
# Makefile to specify compiler flags for programs and libraries
# targeted to BSD. Should not contain any rules.
#
# Warning: the following variables are overriden by Defs.gmk. Set
# values will be silently ignored:
#  CFLAGS       (set $(OTHER_CFLAGS) instead)
#  CPPFLAGS     (set $(OTHER_CPPFLAGS) instead)
#  CXXFLAGS     (set $(OTHER_CXXFLAGS) instead)
#  LDFLAGS      (set $(OTHER_LDFLAGS) instead)
#  LDLIBS       (set $(EXTRA_LIBS) instead)
#  LDLIBS_COMMON (set $(EXTRA_LIBS) instead)

# Get shared JDK settings
include $(BUILDDIR)/common/shared/Defs.gmk

ifndef PLATFORM_SRC
  PLATFORM_SRC = $(TOPDIR)/src/solaris
endif # PLATFORM_SRC

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glenrp at users.sourceforge.net
January 5, 2017
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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a [code java.io.FilePermission] object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * [code java.lang.RuntimePermission],
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the [code implies] method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     * @see Guard
     * @see GuardedObject
     * @see SecurityManager#checkPermission
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * { @code SecurityManager.checkPermission} method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     *
     * @param object the object being guarded (currently ignored).
     * @throws SecurityException
     *        if a security manager exists and its
     *        { @code checkPermission} method doesn't allow access.
     * @see Guard
     * @see GuardedObject
     * @see SecurityManager#checkPermission
     */
    public void checkGuard(Object object) throws SecurityException {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null) sm.checkPermission(this);
    }
}
public abstract boolean implies(Permission permission);

public abstract boolean equals(Object obj);

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 *<p>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 *
 * The {@code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @param permission the permission to check against.
 *
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

/**
 * Checks two Permission objects for equality.
 *<p>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 *
 * @param obj the object we are testing for equality with this object.
 *
 * @return true if both Permission objects are equivalent.
 */

/**
 * Returns the hash code value for this Permission object.
 *<p>
 * The required {@code hashCode} behavior for Permission Objects is
 * the following:
 *<ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 * { @code hashCode} method
 * must consistently return the same integer. This integer need not
 * remain consistent from one execution of an application to another
 * execution of the same application.
 *<li>If two Permission objects are equal according to the
 * { @code equals} method,
 * method, then calling the { @code hashCode} method on each of the
two Permission objects must produce the same integer result.

@return a hash code value for this object.

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a {@code FilePermission},
 * the name will be a pathname.
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 * both return
 * "read,write" when the { @code getActions } method is invoked.
 * @return the actions of this Permission.
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
* when the {code PermissionCollection.implies} method is called.
* If null is returned,
* then the caller of this method is free to store permissions of this
* type in any PermissionCollection they choose (one that uses a Hashtable,
* one that uses a Vector, etc).
* *
* @return a new PermissionCollection object for this type of Permission, or
* null if one is not defined.
*/

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
* Returns a string describing this Permission. The convention is to
* specify the class name, the permission name, and the actions in
* the following format: ('ClassName" name" actions"'), or
* 'Classname" name")' if actions list is null or empty.
* *
* @return information about this Permission.
*/

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + "" + name + "")";
    } else {
        return "(" + getClass().getName() + "" + name + "" + actions + ")";
    }
}

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* */
package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

 /**
 * Returns true if the object passed matches the permission represented
 * in this interface.
 *
 * @param another the Permission object to compare with.
 *
 * @return true if the Permission objects are equal, false otherwise
 */
public boolean equals(Object another);

 /**
 * Prints a string representation of this permission.
 *
 * @return the string representation of the permission.
 */
public String toString();

}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
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of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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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
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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.

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That's all there is to it!
1.280 java_cup 0.10k :5.el6

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

Preamble

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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

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

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

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

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

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,

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themselves, then this License, and its terms, do not apply to those

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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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In addition, mere aggregation of another work not based on the Library

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3. You may opt to apply the terms of the ordinary GNU General Public

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This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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copyright notice for the Library among them, as well as a reference
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
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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
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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
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1.1

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1.283 javacsv 2.0

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1.284 Javascript State Machine 2.2.0

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1.285 Javassist 3.20.0-GA

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// AttributesImpl.java - default implementation of Attributes.
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/**
* Default implementation of the Attributes interface.
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* 
* This class provides a default implementation of the SAX2 {@link org.xml.sax.Attributes Attributes} interface, with the addition of manipulators so that the list can be modified or reused.</p>
There are two typical uses of this class:

- to take a persistent snapshot of an Attributes object in a `startElement` event; or
- to construct or modify an Attributes object in a SAX2 driver or filter.

This class replaces the now-deprecated SAX1 `AttributeListImpl` class; in addition to supporting the updated Attributes interface rather than the deprecated `AttributeList` interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.

@since JAXB1.0
@since SAX 2.0
@author David Megginson
@version 2.0.1 (sax2r2)

NamespaceSupport.java - generic Namespace support for SAX.
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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
/* 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)
* 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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#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

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QLogic Linux qlge NIC Driver

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for merging the nxt2002 and nxt2004 modules into a
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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@smallexample
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
@end smallexample
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
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lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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1.353 krb5 1.10.3 :57.el6

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
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lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_creds.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_creds.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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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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threshold for this to be true is not precisely defined by law.

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

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

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1.364 libdrm 2.4.65 :2.el6
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# diff and a properly formatted ChangeLog entry.
#
# Configuration subroutine to validate and canonicalize a configuration type.
# Supply the specified configuration type as an argument.
# If it is invalid, we print an error message on stderr and exit with code 1.
# Otherwise, we print the canonical config type on stdout and succeed.

# This file is supposed to be the same for all GNU packages
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1.366 libevent 1.4.13 :4.el6
1.366.1 Available under license :

# generated automatically by aclocal 1.10.1 -* Autoconf -*

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m4_ifndef([AC_AUTOCONF_VERSION], [m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION])]\n m4_if(AC_AUTOCONF_VERSION, [2.63],,, [m4_warning([this file was generated for autoconf 2.63. 
You have another version of autoconf. It may work, but is not guaranteed to. 
If you have problems, you may need to regenerate the build system entirely. 
To do so, use the procedure documented by the package, typically 'autoreconf'].)])

# libtool.m4 - Configure libtool for the host system. -* Autoconf -*
# serial 52 AC_PROG_LIBTOOL

# AC_PROVIDE_IFELSE(MACRO-NAME, IF-PROVIDED, IF-NOT-PROVIDED)
# -----------------------------------------------------------
# If this macro is not defined by Autoconf, define it here.
m4_ifdef([AC_PROVIDE_IFELSE],
  [],
  [m4_define([AC_PROVIDE_IFELSE],
    [m4_ifdef([AC_PROVIDE_$1],
      [S2], [S3])]])

# AC_PROG_LIBTOOL
# ---------------
AC_DEFUN([AC_PROG_LIBTOOL],
  [AC_REQUIRE([AC_PROG_LIBTOOL])dnl
dnl If AC_PROG_CXX has already been expanded, run AC_LIBTOOL_CXX
dnl immediately, otherwise, hook it in at the end of AC_PROG_CXX.
AC_PROVIDE_IFELSE([AC_PROG_CXX],
  [AC_LIBTOOL_CXX],
  [define([AC_PROG_CXX], defn([AC_PROG_CXX])[AC_LIBTOOL_CXX ])])
dnl And a similar setup for Fortran 77 support
AC_PROVIDE_IFELSE([AC_PROG_F77],
  [AC_LIBTOOL_F77],
  [define([AC_PROG_F77], defn([AC_PROG_F77])[AC_LIBTOOL_F77 ])])

dnl Quote A][M_PROG_GCJ so that aclocal doesn't bring it in needlessly.
dnl If either AC_PROG_GCJ or A][M_PROG_GCJ have already been expanded, run
dnl AC_LIBTOOL_GCJ immediately, otherwise, hook it in at the end of both.
AC_PROVIDE_IFELSE([AC_PROG_GCJ],
  [AC_LIBTOOL_GCJ],
  [AC_PROVIDE_IFELSE([A][M_PROG_GCJ], [AC_LIBTOOL_GCJ],
    [AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],
      [AC_LIBTOOL_GCJ],
      [ifdef([AC_PROG_GCJ],
        [define([AC_PROG_GCJ], defn([AC_PROG_GCJ])[AC_LIBTOOL_GCJ]]))
      ifdef([A][M_PROG_GCJ],
        [define([A][M_PROG_GCJ], defn([A][M_PROG_GCJ])[AC_LIBTOOL_GCJ]])
      ifdef([LT_AC_PROG_GCJ],
        [define([LT_AC_PROG_GCJ],
          defn([LT_AC_PROG_GCJ])[AC_LIBTOOL_GCJ]])])])
))# AC_PROG_LIBTOOL
# _AC_PROG_LIBTOOL
#
# ----------------
AC_DEFUN([_AC_PROG_LIBTOOL],
[AC_REQUIRE([AC_LIBTOOL_SETUP])dnl
AC_BEFORE([S0],[AC_LIBTOOL_CXX])dnl
AC_BEFORE([S0],[AC_LIBTOOL_F77])dnl
AC_BEFORE([S0],[AC_LIBTOOL_GCJ])dnl

# This can be used to rebuild libtool when needed
LIBTOOL_DEPS="$ac_aux_dir/ltmain.sh"

# Always use our own libtool.
LIBTOOL="$\$(SHELL) $(top_builddir)/libtool"
AC_SUBST(LIBTOOL)dnl

# Prevent multiple expansion
define([AC_PROG_LIBTOOL], [])
)

# AC_LIBTOOL_SETUP
#
# ----------------
AC_DEFUN([AC_LIBTOOL_SETUP],
[AC_PREREQ(2.50)]dnl
AC_REQUIRE([AC_ENABLE_SHARED])dnl
AC_REQUIRE([AC_ENABLE_STATIC])dnl
AC_REQUIRE([AC_ENABLE_FAST_INSTALL])dnl
AC_REQUIRE([AC_CANONICAL_HOST])dnl
AC_REQUIRE([AC_CANONICAL_BUILD])dnl
AC_REQUIRE([AC_PROG_CC])dnl
AC_REQUIRE([AC_PROG_LD])dnl
AC_REQUIRE([AC_PROG_LD_RELOAD_FLAG])dnl
AC_REQUIRE([AC_PROG_NM])dnl

AC_REQUIRE([AC_PROG_LN_S])dnl
AC_REQUIRE([AC_DEPLIBS_CHECK_METHOD])dnl

# Autoconf 2.13's AC_OBJEXT and AC_EXEEXT macros only works for C compilers!
AC_REQUIRE([AC_OBJEXT])dnl
AC_REQUIRE([AC_EXEEXT])dnl
dnl
AC_LIBTOOL_SYS_MAX_CMD_LEN
AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
AC_LIBTOOL_OBJDIR

AC_REQUIRE([LT_AC_SYS_COMPILER])dnl
_LT_AC_PROG_ECHO_BACKSLASH
case $host_os in
  aix3*)
    # AIX sometimes has problems with the GCC collect2 program. For some
    # reason, if we set the COLLECT_NAMES environment variable, the problems
    # vanish in a puff of smoke.
    if test "X$COLLECT_NAMES+set" != Xset; then
      COLLECT_NAMES=
      export COLLECT_NAMES
    fi
  ;;
esac

# Sed substitution that helps us do robust quoting. It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed='sed -e 1s/^X//'
[sed_quote_subst='s/\(["'\\\]/\1/g']

# Same as above, but do not quote variable references.
[double_quote_subst='s/\(["'\\\]/\1/g']

# Sed substitution to delay expansion of an escaped shell variable in a
# double_quote_subst'ed string.
delay_variable_subst='s/\\\\\$/\\\$/g'

# Sed substitution to avoid accidental globbing in evaled expressions
no_glob_subst='s/\*/\*/g'

# Constants:
rm="rm -f"

# Global variables:
default_ofile=libtool
can_build_shared=yes

# All known linkers require a `.a' archive for static linking (except MSVC,
# which needs `.lib').
libext=a
ltmain="$ac_aux_dir/ltmain.sh"
ofile="$default_ofile"
with_gnu_ld="$lt_cv_prog_gnu_ld"

AC_CHECK_TOOL(AR, ar, false)
AC_CHECK_TOOL(RANLIB, ranlib, :)
AC_CHECK_TOOL(STRIP, strip, :)

old_CC="$CC"
old_CFLAGS="$CFLAGS"
# Set sane defaults for various variables
test -z "$AR" && AR=ar
(test -z "$AR_FLAGS" && AR_FLAGS=cru)
test -z "$AS" && AS=as
(test -z "$CC" && CC=cc)
(test -z "$LTCC" && LTCC=\$CC)
(test -z "$SLTCC" && LTCC=\$CC)
(test -z "$SLTCFLAGS" && LTCC=\$CC)
(test -z "$DLLTOOL" && DLLTOOL=\$dlltool)
(test -z "$SLD" && LD=ld)
(test -z "$LN_S" && LN_S="ln -s")
(test -z "$SMAGIC_CMD" && MAGIC_CMD=file)
(test -z "$SNM" && NM=nm)
(test -z "$SED" && SED=sed)
(test -z "$OBJDUMP" && OBJDUMP=objdump)
(test -z "$SRANLIB" && RANLIB=:
(test -z "$STRIP" && STRIP=:
(test -z "$ac_objext" && ac_objext=o)

# Determine commands to create old-style static archives.
old_archive_cmds="$AR $AR_FLAGS $oldlib$oldobjs"
old_postinstall_cmds="chmod 644 $oldlib"
old_postuninstall_cmds=

if test -n "$SRANLIB"; then
case $host_os in
  openbsd*)
    old_postinstall_cmds="$old_postinstall_cmds $SRANLIB -t $oldlib"
    ;
    *)
    old_postinstall_cmds="$old_postinstall_cmds $SRANLIB \$oldlib"
    ;
  esac
  old_archive_cmds="$old_archive_cmds $SRANLIB \$oldlib"
fi

_LT_CC_BASENAME([\$compiler])

# Only perform the check for file, if the check method requires it
case $deplibs_check_method in
  file_magic*)
  if test "$file_magic_cmd" = "$MAGIC_CMD"; then
    AC_PATH_MAGIC
  fi
  ;
  esac

_LT_REQUIRED_DARWIN_CHECKS
AC_PROVIDE_IFELSE([AC_LIBTOOL_DLOPEN], enable_dlopen=yes, enable_dlopen=no)
AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
enable_win32_dll=yes, enable_win32_dll=no)

AC_ARG_ENABLE([libtool-lock],
  [AC_HELP_STRING([--disable-libtool-lock],
  [avoid locking (might break parallel builds)]))]
  test "$enable_libtool_lock" != xno && enable_libtool_lock=yes

AC_ARG_WITH([pic],
  [AC_HELP_STRING([--with-pic],
  [try to use only PIC/non-PIC objects @<:@default=use both@:>@]),
  [pic_mode="$withval"],
  [pic_mode=default])
  test -z "$pic_mode" && pic_mode=default

# Use C for the default configuration in the libtool script
tagname=
AC_LIBTOOL_LANG_C_CONFIG
_LT_AC_TAGCONFIG
})# AC_LIBTOOL_SETUP

# _LT_AC_SYS_COMPILER
# ---------------
AC_DEFUN([_LT_AC_SYS_COMPILER],
[AC_REQUIRE([AC_PROG_CC])dnl

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC
})# _LT_AC_SYS_COMPILER

# _LT_CC_BASENAME(CC)
# -------------------
# Calculate cc_basename.  Skip known compiler wrappers and cross-prefix.
AC_DEFUN([_LT_CC_BASENAME(CC)],
[for cc_temp in $1""; do
 case $cc_temp in
   compile | *[\[]compile | ccache | *[\[]ccache ) ;;
   distcc | *[\[]distcc | purify | *[\[]purify ) ;;
   \.* ) ;;


*) break;;
esac
done
cc_basename='$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%$host_alias-%%"'
}

# _LT_COMPILER_BOILERPLATE
# ------------------------
# Check for compiler boilerplate output or warnings with
# the simple compiler test code.
AC_DEFUN([_LT_COMPILER_BOILERPLATE],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
ac_outfile=conftest.$ac_objext
echo "$lt_simple_compile_test_code" >conftest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
廖_compiler_boilerplate='cat conftest.err'
$rm conftest*
])# _LT_COMPILER_BOILERPLATE

# _LT_LINKER_BOILERPLATE
# ----------------------
# Check for linker boilerplate output or warnings with
# the simple link test code.
AC_DEFUN([_LT_LINKER_BOILERPLATE],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
ac_outfile=conftest.$ac_objext
echo "$lt_simple_link_test_code" >conftest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
廖_linker_boilerplate='cat conftest.err'
$rm -r conftest*
])# _LT_LINKER_BOILERPLATE

# _LT_REQUIRED_DARWIN_CHECKS
# --------------------------
# Check for some things on darwin
AC_DEFUN([_LT_REQUIRED_DARWIN_CHECKS],
case $host_os in
  rhapsody* | darwin*)
  AC_CHECK_TOOL([DSYMUTIL], [dsymutil], [:])
  AC_CHECK_TOOL([NMEDIT], [nmedit], [:])
  AC_CACHE_CHECK([for -single_module linker flag],[lt_cv_apple_cc_single_mod],
    [lt_cv_apple_cc_single_mod=no
      if test -z "$[LT_MULTI_MODULE]"; then
        # By default we will add the -single_module flag. You can override
        # by either setting the environment variable LT_MULTI_MODULE

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# non-empty at configure time, or by adding -multi_module to the # link flags.
echo "int foo(void){return 1;}" > conftest.c
$LTC $LTCFLAGS $LDFLAGS -o libconftest.dylib \
-dynamiclib ${wl}-single_module conftest.c
if test -f libconftest.dylib; then
   lt_cv_apple_cc_single_mod=yes
   rm -rf libconftest.dylib*
fi
rm conftest.c
fi)

AC_CACHE_CHECK([for -exported_symbols_list linker flag],
   [lt_cv_ld_exported_symbols_list],
   [lt_cv_ld_exported_symbols_list=no
   save_LDFLAGS=$LDFLAGS
echo "_main" > conftest.sym
LDFLAGS="$LDFLAGS -Wl,-exported_symbols_list,conftest.sym"
AC_LINK_IFELSE([AC_LANG_PROGRAM([],[])],
   [lt_cv_ld_exported_symbols_list=yes],
   [lt_cv_ld_exported_symbols_list=no])
LDFLAGS="$save_LDFLAGS"
])
case $host_os in
   rhapsody* | darwin1.[[0123]])
      _lt_dar_allow_undefined=${wl}-undefined ${wl}suppress' ;;
   darwin1.*)
      _lt_dar_allow_undefined=${wl}-flat_namespace ${wl}-undefined ${wl}suppress' ;;
   darwin*)
      # if running on 10.5 or later, the deployment target defaults
      # to the OS version, if on x86, and 10.4, the deployment
      # target defaults to 10.4. Don't you love it?
      case ${MACOSX_DEPLOYMENT_TARGET-10.0},$host in
         10.0,*86*-darwin8*|10.0,*-darwin[[91]]*)
            _lt_dar_allow_undefined=${wl}-undefined ${wl}dynamic_lookup' ;;
         10.][[012]])*)
            _lt_dar_allow_undefined=${wl}-flat_namespace ${wl}-undefined ${wl}suppress' ;;
         10.*)
            _lt_dar_allow_undefined=${wl}-undefined ${wl}dynamic_lookup' ;;
      esac
      ;;
esac
if test "$lt_cv_apple_cc_single_mod" = "yes"; then
   _lt_dar_single_mod=$single_module'
fi
if test "$lt_cv_ld_exported_symbols_list" = "yes"; then
   _lt_dar_export_syms=" ${wl}-exported_symbols_list,$output_objdir/${libname}-symbols.expsym"
else
   _lt_dar_export_syms="$NMEDIT -s $output_objdir/${libname}-symbols.expsym $\{lib\}"

if test "$DSYMUTIL" != ":"; then
  _lt_dsymutil="-DSYMUTIL \$lib \;"
else
  _lt_dsymutil=
  fi
fi
esac
}

# _LT_AC_SYS_LIBPATH_AIX
# ----------------------
# Links a minimal program and checks the executable
# for the system default hardcoded library path. In most cases,
# this is /usr/lib:/lib, but when the MPI compilers are used
# the location of the communication and MPI libs are included too.
# If we don't find anything, use the default library path according
# to the aix ld manual.
AC_DEFUN([_LT_AC_SYS_LIBPATH_AIX],
  [AC_REQUIRE([LT_AC_PROG_SED]) dnl
    AC_LINK_IFELSE(AC_LANG_PROGRAM,[
      lt_aix_libpath_sed='
        /Import File Strings/[^/]/
        /^/0{ '/
          s/^/0 *(.*)$/
            p
        }'
      aix_libpath='dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e "$lt_aix_libpath_sed"'
      # Check for a 64-bit object if we didn't find anything.
      if test -z "$aix_libpath"; then
        aix_libpath='dump -HX64 conftest$ac_exeext 2>/dev/null | $SED -n -e "$lt_aix_libpath_sed"'
      fi;][])
  if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi
])# _LT_AC_SYS_LIBPATH_AIX

# _LT_AC_SHELL_INIT(ARG)
# ----------------------
AC_DEFUN([_LT_AC_SHELL_INIT],
  [ifdef([AC_DIVERSION_NOTICE],
    [AC_DIVERT_PUSH(AC_DIVERSION_NOTICE)],
    [AC_DIVERT_PUSH(NOTICE)]) $1
    AC_DIVERT_POP
  ])# _LT_AC_SHELL_INIT
# _LT_AC_PROG_ECHO_BACKSLASH
# --------------------------
# Add some code to the start of the generated configure script which
# will find an echo command which doesn't interpret backslashes.
AC_DEFUN([_LT_AC_PROG_ECHO_BACKSLASH],
[_LT_AC_SHELL_INIT([
# Check that we are running under the correct shell.
SHELL=${CONFIG_SHELL-/bin/sh}

case X$ECHO in
X*--fallback-echo)  
  # Remove one level of quotation (which was required for Make).
  ECHO='echo "$ECHO" | sed 's,\\[$]\\[$]0,[$]0,'''
  esac
  echo=${ECHO-echo}
  if test "X$[1]" = X--no-reexec; then
    # Discard the --no-reexec flag, and continue.
    shift
    elif test "X$[1]" = X--fallback-echo; then
      # Avoid inline document here, it may be left over
      : 
      elif test "X'($echo 't') 2>/dev/null' = 'X't' ; then
        # Yippee, $echo works!
        : 
      else
        # Restart under the correct shell.
        exec $SHELL "[$0" --no-reexec $[1+"[$@"]"
      fi
    if test "X$[1]" = X--fallback-echo; then
      # used as fallback echo
      shift
cat <EOF
[1]EOF
EOF
exit 0
fi

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

if test -z "$ECHO"; then
  if test "X$[echo_test_string+set]" != Xset; then
    # find a string as large as possible, as long as the shell can cope with it
    for cmd in 'sed 50q "[$0]"' 'sed 20q "[$0]"' 'sed 10q "[$0]"' 'sed 2q "[$0]"' 'echo test'; do
      if test "$ECHO" "$cmd"; then
        echo "$cmd"
        break
      fi
    done
  fi
fi

if (echo_test_string='eval $cmd') 2>/dev/null &&
  echo_test_string='eval $cmd' &&
  (test "X$echo_test_string" = "X$echo_test_string") 2>/dev/null
then
  break
fi
done
fi

if test "X'(echo \t') 2>/dev/null" = 'X\t' &&
  echo_testing_string=('echo "$echo_test_string"') 2>/dev/null' &&
  test "X$echo_testing_string" = "X$echo_test_string"; then
  :
else
  # The Solaris, AIX, and Digital Unix default echo programs unquote
  # backslashes. This makes it impossible to quote backslashes using
  # echo "$something" | sed 's/\\/\\/g'
  #
  # So, first we look for a working echo in the user's PATH.

  lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
  for dir in $PATH /usr/ucb; do
    IFS="$lt_save_ifs"
    if (test -f $dir/echo || test -f $dir/echo$ac_exeext) &&
      test "X'($dir/echo \t') 2>/dev/null" = 'X\t' &&
      echo_testing_string=('($dir/echo "$echo_test_string")') 2>/dev/null' &&
      test "X$echo_testing_string" = "X$echo_test_string"; then
      echo=$dir/echo
      break
    fi
  done
  IFS="$lt_save_ifs"
  if test "X$echo" = Xecho; then
    # We didn't find a better echo, so look for alternatives.
    if test "X'(print -r \t') 2>/dev/null" = 'X\t' &&
      echo_testing_string=('(print -r "$echo_test_string")') 2>/dev/null' &&
      test "X$echo_testing_string" = "X$echo_test_string"; then
      # This shell has a builtin print -r that does the trick.
      echo='print -r'
    elif (test -f /bin/ksh || test -f /bin/ksh$ac_exeext) &&
      test "X$CONFIG_SHELL" =! X/bin/ksh; then
      # If we have ksh, try running configure again with it.
      ORIGINAL_CONFIG_SHELL=$CONFIG_SHELL
      export ORIGINAL_CONFIG_SHELL
      CONFIG_SHELL=/bin/ksh
      export CONFIG_SHELL
    fi
  fi
exec $CONFIG_SHELL "[$]0" --no-reexec \{1+"[$]@"\} else
  # Try using printf.
  echo='printf \\%s\\n' if test "X$(echo '\\t') 2>/dev/null" = 'X\\t' &&
  echo_testing_string='(echo "$echo_test_string") 2>/dev/null' &&
  test "X$echo_testing_string" = "X$echo_test_string"; then
    # Cool, printf works
    :
    elif echo_testing_string='($ORIGINAL_CONFIG_SHELL "[$]0" --fallback-echo '\\t') 2>/dev/null' &&
      test "X$echo_testing_string" = "X$echo_test_string"; then
      CONFIG_SHELL=$ORIGINAL_CONFIG_SHELL
      export CONFIG_SHELL
      SHELL="$CONFIG_SHELL"
      export SHELL
      echo="$CONFIG_SHELL [\$]0 --fallback-echo"
      elif echo_testing_string='($CONFIG_SHELL "[$]0" --fallback-echo '\\t') 2>/dev/null' &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
        echo="$CONFIG_SHELL [\$]0 --fallback-echo"
        else
          # maybe with a smaller string...
          prev=:
          for cmd in 'echo test' 'sed 2q \\"[\$]0\"' 'sed 10q \\"[\$]0\"' 'sed 20q \\"[\$]0\"' 'sed 50q \\"[\$]0\"'; do
            if (test "X$echo_test_string" = "X`eval $cmd`") 2>/dev/null
              break
            fi
            prev=`eval $prev`
          done
          if test "$prev" != 'sed 50q "[\$]0"'; then
            echo_test_string='eval $prev'
            export echo_test_string
            exec $(ORIGINAL_CONFIG_SHELL-$(CONFIG_SHELL=/bin/sh)) "[\$]0" \{1+"[\$]@"\}
          else
            # Oops. We lost completely, so just stick with echo.
            echo=echo
          fi
          fi
          fi
          fi
          fi
# Copy echo and quote the copy suitably for passing to libtool from
# the Makefile, instead of quoting the original, which is used later.
ECHO=$echo
if test "X$ECHO" = "X$CONFIG_SHELL [$]\$0 --fallback-echo"; then
  ECHO="$CONFIG_SHELL \\$[$]\$0 --fallback-echo"
fi

AC_SUBST(ECHO)
}

# _LT_AC_PROG_ECHO_BACKSLASH

# _LT_AC_LOCK
# ---------
AC_DEFUN([_LT_AC_LOCK],
[AC_ARG_ENABLE([libtool-lock],
  [AC_HELP_STRING([--disable-libtool-lock],
  [avoid locking (might break parallel builds)])])]
test "x$enable_libtool_lock" != xno & enable_libtool_lock=yes

# Some flags need to be propagated to the compiler or linker for good
# libtool support.
case $HOST in
  ia64-[^-hpux]*)
    # Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
    if AC_TRY_EVAL(ac_compile); then
      case '/usr/bin/file conftest.$ac_objext' in
        *ELF-32*)
          HPUX_IA64_MODE="32"
        ;;
        *ELF-64*)
          HPUX_IA64_MODE="64"
        ;;
        esac
      fi
    rm -rf conftest*
    ;;
  *-*[^-irix6]*)
    # Find out which ABI we are using.
echo ['#]line __oline__ "configure" > conftest.$ac_ext
    if AC_TRY_EVAL(ac_compile); then
      if test "$lt_cv_prog_gnu_ld" = yes; then
        case '/usr/bin/file conftest.$ac_objext' in
          *32-bit*)
            LD="$[LD-ld] -melf32bsmip"
        ;;
      fi
    fi
fi
*N32*)
LD="${LD-ld} -melf32bmipn32"
;;
*64-bit*)
LD="${LD-ld} -melf64bmip"
;
esac
else
case '/usr/bin/file conftest.$ac_objext' in
  *32-bit*)
    LD="${LD-ld} -32"
    ;;
  *N32*)
    LD="${LD-ld} -n32"
    ;;
  *64-bit*)
    LD="${LD-ld} -64"
    ;;
esac
fi
fi
rm -rf conftest*
;;

x86_64-*kfreebsd*-gnu|x86_64-*linux*|ppc*-linux*|powerpc*-linux*| s390*-linux*|sparc*-linux*)
  # Find out which ABI we are using.
  echo 'int i;' > conftest.$ac_ext
  if AC_TRY_EVAL(ac_compile); then
    case '/usr/bin/file conftest.o' in
      *32-bit*)
        case $host in
          x86_64-*kfreebsd*-gnu)
            LD="${LD-ld} -m elf_i386_fbsd"
            ;;
          x86_64-*linux*)
            LD="${LD-ld} -m elf_i386"
            ;;
          ppc64-*powerpc64-*linux*)
            LD="${LD-ld} -m elf32ppclinux"
            ;;
          s390x-*linux*)
            LD="${LD-ld} -m elf_s390"
            ;;
          sparc64-*linux*)
            LD="${LD-ld} -m elf32_sparc"
            ;;
esac
  esac
case $host in
  x86_64-*kfreebsd-gnu*)
    LD="${LD-ld} -m elf_x86_64_fbsd"
  ;;
  x86_64-*linux*)
    LD="${LD-ld} -m elf_x86_64"
  ;;
  ppc*-*linux*|powerpc*-*linux*)
    LD="${LD-ld} -m elf64ppc"
  ;;
  s390*-*linux*)
    LD="${LD-ld} -m elf64_s390"
  ;;
  sparc*-*linux*)
    LD="${LD-ld} -m elf64_sparc"
  ;;
  esac
  esac
fi
rm -rf conftest*
;;

*-*-sco3.2v5*)
# On SCO OpenServer 5, we need -belf to get full-featured binaries.
SAVE_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS -belf"
AC_CACHE_CHECK([whether the C compiler needs -belf], lt_cv_cc_needs_belf, [AC_LANG_PUSH(C)
  AC_TRY_LINK([], [], [lt_cv_cc_needs_belf=yes], [lt_cv_cc_needs_belf=no])
  AC_LANG_POP])
if test x"$lt_cv_cc_needs_belf" != x"yes"; then
  # this is probably gcc 2.8.0, egcs 1.0 or newer; no need for -belf
  CFLAGS="SSAVE_CFLAGS"
fi
;;

sparc*-*solaris*)
# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
  case '/usr/bin/file conftest.o' in
    *64-bit*)
    case $lt_cv_prog_gnu_ld in
      yes*) LD="${LD-ld} -m elf64_sparc" ;;
    *)
      if ${LD-ld} -64 -r -o conftest2.o conftest.o >/dev/null 2>&1; then

LD="${LD-ld} -64"
fi
;;
esac
;;
esac
fi
rm -rf conftest*
;;

AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
[*-.*-cygwin* | *-.*-mingw* | *-.*-pw32*)
AC_CHECK_TOOL(DLLTOOL, dlltool, false)
AC_CHECK_TOOL(AS, as, false)
AC_CHECK_TOOL(OBJDUMP, objdump, false)
;;
}
}
esac

need_locks="$enable_libtool_lock"

)# _LT_AC_LOCK

# AC_LIBTOOL_COMPILER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS, # [OUTPUT-FILE], [ACTION-SUCCESS], [ACTION-FAILURE])
# ----------------------------------------------------------------
# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_COMPILER_OPTION],
[AC_REQUIRE([LT_AC_PROG_SED])
AC_CACHE_CHECK([$1], [[$2],
[$2=no
ifelse([$4], , [ac_outfile=conftest.$ac_objext], [ac_outfile=$4])
echo "$lt_simple_compile_test_code" > conftest.$ac_ext
lt_compiler_flag="$3"
# Insert the option either (1) after the last *FLAGS variable, or
# (2) before a word containing "conftest.", or (3) at the end.
# Note that $ac_compile itself does not contain backslashes and begins
# with a dollar sign (not a hyphen), so the echo should work correctly.
# The option is referenced via a variable to avoid confusing sed.
lt_compile='echo "$ac_compile" | $SED 
-e's:.*FLAGS\{0,1\} :$lt_compiler_flag ;; t\n-e's: [^\]*confest\.: $lt_compiler_flag&;& t\n-e's:$: $lt_compiler_flag:" 
(eval echo "\"$as_me:__oline__: $lt_compile\"") >&AS_MESSAGE_LOG_FD
(eval "$lt_compile" 2>conftest.err)
ac_status=$?
cat conftest.err >&AS_MESSAGE_LOG_FD
if test x"[$\]$2" = xyes; then
  ifelse([5], . :, [5])
else
  ifelse([6], . :, [6])
fi
if test x"[$]\$2" = xyes; then
  ifelse([5], . :, [5])
else
  ifelse([6], . :, [6])
fi

# AC_LIBTOOL_LINKER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS, [ACTION-SUCCESS], [ACTION-FAILURE])
# -----------------------------------------------------------
# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_LINKER_OPTION],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_CACHE_CHECK([1], [2],
[$2=no

save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $3"
echo "$lt_simple_link_test_code" > conftest.$ac_ext
if (eval $ac_link 2>conftest.err) && test -s conftest$ac_exeext; then
  # The linker can only warn and ignore the option if not recognized
  # So say no if there are warnings
  if test -s conftest.err; then
    # Append any errors to the config.log.
    cat conftest.err 1>&&AS_MESSAGE_LOG_FD
  else
    $2=yes
  fi
else
  $2=yes
fi
$rm -r conftest*
LDFLAGS="$save_LDFLAGS"
"
if test x"[$1]" = xyes; then
  ifelse([4], . ; , [4])
else
  ifelse([5], . ; , [5])
fi
)\# AC_LIBTOOL_LINKER_OPTION

# AC_LIBTOOL_SYS_MAX_CMD_LEN
# --------------------------
AC_DEFUN([AC_LIBTOOL_SYS_MAX_CMD_LEN],
[# find the maximum length of command line arguments
AC_MSG_CHECKING([the maximum length of command line arguments])
AC_CACHE_VAL([lt_cv_sys_max_cmd_len], [dnl
  i=0
  teststring="ABCD"

case $build_os in
  msdosdgpp*)
    # On DJGPP, this test can blow up pretty badly due to problems in libc
    # (any single argument exceeding 2000 bytes causes a buffer overrun
    # during glob expansion). Even if it were fixed, the result of this
    # check would be larger than it should be.
    lt_cv_sys_max_cmd_len=12288;  # 12K is about right
    ;;
  gnu*)
    # Under GNU Hurd, this test is not required because there is
    # no limit to the length of command line arguments.
    # Libtool will interpret -1 as no limit whatsoever
    lt_cv_sys_max_cmd_len=-1;
    ;;
  cygwin* | mingw*)
    # On Win9x/ME, this test blows up -- it succeeds, but takes
    # about 5 minutes as the teststring grows exponentially.
    # Worse, since 9x/ME are not pre-emptively multitasking,
    # you end up with a "frozen" computer, even though with patience
    # the test eventually succeeds (with a max line length of 256k).
    # Instead, let's just punt: use the minimum linelength reported by
    # all of the supported platforms: 8192 (on NT/2K/XP).
    lt_cv_sys_max_cmd_len=8192;
    ;;
  amigaos*)
# On AmigaOS with pdksh, this test takes hours, literally.
# So we just punt and use a minimum line length of 8192.
lt_cv_sys_max_cmd_len=8192;

netbsd* | freebsd* | openbsd* | darwin* | dragonfly*)
# This has been around since 386BSD, at least. Likely further.
if test -x /sbin/sysctl; then
    lt_cv_sys_max_cmd_len='/sbin/sysctl -n kern.argmax'
elif test -x /usr/sbin/sysctl; then
    lt_cv_sys_max_cmd_len='/usr/sbin/sysctl -n kern.argmax'
else
    lt_cv_sys_max_cmd_len=65536 # usable default for all BSDs
fi
# And add a safety zone
lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len / 4'
lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len * 3'

interix*)
# We know the value 262144 and hardcode it with a safety zone (like BSD)
lcv Sys_max_cmd_len=196608

osf*)
# Dr. Hans Ekkehard Plesser reports seeing a kernel panic running configure
# due to this test when exec_disable_arg_limit is 1 on Tru64. It is not
# nice to cause kernel panics so lets avoid the loop below.
# First set a reasonable default.
lcvmcv Sys_max_cmd_len=16384
# if test -x /sbin/sysconfig; then
# case '/sbin/sysconfig -q proc exec_disable_arg_limit' in
#   *1*) lcvmcv Sys_max_cmd_len=-1 ;;
# esac
fi

sco3.2v5*)
lcvmcv Sys_max_cmd_len=102400

sysv5* | sco5v6* | sysv4.2uw2*)
kargmax='grep ARG_MAX /etc/conf/cf.d/stune 2>/dev/null'
if test -n "$kargmax"; then
    lt_cv_sys_max_cmd_len='echo $kargmax | sed 's/.*\[[[:space:]]\]//''
else
    lt_cv_sys_max_cmd_len=32768
fi

;
lt_cv_sys_max_cmd_len='(getconf ARG_MAX) 2> /dev/null'
if test -n "$lt_cv_sys_max_cmd_len"; then
    lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \* 4'
    lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \* 3'
else
    SHELL=${SHELL-$(/bin/sh)}
    while (test "X""SHELL [S]0 --fallback-echo "X"teststring" 2>/dev/null \
            = "XX"teststring") >>/dev/null 2>&1 &&
        new_result='expr "X"teststring" : "." 2>&1' &&
        lt_cv_sys_max_cmd_len=$new_result &&
        test $i != 17 # 1/2 MB should be enough
    do
        i='expr $i + 1'
        teststring=teststring$teststring
done
    teststring=
    # Add a significant safety factor because C++ compilers can tack on massive
    # amounts of additional arguments before passing them to the linker.
    # It appears as though 1/2 is a usable value.
    lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len / 2'
fi
if test -n $lt_cv_sys_max_cmd_len ; then
    AC_MSG_RESULT($lt_cv_sys_max_cmd_len)
else
    AC_MSG_RESULT(none)
fi
)# AC_LIBTOOL_SYS_MAX_CMD_LEN

# _LT_AC_CHECK_DLFCN
# ---------------
AC_DEFUN(_LT_AC_CHECK_DLFCN),
[AC_CHECK_HEADERS(dlfcn.h)]
)# _LT_AC_CHECK_DLFCN

# _LT_AC_TRY_DLOPEN_SELF (ACTION-IF-TRUE, ACTION-IF-TRUE-W-USCORE,
#                        ACTION-IF-FALSE, ACTION-IF-CROSS-COMPILING)
# -----------------------------
AC_DEFUN(_LT_AC_TRY_DLOPEN_SELF),
[AC_REQUIRE(_LT_AC_CHECK_DLFCN)]
dnl if test "$cross_compiling" = yes; then :
[$4]
else

lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2
lt_status=$lt_dlunknown
cat > conftest.$ac_ext <<EOF
[#line __oline__ "configure"
#include "confdefs.h"

#if HAVE_DLFCN_H
#include <dlfcn.h>
#endif

#include <stdio.h>

#ifdef RTLD_GLOBAL
# define LT_DLGLOBAL RTLD_GLOBAL
#else
# ifdef DL_GLOBAL
#  define LT_DLGLOBAL DL_GLOBAL
# else
#  define LT_DLGLOBAL 0
# endif
#endif

/* We may have to define LT_DLLAZY_OR_NOW in the command line if we
find out it does not work in some platform. */
#ifndef LT_DLLAZY_OR_NOW
#ifdef RTLD_LAZY
#define LT_DLLAZY_OR_NOW RTLD_LAZY
#else
# ifdef DL_LAZY
#  define LT_DLLAZY_OR_NOW DL_LAZY
# else
#  ifdef RTLD_NOW
#   define LT_DLLAZY_OR_NOW RTLD_NOW
# else
#   ifdef DL_NOW
#     define LT_DLLAZY_OR_NOW DL_NOW
# else
#     define LT_DLLAZY_OR_NOW 0
#   endif
#  endif
# else
#  define LT_DLLAZY_OR_NOW0
# endif
#endif
#endif
#endif
#endif

#ifdef __cplusplus
extern "C" void exit (int);
#endif
void fnord() { int i=42;}
int main()
{
    void *self = dlopen (0, LT_DLGLOBAL|LT_DLLAZY_OR_NOW);
    int status = $lt_dlunknown;

    if (self)
    {
        if (dlsym (self,"fnord")) status = $lt_dlno_uscore;
        else if (dlsym (self,"_fnord")) status = $lt_dllneed_uscore;
        /* dlclose (self); */
    }
    else
    
        puts (dlerror ());

    exit (status);
}

EOF

if AC_TRY_EVAL(ac_link) && test -s conftest${ac_exeext} 2>/dev/null; then

    ./conftest; exit; >&AS_MESSAGE_LOG_FD 2>/dev/null
lt_status=$?
    case x$lt_status in
        x$lt_dlno_uscore) $1 ;;
        x$lt_dllneed_uscore) $2 ;;
        x$lt_dlunknown[x*]) $3 ;;
        esac
    else :
        # compilation failed
        $3
        fi
fi

rm -fr conftest*

)# _LT_AC_TRY_DLOPEN_SELF

# AC_LIBTOOL_DLOPEN_SELF
# ----------------------
AC_DEFUN([AC_LIBTOOL_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "x$enable_dlopen" != xyes; then
    enable_dlopen=unknown
    enable_dlopen_self=unknown
    enable_dlopen_self_static=unknown
else
    lt_cv_dlopen=no
    lt_cv_dlopen_libs=

    case $host_os in

beos*)
lt_cv_dlopen="load_add_on"
lt_cv_dlopen_libs=
lt_cv_dlopen_self=yes
::

mingw* | pw32*)
lt_cv_dlopen="LoadLibrary"
lt_cv_dlopen_libs=
::

cygwin*)
lt_cv_dlopen="dlopen"
lt_cv_dlopen_libs=
::

darwin*)
# if libdl is installed we need to link against it
AC_CHECK_LIB([dl], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],[
lt_cv_dlopen="dyld"
lt_cv_dlopen_libs=
lt_cv_dlopen_self=yes
])
::
*)
AC_CHECK_FUNC([shl_load],
[lt_cv_dlopen="shl_load"],
[AC_CHECK_LIB([dld], [shl_load],
[lt_cv_dlopen="shl_load" lt_cv_dlopen_libs="-ldld"],
[AC_CHECK_FUNC([dlopen],
[lt_cv_dlopen="dlopen"],
[AC_CHECK_LIB([dl], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],
[AC_CHECK_LIB([svld], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-lsvld"],
[AC_CHECK_LIB([dld], [dld_link],
[lt_cv_dlopen="dld_link" lt_cv_dlopen_libs="-ldld"])
])
])
])
]
::
esac

if test "x$lt_cv_dlopen" != xno; then
enable_dlopen=yes
else
  enable_dlopen=no
fi

case $lt_cv_dlopen in
  dlopen)
    save_CPPFLAGS="$CPPFLAGS"
    test "x$sac_cv_header_dlfcn_h" = xyes && CPPFLAGS="$CPPFLAGS -DHAVE_DLFCN_H"
    save_LDFLAGS="$LDFLAGS"
    wl=$lt_prog_compiler_wl eval LDFLAGS="\$LDFLAGS $export_dynamic_flag_spec"
    save_LIBS="$LIBS"
    LIBS="$lt_cv_dlopen_libs $LIBS"
    AC_CACHE_CHECK([whether a program can dlopen itself],
    lt_cv_dlopen_self, [dnl
    _LT_AC_TRY_DLOPEN_SELF(
      lt_cv_dlopen_self=yes, lt_cv_dlopen_self=yes,
      lt_cv_dlopen_self=no, lt_cv_dlopen_self=cross)
    ])
    if test "x$lt_cv_dlopen_self" = xyes; then
      wl=$lt_prog_compiler_wl eval LDFLAGS="\$LDFLAGS $lt_prog_compiler_static"
      AC_CACHE_CHECK([whether a statically linked program can dlopen itself],
      lt_cv_dlopen_self_static, [dnl
      _LT_AC_TRY_DLOPEN_SELF(
        lt_cv_dlopen_self_static=yes, lt_cv_dlopen_self_static=yes,
        lt_cv_dlopen_self_static=no, lt_cv_dlopen_self_static=cross)
      ])
      fi
    CPPFLAGS="$save_CPPFLAGS"
    LDFLAGS="$save_LDFLAGS"
    LIBS="$save_LIBS"
    ;;
  esac
  esac

  case $lt_cv_dlopen_self in
    yes|no) enable_dlopen_self=$lt_cv_dlopen_self ;; *
      ) enable_dlopen_self=unknown ;;
    esac
  case $lt_cv_dlopen_self_static in
    yes|no) enable_dlopen_self_static=$lt_cv_dlopen_self_static ;; *
      ) enable_dlopen_self_static=unknown ;;
    esac
fi
)

# AC_LIBTOOL_PROG_CC_C_O([TAGNAME])
# ----------------------------------
# Check to see if options -c and -o are simultaneously supported by compiler
AC_DEFUN([AC_LIBTOOL_PROG_CC_C_O],
[AC_REQUIRE([LT_AC_PROG_SED])]
AC_REQUIRE([LT_AC_SYS_COMPILER])]
AC_CACHE_CHECK([if $compiler supports -c -o file.$ac_objext],
[LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)],
[LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=no]
$rm -r conftest 2>/dev/null
mkdir conftest
cd conftest
mkdir out
echo "$lt_simple_compile_test_code" > conftest.$ac_ext

lt_compiler_flag="-o out/confest2.$ac_objext"
# Insert the option either (1) after the last *FLAGS variable, or
# (2) before a word containing "confest.", or (3) at the end.
# Note that $ac_compile itself does not contain backslashes and begins
# with a dollar sign (not a hyphen), so the echo should work correctly.
lt_compile=`echo "$ac_compile" | $SED 
-e 's::*FLAGS}{0,1} :lt_compiler_flag ;; t' 
-e 's: [^ ]*confest. : lt_compiler_flag& ;; t' 
-e 's:$: lt_compiler_flag:'`
(eval echo "\$lt_compile\" >&AS_MESSAGE_LOG_FD)
(eval "$lt_compile" 2>out/confest.err)
ac_status=$? 
cat out/confest.err >&AS_MESSAGE_LOG_FD
echo "$as_me:__oline__: $ac_status" >&AS_MESSAGE_LOG_FD
if ((exit $ac_status) && test -s out/confest2.$ac_objext)
then
# The compiler can only warn and ignore the option if not recognized
# So say no if there are warnings
$echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' > out/confest.exp
$SED /^$/d; /^ */d out/confest.err >out/confest.err2
if test -s out/confest.err2 || diff out/confest.exp out/confest.err2 >/dev/null; then
  _LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes
fi
fi
$chmod u+w . 2>&AS_MESSAGE_LOG_FD
$rm confest*
# SGI C++ compiler will create directory out/ii_files/ for
# template instantiation
test -d out/ii_files && $rm out/ii_files/* && rmdir out/ii_files

if
$rm out/* & rmdir out
cd ..
rmdir conftest
$rm conftest*
}
)
)# AC_LIBTOOL_PROG_CC_C_O

# AC_LIBTOOL_SYS_HARD_LINK_LOCKS([TAGNAME])
# -----------------------------------------
# Check to see if we can do hard links to lock some files if needed
AC_DEFUN([AC_LIBTOOL_SYS_HARD_LINK_LOCKS],
[AC_REQUIRE([LT_AC_LOCK])dnl

hard_links="nottested"
if test "$_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)" = no & & test "$need_locks" != no; then
# do not overwrite the value of need_locks provided by the user
AC_MSG_CHECKING([if we can lock with hard links])
hard_links=yes
$rmdir conftest*
ln conftest.a conftest.b 2>/dev/null & & hard_links=no
touch conftest.a
ln conftest.a conftest.b 2>&5 || hard_links=no
ln conftest.a conftest.b 2>/dev/null & & hard_links=no
AC_MSG_RESULT([hard_links])
if test "hard_links" = no; then
   AC_MSG_WARN(["CC" does not support '-c -o', so 'make -j' may be unsafe])
   need_locks=warn
fi
else
   need_locks=no
fi
)# AC_LIBTOOL_SYS_HARD_LINK_LOCKS

# AC_LIBTOOL_OBJDIR
# --------------------
AC_DEFUN([AC_LIBTOOL_OBJDIR],
[AC_CACHE_CHECK([for objdir], [lt_cv_objdir],
[rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
if test -d .libs; then
   lt_cv_objdir=.libs
else
   # MS-DOS does not allow filenames that begin with a dot.
   lt_cv_objdir=_libs
fi
rmdir .libs 2>/dev/null])]
# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH([TAGNAME])
# -----------------------------
# Check hardcoding attributes.
AC_DEFUN([AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH],
[AC_MSG_CHECKING([how to hardcode library paths into programs])]
_LT_AC_TAGVAR(hardcode_action, $1)=
if test -n "$_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)" || 
  test -n "$_LT_AC_TAGVAR(runpath_var, $1)" || 
  test "X$_LT_AC_TAGVAR(hardcode_automatic, $1)" = "Xyes" ; then
  # We can hardcode non-existant directories.
  if test "$_LT_AC_TAGVAR(hardcode_direct, $1)" != no &&
    # If the only mechanism to avoid hardcoding is shlibpath_var, we
    # have to relink, otherwise we might link with an installed library
    # when we should be linking with a yet-to-be-installed one
    ## test "$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)" != no &&
    test "$_LT_AC_TAGVAR(hardcode_minus_L, $1)" != no; then
    # Linking always hardcodes the temporary library directory.
    _LT_AC_TAGVAR(hardcode_action, $1)=relink
  else
    # We can link without hardcoding, and we can hardcode nonexisting dirs.
    _LT_AC_TAGVAR(hardcode_action, $1)=immediate
  fi
else
  # We cannot hardcode anything, or else we can only hardcode existing
  # directories.
  _LT_AC_TAGVAR(hardcode_action, $1)=unsupported
fi
AC_MSG_RESULT([$_LT_AC_TAGVAR(hardcode_action, $1)])

if test "$$_LT_AC_TAGVAR(hardcode_action, $1)" = relink; then
  # Fast installation is not supported
  enable_fast_install=no
elif test "$shlibpath_overrides_runpath" = yes ||
  test "$enable_shared" = yes; then
  # Fast installation is not necessary
  enable_fast_install=needless
fi
)# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH

# AC_LIBTOOL_SYS_LIB_STRIP
# ------------------------
AC_DEFUN([AC_LIBTOOL_SYS_LIB_STRIP].
AC_MSG_CHECKING([whether stripping libraries is possible])
if test -n "$STRIP" && $STRIP -V 2>&1 | grep "GNU strip" >/dev/null; then
test -z "$old_striplib" && old_striplib="$STRIP --strip-debug"
test -z "$striplib" && striplib="$STRIP --strip-unneeded"
AC_MSG_RESULT([yes])
else
# FIXME - insert some real tests, host_os isn't really good enough
case $host_os in
darwin*)
    if test -n "$STRIP" ; then
        striplib="$STRIP -x"
        old_striplib="$STRIP -S"
        AC_MSG_RESULT([yes])
    else
        AC_MSG_RESULT([no])
    fi
;);
*)
    AC_MSG_RESULT([no])
;;;
esac
fi
)

# AC_LIBTOOL_SYS_DYNAMIC_LINKER
# -----------------------------
# PORTME Fill in your ld.so characteristics
AC_DEFUN([AC_LIBTOOL_SYS_DYNAMIC_LINKER],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_MSG_CHECKING([dynamic linker characteristics])
library_names_spec=
libname_spec='lib$name'
soname_spec=
shrext_cmds='.so'
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlssearch_path_spec="/lib /usr/lib"
m4_if($1,[],[
if test "SGCC" = yes; then

case $host_os in
darwin*) lt_awk_arg="/libraries:/.LR/" ;;
*) lt_awk_arg="/libraries/" ;;
esac
lt_search_path_spec="$CC -print-search-dirs | awk $lt_awk_arg | $SED -e "s/\libraries//" -e "s,.=/,.//g"
if echo "$lt_search_path_spec" | grep ';' >/dev/null ; then
    # if the path contains ";" then we assume it to be the separator
    # otherwise default to the standard path separator (i.e. ":") - it is
    # assumed that no part of a normal pathname contains ";" but that should
    # okay in the real world where ";" in dirpaths is itself problematic.
    lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e 's/;/ /g''
else
    lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e "s/$PATH_SEPARATOR/ /g"
fi
# Ok, now we have the path, separated by spaces, we can step through it
# and add multilib dir if necessary.
lt_tmp_lt_search_path_spec=
lz_multi_os_dir='$CC $CPPFLAGS $CFLAGS $LDFLAGS -print-multi-os-directory 2>/dev/null'
for lt_sys_path in $lt_search_path_spec; do
    if test -d "$lt_sys_path/$lt_multi_os_dir" ; then
        lt_tmp_lt_search_path_spec="$lt_tmp_lt_search_path_spec $lt_sys_path/$lt_multi_os_dir"
    else
        test -d "$lt_sys_path" && \
lz_tmp_lt_search_path_spec="$lt_tmp_lt_search_path_spec $lt_sys_path"
    fi
done
lt_search_path_spec='echo $lt_tmp_lt_search_path_spec | awk '
BEGIN {RS=" "; FS="/\n";
} { lt_foo="";
    lt_count=0;
    for (lt_i = NF; lt_i > 0; lt_i--) {
        if ($lt_i != "" && $lt_i != ".") {
            if ($lt_i == ".") {
                lt_count++;
            } else {
                if (lt_count == 0) {
                    lt_foo="/" $lt_i lt_foo;
                } else {
                    lt_count--;
                }
            } 
        }
    }
    if (lt_foo != ") { lt_freq[[lt_foo]]++; }
    if (lt_freq[[lt_foo]] == 1) { print lt_foo; }
}
"'
sys_lib_search_path_spec='echo $lt_search_path_spec' else
sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
fi)
need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -set_version
# flags to be left without arguments
need_version=unknown

case $host_os in
  aix3*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix $libname.a'
    shlibpath_var=LIBPATH
    # AIX 3 has no versioning support, so we append a major version to the name.
    soname_spec='${libname}${release}${shared_ext}$major'
  ;;
  aix([4-9])* )
    version_type=linux
    need_lib_prefix=no
    need_version=no
    hardcode_into_libs=yes
    if test "$host_cpu" = ia64; then
      # AIX 5 supports IA64
      library_names_spec='${libname}${release}${shared_ext}$major ${libname}${release}${shared_ext}$versuffix
      $libname${shared_ext}'
      shlibpath_var=LD_LIBRARY_PATH
    else
      # With GCC up to 2.95.x, collect2 would create an import file
      # for dependence libraries. The import file would start with
      # the line '#! .'. This would cause the generated library to
      # depend on '.', always an invalid library. This was fixed in
      # development snapshots of GCC prior to 3.0.
      case $host_os in
        aix4 | aix4.([01]) | aix4.([01]).*)
          if { echo '#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >= 97)'
              echo ' yes '}
            echo '#endif'; } | $CC -E - | grep yes > /dev/null; then
              shlibpath_var=LD_LIBRARY_PATH
            esac
          else
            can_build_shared=no
          fi
        ;;
        esac
        # AIX (on Power*) has no versioning support, so currently we can not hardcode correct
        # soname into executable. Probably we can add versioning support to
# collect2, so additional links can be useful in future.
if test "$aix_use_runtimelinking" = yes; then
  # If using run time linking (on AIX 4.2 or later) use lib<name>.so
  # instead of lib<name>.a to let people know that these are not
  # typical AIX shared libraries.
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
  $libname${shared_ext}'
else
  # We preserve .a as extension for shared libraries through AIX4.2
  # and later when we are not doing run time linking.
  library_names_spec='${libname}${release}.a $libname.a'
  soname_spec='${libname}${release}${shared_ext}$major'
fi
shlibpath_var=LIBPATH
fi

amigaos*)
  library_names_spec='$libname.ixlibrary $libname.a'
  # Create $[libname]_ixlibrary.a entries in /sys/libs.
  finish_eval='for lib in `ls $libdir/*ixlibrary 2>/dev/null`; do libname='echo "X$lib" | $Xsed -e "s%[^/]\[[^/]\]%\1%"'; test $rm /sys/libs/$[libname]_ixlibrary.a; $show "cd /sys/libs && $LN_S $Libn $libdir/$[libname]_ixlibrary.a"; cd /sys/libs && $LN_S $libdir/$[libname]_ixlibrary.a || exit 1; done'
  ;;
beos*)
  library_names_spec='${libname}${shared_ext}'
define_dynamic_linker="$host_os ld.so"
shlibpath_var=LIBRARY_PATH
  ;;
bsdi[[45]]*)
  version_type=linux
  need_version=no
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
  $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  finish_cmds='PATH="$PATH:/sbin" ldconfig $Libdir'
  shlibpath_var=LD_LIBRARY_PATH
  sys_lib_dlssearch_path_spec="/shlib /usr/lib /usr/local/lib"
  # the default ld.so.conf also contains /usr/ contrib/lib and
  # /usr/X11R6/lib (/usr/X11 is a link to /usr/X11R6), but let us allow
  # libtool to hard-code these into programs
  ;;
  cygwin* | mingw* | pw32*)
  version_type=windows
shrext_cmds=".dll"
need_version=no
need_lib_prefix=no

case "$GCC,$host_os" in
  yes,cygwin* | yes,mingw* | yes,pw32*)
    # DLL is installed to $(libdir)/../bin by postinstall_cmds
    postinstall_cmds="base_file=basename \${file}"
    dpdir=$SHELL 2>&1 -c ". $dir/'"\${base_file}'i;echo \${base_file}"
    dpdir=$destdir/'dirname \$dpdir"
    test -d \$dpdir || mkdir -p \$dpdir"
    $install_prog \$dir/\$dpdir/\$dpdir"
    chmod a+x \$dpdir/\$dpdir"
    postinstall_cmds='dldll='$SHELL 2>&1 -c ". $file; echo \${release}"
    dlpath=$dir/\$dldll"
    $rm \$dlpath"
    shlibpath_overrides_runpath=esac

case "$host_os" in
  cygwin*)
    # Cygwin DLLs use 'cyg' prefix rather than 'lib'
    soname_spec='echo \${libname} | sed -e 's/lib/cyg/'"\${release} \$SSED -e 's/[.]\]/-\)/g"$\{versuffix\}$\{shared_ext\}'
    sys_lib_search_path_spec="/usr/lib /lib/w32api /lib /usr/local/lib"
    ;;
  mingw*)
    # MinGW DLLs use traditional 'lib' prefix
    soname_spec='echo \${libname} | sed -e 's/libs/lib/cyg/'"\${release} \$SSED -e 's/[.]\]/-\)/g"$\{versuffix\}$\{shared_ext\}'
    sys_lib_search_path_spec="$CC -print-search-dirs | grep ^libraries:" | sed -e "s/$\{versuffix\}$/g""$\{shared_ext\}'
    if echo "$sys_lib_search_path_spec" | grep '/\$\{versuffix\}$/g"'
      # It is most probably a Windows format PATH printed by
      # mingw gcc, but we are running on Cygwin. Gcc prints its search
      # path with ; separators, and with drive letters. We can handle the
      # drive letters (cygwin fileutils understands them), so leave them,
      # especially as we might pass files found there to a mingw objdump,
      # which wouldn't understand a cygwinified path. Ahh.
      sys_lib_search_path_spec='echo "$sys_lib_search_path_spec" \$SSED -e 's/;/ /g"'
    else
      sys_lib_search_path_spec='echo "$sys_lib_search_path_spec" \$SSED -e 's/;/ /g"'
    fi
    ;;
  pw32*)
    # pw32 DLLs use 'pw' prefix rather than 'lib'
    library_names_spec='echo \${libname} | sed -e 's/lib/pw/"echo \${release} \$SSED -e 's/[.]\]/-\)/g"$\{versuffix\}$\{shared_ext\}'
    ;;
  esac

```
library_names_spec='${libname}'echo ${release} | $SED -e 's/\[[.].\]/-g"${versuffix}${shared_ext} ${libname}.lib"

esac
dynamic_linker='Win32 ld.exe'
# FIXME: first we should search . and the directory the executable is in
shlibpath_var=PATH
::

darwin* | rhapsody*
dynamic_linker="$host_os dyld"
version_type=darwin
need_lib_prefix=no
need_version=no
library_names_spec=${libname}${release}${versuffix}{$shared_ext} ${libname}${release}${major}{$shared_ext} ${libname}{$shared_ext'}
soname_spec=${libname}${release}${major}{$shared_ext'}
shlibpath_overrides_runpath=yes
shlibpath_var=DYLD_LIBRARY_PATH
shrext_cmds="test .$module = .yes && echo .so || echo .dylib"
m4_if([$1], [],
sys_lib_search_path_spec="$sys_lib_search_path_spec /usr/local/lib")
sys_lib_dlssearch_path_spec=/usr/local/lib /lib /usr/lib
::

dgux*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec=${libname}${release}${shared_ext}${versuffix} ${libname}${release}${shared_ext}${major} ${libname}${shared_ext'}
soname_spec=${libname}${release}${shared_ext}${major}
shlibpath_var=LD_LIBRARY_PATH
::

freebsd1*)
dynamic_linker=no
::

freebsd* | dragonfly*)
# DragonFly does not have aout. When/if they implement a new
# versioning mechanism, adjust this.
if test -x /usr/bin/objformat; then
    objformat='/usr/bin/objformat'
else
case $host_os in
```
freebsd(123)*) objformat=aout ;;
*) objformat=elf ;;
esac
fi

version_type=freebsd-$objformat
case $version_type in
  freebsd-elf*)
    library_names_spec=${libname}${release}${shared_ext}$versuffix $libname${release}${shared_ext}$libname${shared_ext}'
    need_version=no
    need_lib_prefix=no
  ;;
  freebsd-*)
    library_names_spec=${libname}${release}${shared_ext}$versuffix $libname${shared_ext}$versuffix'
    need_version=yes
  ;;
esac

shlibpath_var=LD_LIBRARY_PATH
case $host_os in
  freebsd2*)
    shlibpath_overrides_runpath=yes
  ;;
  freebsd3.[01]* | freebsdelf3.[01]*)
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
  ;;
  freebsd3.[2-9]* | freebsdelf3.[2-9]*) | 
  freebsd4.[0-5] | freebsdelf4.[0-5] | freebsd4.1.1 | freebsdelf4.1.1)
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
  ;;
  *) # from 4.6 on, andDragonFly
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
  ;;
esac
  ;;

  gnu*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec=${libname}${release}${shared_ext}$versuffix $libname${release}${shared_ext}${major}
  soname_spec=${libname}${release}${shared_ext}$major'
  shlibpath_var=LD_LIBRARY_PATH
  hardcode_into_libs=yes
  ;;
# Give a soname corresponding to the major version so that dld.sl refuses to
# link against other versions.

version_type=sunos
need_lib_prefix=no
need_version=no
case $host_cpu in
  ia64*)
    shrext_cmds='.so'
    hardcoded_into_libs=yes
dynamic_linker="$host_os dld.so"
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec=${libname}$release${shared_ext}$versuffix $libname$release${shared_ext}$major
    $libname${shared_ext}'
    soname_spec=${libname}$release${shared_ext}$major'
    if test 'XHPUX_IA64_MODE' = X32; then
      sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32 /usr/local/lib"
    else
      sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
    fi
    sys_lib_dlssearch_path_spec=$sys_lib_search_path_spec
    ;;
  hppa*64*)
    shrext_cmds='.sl'
    hardcoded_into_libs=yes
dynamic_linker="$host_os dld.sl"
    shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
    shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec=${libname}$release${shared_ext}$versuffix $libname$release${shared_ext}$major
    $libname${shared_ext}'
    soname_spec=${libname}$release${shared_ext}$major'
    sys_lib_dlssearch_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
    sys_lib_dlssearch_path_spec=$sys_lib_search_path_spec
    ;;
  *)
    shrext_cmds='.sl'
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=SHLIB_PATH
    shlibpath_overrides_runpath=no # +s is required to enable SHLIB_PATH
    library_names_spec=${libname}$release${shared_ext}$versuffix $libname$release${shared_ext}$major
    $libname$${shared_ext}'
    soname_spec=${libname}$release${shared_ext}$major'
    sys_lib_dlssearch_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
    sys_lib_dlssearch_path_spec=$sys_lib_search_path_spec
    ;;
  esac

# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'
interix\([3-9]\)*
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec=${libname}${release}${shared_ext}$versuffix $libname$release${shared_ext}$major
$\{libname\}$release$shared_ext'$
soname_spec=${libname}$release$shared_ext$major'
dynamic_linker=Interix 3.x ld.so.1 (PE, like ELF)'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
hardcode_into_libs=yes

irix5* | irix6* | nonstopux*)
case $host_os in
    nonstopux*) version_type=nonstopux ::
*
if test "$lt_cv_prog_gnu_ld" = yes; then
    version_type=linux
else
    version_type=irix
fi ::;
esac
need_lib_prefix=no
need_version=no
soname_spec=${libname}$release$shared_ext$major'
library_names_spec=${libname}$release$shared_ext$versuffix $libname$release$shared_ext$major
$\{libname\}$release$shared_ext$ major
$\{libname\}$release$shared_ext$ major
libsuff= shlibsuff=

shlibpath_var=LD_LIBRARY\{shlibsuff\}_PATH
shlibpath_overrides_runpath=no
sys_lib_search_path_spec="/usr/lib${libsuff} /lib${libsuff} /usr/local/lib${libsuff}"
sys_lib_dlsearch_path_spec="/usr/lib${libsuff} /lib${libsuff}"
hardcode_into_libs=yes

# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
dynamic_linker=no

# This must be Linux ELF.
linux* | k*bsd*-gnu)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major $libname${shared_ext}'
soname_spec=${libname}${release}${shared_ext}$major'
finish_cmds='PATH="PATH:/sbin" ldconfig -n $libdir'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
# This implies no fast_install, which is unacceptable.
# Some rework will be needed to allow for fast_install
# before this can be enabled.
hardcode_into_libs=yes

# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
  lt_ld_extra='awk '/^include / { system(sprintf("cd /etc; cat %s 2>/dev/null", \[$]2)); skip = 1; } { if (!skip) print \[$]0; skip = 0; } < /etc/ld.so.conf } SED -e `s/\#/\#/g` SED -e `s/[^=]*/[^=]*/g` SED -e `s/[^= ]= */[^= ]= /g` SED -e `s/\[\]/ /g` tr "\n" "
  sys_lib_dlsearch_path_spec="/lib /usr/lib $lt_ld_extra"
fi

# We used to test for /lib/ld.so.1 and disable shared libraries on
# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker. Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.
dynamic_linker='GNU/Linux ld.so'

netbsd*)
  version_type=sunos
  need_lib_prefix=no
  need_version=no
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    sys_lib_search_path_spec="/usr/lib${libsuff} /lib${libsuff} /usr/local/lib${libsuff}"
    sys_lib_dlsearch_path_spec="/usr/lib${libsuff} /lib${libsuff}"
    hardcode_into_libs=yes
  ;;

Open Source Used In Finesse 12.0(1)
library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
finish_cmds="PATH="$PATH:/sbin" ldconfig -m $libdir"
dynamic_linker='NetBSD (a.out) ld.so'
else
library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$${libname}$${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
dynamic_linker='NetBSD ld.elf_so'
fi
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes

newsos6)
    version_type=linux
    library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
    $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

nto-qnx*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
    $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

openbsd*)
    version_type=sunos
    sys_lib_dlsearch_path_spec="/usr/lib"
    need_lib_prefix=no
    # Some older versions of OpenBSD (3.3 at least) *do* need versioned libs.
    case $host_os in
        openbsd3.3 | openbsd3.3.*) need_version=yes ;;
        *) need_version=no ;;
e sac
    library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
    finish_cmds="PATH="$PATH:/sbin" ldconfig -m $libdir"
    shlibpath_var=LD_LIBRARY_PATH
    if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
        case $host_os in
        openbsd2.[89]) openbsd2.[89].*)
            case $host_cpu in
                openbsd2-ppc need_version=yes ;;
                *) need_version=no ;;
e sac
            library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
            finish_cmds="PATH="$PATH:/sbin" ldconfig -m $libdir"
            shlibpath_var=LD_LIBRARY_PATH
            if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
                case $host_os in
                openbsd2.[89]) openbsd2.[89].*)
                    case $host_cpu in
                        openbsd2-ppc need_version=yes ;;
                        *) need_version=no ;;
e sac
shlibpath_overrides_runpath=no
:: *
shlibpath_overrides_runpath=yes
::
esac
else
  shlibpath_overrides_runpath=yes
fi
::

os2*)
  libname_spec='$name'
  shrext_cmds='.dll'
  need_lib_prefix=no
  library_names_spec='$libname${shared_ext} $libname.a'
  dynamic_linker='OS/2 ld.exe'
  shlibpath_var=LIBPATH
::

osf3* | osf4* | osf5*)
  version_type=osf
  need_lib_prefix=no
  need_version=no
  soname_spec='${libname}${release}${shared_ext}$major'
  library_names_spec='${libname}${release}${shared_ext}${versuffix} $libname${release}${shared_ext}$major $libname${shared_ext}'
  shlibpath_var=LD_LIBRARY_PATH
  sys_lib_search_path_spec="/usr/shlib /usr/ccs/lib /usr/lib/cmplrs/cc /usr/lib /usr/local/lib /var/shlib"
  sys_lib_dlssearch_path_spec="$sys_lib_search_path_spec"
::

rdos*)
  dynamic_linker=no
::

solaris*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec='${libname}${release}${shared_ext}${versuffix} $libname${release}${shared_ext}$major $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  hardcode_into_libs=yes
  # ldd complains unless libraries are executable
  postinstall_cmds='chmod +x $lib'
unos4*)
  version_type=sunos
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
  finish_cmds='PATH="$PATH:/usr/etc" ldconfig $libdir'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  if test "$with_gnu_ld" = yes; then
    need_lib_prefix=no
  fi
  need_version=yes

sysv4 | sysv4.3*)
  version_type=linux
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
                   $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  shlibpath_var=LD_LIBRARY_PATH
  case $host_vendor in
    sni)
      shlibpath_overrides_runpath=no
      need_lib_prefix=no
      export_dynamic_flag_spec='${wl}-Blargedynsym'
      runpath_var=LD_RUN_PATH
      ;;
    siemens)
      need_lib_prefix=no
      ;;
    motorola)
      need_lib_prefix=no
      need_version=no
      shlibpath_overrides_runpath=no
      sys_lib_search_path_spec='/lib /usr/lib /usr/ccs/lib'
      ;;
    esac
    ;;

sysv4*MP*)
  if test -d /usr/nec ;then
    version_type=linux
    library_names_spec='$libname${shared_ext}.${versuffix} $libname${shared_ext}.${major} $libname${shared_ext}'
    soname_spec='$libname${shared_ext}.${major}'
    shlibpath_var=LD_LIBRARY_PATH
  fi
  ;;
sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)

version_type=freebsd-elf

need_lib_prefix=no

need_version=no

library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}

$libname${shared_ext}’

soname_spec='${libname}${release}${shared_ext}$major’

shlibpath_var=LD_LIBRARY_PATH

hardcode_into_libs=yes

if test "$with_gnu_ld" = yes; then

sys_lib_search_path_spec=/usr/local/lib /usr/gnu/lib /usr/ccs/lib /usr/lib /lib'

shlibpath_overrides_runpath=no

else

sys_lib_search_path_spec=/usr/ccs/lib /usr/lib'

shlibpath_overrides_runpath=yes

case $host_os in

sco3.2v5*)

sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"

;;

esac

fi

sys_lib_dlssearch_path_spec=/usr/lib'

;;

uts4*)

version_type=linux

library_names_spec='${libname}${release}${shared_ext}$versuffix $libname${release}${shared_ext}$major

$libname${shared_ext}’

soname_spec='${libname}${release}${shared_ext}$major’

shlibpath_var=LD_LIBRARY_PATH

;;

*)

dynamic_linker=no

;;

esac

AC_MSG_RESULT([$dynamic_linker])

test "$dynamic_linker" = no && can_build_shared=no

AC_CACHE_VAL([lt_cv_sys_lib_search_path_spec],
[lt_cv_sys_lib_search_path_spec="$sys_lib_search_path_spec"])

sys_lib_search_path_spec="$lt_cv_sys_lib_search_path_spec"

AC_CACHE_VAL([lt_cv_sys_lib_dlssearch_path_spec],
[lt_cv_sys_lib_dlssearch_path_spec="$sys_lib_dlssearch_path_spec"])

sys_lib_dlssearch_path_spec="$lt_cv_sys_lib_dlssearch_path_spec"

variables_saved_for_relink="PATH $shlibpath_var $runpath_var"

if test "SGCC" = yes; then
variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX COMPILER_PATH LIBRARY_PATH"
fi
]

}# AC_LIBTOOL_SYS_DYNAMIC_LINKER

### AC_TAGCONFIG
#
AC_DEFUN([_LT_AC_TAGCONFIG],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_ARG_WITH([tags],
[AC_HELP_STRING([-with-tags@:<:@TAGS@:@> @] ],
   [include additional configurations @:<:@automatic@:@> @]
   [tagnames="$withval"])
if test -f "$ltmain" && test -n "$tagnames"; then
if test ! -f "$ofile"; then
   AC_MSG_WARN([output file 'Sofile' does not exist])
fi
if test -z "$LTCC"; then
eval "'$SHELL ${ofile} --config | grep '^LTCC='"
if test -z "$LTCC"; then
   AC_MSG_WARN([output file 'Sofile' does not look like a libtool script])
else
   AC_MSG_WARN([using 'LTCC=$LTCC', extracted from 'Sofile'])
fi
fi
if test -z "$LTCFLAGS"; then
eval "'$SHELL ${ofile} --config | grep '^LTCFLAGS='"
fi

# Extract list of available tagged configurations in Sofile.
# Note that this assumes the entire list is on one line.
available_tags='grep "^available_tags=" "${ofile}" | $SED -e 's/available_tags=\(.*\)/\1/' -e 's/\|///g'
Lt_save_ifs="$IFS"; IFS="$IFS$PATH_SEPARATOR,"
for tagnname in $tagnames; do
   IFS="$Lt_save_ifs"
   # Check whether tagnname contains only valid characters
case "$echo 'X$tagnname' | $Sed -e 's:[-\_ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz1234567890,/]""' in "") ;;
   *) AC_MSG_ERROR([invalid tag name: $tagnname])
   esac
   if grep "^# ### BEGIN LIBTOOL TAG CONFIG: $tagnname$" < "$ofile" > /dev/null


then
    AC_MSG_ERROR([tag name "$tagname" already exists])
fi

# Update the list of available tags.
if test -n "$tagname"; then
echo appending configuration tag "$tagname" to $ofile

    case $tagname in
    CXX)
        if test -n "$CXX" && ( test "X$CXX" != "Xno" &&
                          ( (test "X$CXX" = "Xg++" && 'g++ -v >/dev/null 2>&1') ||
                            (test "X$CXX" != "Xg++")) ) ; then
            AC_LIBTOOL_LANG_CXX_CONFIG
        else
            tagname=""
        fi
        ;;

F77)
        if test -n "$F77" && test "X$F77" != "Xno"; then
            AC_LIBTOOL_LANG_F77_CONFIG
        else
            tagname=""
        fi
        ;;

    GCJ)
        if test -n "$GCJ" && test "X$GCJ" != "Xno"; then
            AC_LIBTOOL_LANG_GCJ_CONFIG
        else
            tagname=""
        fi
        ;;

    RC)
        AC_LIBTOOL_LANG_RC_CONFIG
        ;;

    *)
        AC_MSG_ERROR([Unsupported tag name: $tagname])
        ;;
esac

    # Append the new tag name to the list of available tags.
    if test -n "$tagname" ; then
        available_tags="$available_tags $tagname"
    fi
IFS="$lt_save_ifs"

# Now substitute the updated list of available tags.
if eval "sed -e 's/^available_tags=.*$/available_tags="$available_tags"/' "$ofile" > "$ofile"; then
    mv "$ofile" "$ofile"
    chmod +x "$ofile"
else
    rm -f "$ofile"
    AC_MSG_ERROR([unable to update list of available tagged configurations.])
fi
fi
}

# AC_LIBTOOL_DLOPEN
# -------------
# enable checks for dlopen support
AC_DEFUN([AC_LIBTOOL_DLOPEN],
[AC_BEFORE([$0], [AC_LIBTOOL_SETUP])])

# AC_LIBTOOL_WIN32_DLL
# -------------------
# declare package support for building win32 DLLs
AC_DEFUN([AC_LIBTOOL_WIN32_DLL],
[AC_BEFORE([$0], [AC_LIBTOOL_SETUP])])

# AC_ENABLE_SHARED([DEFAULT])
# ---------------------------
# implement the --enable-shared flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_SHARED],
[define([AC_ENABLE_SHARED_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([shared],
[AC_HELP_STRING([--enable-shared@<:@=PKGS@:>@],
[build shared libraries @<:@default=]AC_ENABLE_SHARED_DEFAULT[@:@ ]),
[p=${PACKAGE-default]
case $enableval in
yes) enable_shared=yes ;;
no) enable_shared=no ;;
*)
enable_shared=no
# Look at the argument we got. We use all the common list separators.
lt_save_ifs="$IFS"; IFS="${IFS}SPATH_SEPARATOR,"
for pkg in $enableval; do
IFS="$lt_save_ifs"
if test "X$pkg" = "X$p"; then
  enable_shared=yes
fi
done
IFS="$lt_save_ifs"
;;
esac,
[enable_shared=]AC_ENABLE_SHARED_DEFAULT)
]# AC_ENABLE_SHARED

# AC_DISABLE_SHARED
# ---------------
# # set the default shared flag to --disable-shared
AC_DEFUN([AC_DISABLE_SHARED],
[AC_BEFORE([0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_SHARED(no)
)]# AC_DISABLE_SHARED

# AC_ENABLE_STATIC([DEFAULT])
# ---------------------------
# # implement the --enable-static flag
# # DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_STATIC],
[define([AC_ENABLE_STATIC_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([static],
[AC_HELP_STRING([--enable-static@<:@=PKGS@:>@],
[build static libraries @<:@default=]AC_ENABLE_STATIC_DEFAULT[@:>@]),
[p=${PACKAGE-default}
case $enableval in
  yes) enable_static=yes ;;
  no) enable_static=no ;;
  *)
  enable_static=no
  # Look at the argument we got. We use all the common list separators.
  lt_save_ifs="$IFS"; IFS="${IFS}SPATH_SEPARATOR,"
  for pkg in $enableval; do
    IFS="$lt_save_ifs"
    if test "X$pkg" = "X$p"; then
      enable_static=yes
    fi
done
IFS="$lt_save_ifs"
;;
esac],
[enable_static=]AC_ENABLE_STATIC_DEFAULT)
) # AC_ENABLE_STATIC

# AC_DISABLE_STATIC
# -----------------
# set the default static flag to --disable-static
AC_DEFUN([AC_DISABLE_STATIC],
[AC_BEFORE([$0], [AC_LIBTOOL_SETUP]) dnl
AC_ENABLE_STATIC(no)
) # AC_DISABLE_STATIC

# AC_ENABLE_FAST_INSTALL([DEFAULT])
# -------------------------------
# implement the --enable-fast-install flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_FAST_INSTALL],
[define([AC_ENABLE_FAST_INSTALL_DEFAULT], ifelse($1, no, no, yes)) dnl
AC_ARG_ENABLE([fast-install],
[AC_HELP_STRING([--enable-fast-install@<:@=PKGS@:@>@],
optimize for fast installation @<:@default=]AC_ENABLE_FAST_INSTALL_DEFAULT[@:>@])
[p=${PACKAGE-default}
case $enableval in
  yes) enable_fast_install=yes ;;
  no) enable_fast_install=no ;;
  *)
    enable_fast_install=no
# Look at the argument we got. We use all the common list separators.
lit_save_ifs="IFS"; IFS="$IFS$PATH_SEPARATOR,"
for pkg in $enableval; do
  if test "X$pkg" = "X$p"; then
    enable_fast_install=yes
  fi
done
IFS="$lit_save_ifs"
if test "$p$pkg" = "$p"; then
  enable_fast_install=yes
fi
done
IFS="$lit_save_ifs"
::
esac],
[enable_fast_install=]AC_ENABLE_FAST_INSTALL_DEFAULT)
) # AC_ENABLE_FAST_INSTALL

# AC_DISABLE_FAST_INSTALL
# -----------------------
# set the default to --disable-fast-install
AC_DEFUN([AC_DISABLE_FAST_INSTALL],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_FAST_INSTALL(no)
])# AC_DISABLE_FAST_INSTALL

# AC_LIBTOOL_PICMODE([MODE])
# -------------------------# implement the --with-pic flag
# MODE is either 'yes' or 'no'. If omitted, it defaults to 'both'.
AC_DEFUN([AC_LIBTOOL_PICMODE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
pic_mode=ifelse($#,1,$1,default)
])# AC_LIBTOOL_PICMODE

# AC_PROG_EGREP
# ------------# This is predefined starting with Autoconf 2.54, so this conditional
# definition can be removed once we require Autoconf 2.54 or later.
m4_ifndef([AC_PROG_EGREP], [AC_DEFUN([AC_PROG_EGREP],
[AC_CACHE_CHECK([for egrep], [ac_cv_prog_egrep],
[if echo a | (grep -E '(a|b)') >/dev/null 2>&1
then ac_cv_prog_egrep='grep -E'
else ac_cv_prog_egrep='egrep'
fi])
EGREP=$ac_cv_prog_egrep
AC_SUBST([EGREP])
])])

# AC_PATH_TOOL_PREFIX
# ------------------# find a file program which can recognize shared library
AC_DEFUN([AC_PATH_TOOL_PREFIX],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_MSG_CHECKING([for $1])
AC_CACHE_VAL(lt_cv_path_MAGIC_CMD,
[case $MAGIC_CMD in
[[\\/*] | ?:[\\/]*])
lt_cv_path_MAGIC_CMD="$MAGIC_CMD" # Let the user override the test with a path.
;;
*)
lt_save_MAGIC_CMD="$MAGIC_CMD"
lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
dnl $ac_dummy forces splitting on constant user-supplied paths.
dnl POSIX.2 word splitting is done only on the output of word expansions,
dnl not every word. This closes a longstanding sh security hole.
ac_dummy="ifelse([$2], , $PATH, [$2])"

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for ac_dir in $ac_dummy; do
  IFS="$lt_save_ifs"
  test -z "$ac_dir" && ac_dir=.
  if test -f $ac_dir/$1; then
    lt_cv_path_MAGIC_CMD="$ac_dir/$1"
    if test -n "$file_magic_test_file"; then
      case $deplibs_check_method in
      "file_magic "*)
        file_magic_regex=expr "$deplibs_check_method" : "file_magic \(.*\)"
        MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
        if eval $file_magic_cmd $file_magic_test_file 2> /dev/null |
          $EGREP "$file_magic_regex" > /dev/null; then
          :
        else
          cat <<EOF 1>&2
            *** Warning: the command libtool uses to detect shared libraries,
            *** $file_magic_cmd, produces output that libtool cannot recognize.
            *** The result is that libtool may fail to recognize shared libraries
            *** as such. This will affect the creation of libtool libraries that
            *** depend on shared libraries, but programs linked with such libtool
            *** libraries will work regardless of this problem. Nevertheless, you
            *** may want to report the problem to your system manager and/or to
            *** bug-libtool@gnu.org
            EOF
        fi
      esac
    fi
  fi
done
IFS="$lt_save_ifs"
MAGIC_CMD="$lt_save_MAGIC_CMD"
;,
esac
MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if test -n "$MAGIC_CMD"; then
  AC_MSG_RESULT($MAGIC_CMD)
else
  AC_MSG_RESULT(no)
fi
})# AC_PATH_TOOL_PREFIX

# AC_PATH_MAGIC
# ---------------
# find a file program which can recognize a shared library
AC_DEFUN([AC_PATH_MAGIC],
[AC_PATH_TOOL_PREFIX(${ac_tool_prefix}file, /usr/bin$PATH_SEPARATOR$PATH)
if test -z "$lt_cv_path_MAGIC_CMD"; then
if test -n "$ac_tool_prefix"; then
AC_PATH_TOOL_PREFIX(file, /usr/bin$PATH_SEPARATOR$PATH)
else
MAGIC_CMD=:
fi
fi
])# AC_PATH_MAGIC

# AC_PROG_LD
# ---------# find the pathname to the GNU or non-GNU linker
AC_DEFUN([AC_PROG_LD],
[AC_ARG_WITH([gnu-ld],
[AC_HELP_STRING([--with-gnu-ld],
[assume the C compiler uses GNU ld @<:@default=no@:>@])],
[test "$withval" = no || with_gnu_ld=yes],
[with_gnu_ld=no])
AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_REQUIRE([AC_PROG_CC])dnl
AC_REQUIRE([AC_CANONICAL_HOST])dnl
AC_REQUIRE([AC_CANONICAL_BUILD])dnl
ac_prog=ld
if test "$GCC" = yes; then
# Check if gcc -print-prog-name=ld gives a path.
AC_MSG_CHECKING([for ld used by $CC])
case $host in
*-*-mingw*)
# gcc leaves a trailing carriage return which upsets mingw
ac_prog='($CC -print-prog-name=ld) 2>&5 | tr -d '\015'' ;;
*)
ac_prog='($CC -print-prog-name=ld) 2>&5' ;;
esac
case $ac_prog in
# Accept absolute paths.
[[\\/]]* | ?:[[\\/]]*)
re_direlt='/[[^/]][[^/]]*/\.\./'
# Canonicalize the pathname of ld
ac_prog='echo $ac_prog| $SED 's%\\\\%/%g''
while echo $ac_prog | grep "$re_direlt" > /dev/null 2>&1; do
ac_prog='echo $ac_prog| $SED "s%$re_direlt%/%"'
done
test -z "$LD" && LD="$ac_prog"
;;
"")

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# If it fails, then pretend we aren't using GCC.
ac_prog=ld
;
*)
# If it is relative, then search for the first ld in PATH.
with_gnu_ld=unknown
;
esac
elif test "$with_gnu_ld" = yes; then
AC_MSG_CHECKING([for GNU ld])
else
AC_MSG_CHECKING([for non-GNU ld])
fi
AC_CACHE_VAL(lt_cv_path_LD,
[if test -z "$LD"; then
lt_save_ifs="IFS"; IFS=$PATH_SEPARATOR
for ac_dir in $PATH; do
IFS="$lt_save_ifs"
test -z "$ac_dir" && ac_dir=.
if test -f "$ac_dir/$ac_prog" || test -f "$ac_dir/$ac_prog$ac_exeext"; then
lt_cv_path_LD="$ac_dir/$ac_prog"
# Check to see if the program is GNU ld. I'd rather use --version,
# but apparently some variants of GNU ld only accept -v.
# Break only if it was the GNU/non-GNU ld that we prefer.
case "$lt_cv_path_LD" -v 2>&1 </dev/null in
*GNU* | *'with BFD'*)
test "$with_gnu_ld" != no && break
;
*)
test "$with_gnu_ld" != yes && break
;
esac
fi
done
IFS="$lt_save_ifs"
else
lt_cv_path_LD="$LD" # Let the user override the test with a path.
fi)
LD="$lt_cv_path_LD"
if test -n "$LD"; then
AC_MSG_RESULT($LD)
else
AC_MSG_RESULT(no)
fi
test -z "$LD" && AC_MSG_ERROR([no acceptable ld found in \$PATH])
AC_PROG_LD_GNU
# AC_PROG_LD
# AC_PROG_LD_GNU
#
AC_DEFUN([AC_PROG_LD_GNU],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_CACHE_CHECK([if the linker ($LD) is GNU ld], lt_cv_prog_gnu_ld,
[# I'd rather use --version here, but apparently some GNU lds only accept -v.
case '$LD -v 2>&1 <(dev/null)' in
  *GNU* | *'with BFD'*)
l_t_cv_prog_gnu_ld=yes
  ;;
  *)
l_t_cv_prog_gnu_ld=no
  ;;
esac])
with_gnu_ld=$(lt_cv_prog_gnu_ld
J)# AC_PROG_LD_GNU

# AC_PROG_LD_RELOAD_FLAG
#
# find reload flag for linker
# -- PORTME Some linkers may need a different reload flag.
AC_DEFUN([AC_PROG_LD_RELOAD_FLAG],
[AC_CACHE_CHECK([for $LD option to reload object files],
l_t_cv_ld_reload_flag,
  [l_t_cv_ld_reload_flag='-r'])
reload_flag=$(l_t_cv_ld_reload_flag
case $reload_flag in
  "" | " ")
  ;;
  *) reload_flag=" $reload_flag" ;;
esac
reload_cmds='$LD$reload_flag -o $output$reload_objs'
case $host_os in
darwin*)
  if test "$GCC" = yes; then
    reload_cmds='$LTCC $LTCFLAGS -nostdlib $wl-r -o $output$reload_objs'
  else
    reload_cmds='$LD$reload_flag -o $output$reload_objs'
  fi
  ;;
esac
J)# AC_PROG_LD_RELOAD_FLAG

# AC_DEPLIBS_CHECK_METHOD
#
# how to check for library dependencies
# -- PORTME fill in with the dynamic library characteristics
AC_DEFUN([AC_DEPLIBS_CHECK_METHOD],
[AC_CACHE_CHECK([how to recognize dependent libraries],
lt_cv_deplibs_check_method,
[lt_cv_file_magic_cmd='$MAGIC_CMD'
lt_cv_file_magic_test_file=
ltn_cv_deplibs_check_method='unknown'
# Need to set the preceding variable on all platforms that support
# interlibrary dependencies.
# 'none' -- dependencies not supported.
# 'unknown' -- same as none, but documents that we really don't know.
# 'pass_all' -- all dependencies passed with no checks.
# 'test_compile' -- check by making test program.
# 'file_magic [[regex]]' -- check by looking for files in library path
# which responds to the $file_magic_cmd with a given extended regex.
# If you have 'file' or equivalent on your system and you're not sure
# whether 'pass_all' will *always* work, you probably want this one.

case $host_os in
  aix[[4-9]]*)
    lt_cv_deplibs_check_method=pass_all
  ;;
  beos*)
    lt_cv_deplibs_check_method=pass_all
  ;;
  bsd[45]*)
    lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (shared object|dynamic lib)'
    lt_cv_file_magic_cmd='/usr/bin/file -L'
    lt_cv_file_magic_test_file=/shlib/libc.so
  ;;
  cygwin*)
    # func_win32_libid is a shell function defined in ltmain.sh
    lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
    lt_cv_file_magic_cmd='func_win32_libid'
  ;;
  mingw* | pw32*)
    # Base MSYS/MinGW do not provide the 'file' command needed by
    # func_win32_libid shell function, so use a weaker test based on 'objdump',
    # unless we find 'file', for example because we are cross-compiling.
    if ( file / ) >/dev/null 2>&1; then
      lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
      lt_cv_file_magic_cmd='func_win32_libid'
    else
      lt_cv_deplibs_check_method='file_magic file format pei*-i386(.*architecture: i386)'
    fi
  esac
)
lt_cv_file_magic_cmd='SOBJDUMP -f'
fi
;;

darwin* | rhapsody*)
lt_cv_deplibs_check_method=pass_all
;;

freebsd* | dragonfly*)
if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
case $host_cpu in
  i*86 )
    # Not sure whether the presence of OpenBSD here was a mistake.
    # Let's accept both of them until this is cleared up.
    lt_cv_deplibs_check_method='file_magic (FreeBSD|OpenBSD|DragonFly)/i[[3-9]]86 (compact )?demand paged shared library'
    lt_cv_file_magic_cmd=/usr/bin/file
    lt_cv_file_magic_test_file='echo /usr/lib/libc.so.*'
    ;;
    esac
else
  lt_cv_deplibs_check_method=pass_all
fi
;;

gnu*)
lt_cv_deplibs_check_method=pass_all
;;

hpux10.20* | hpux11*)
lt_cv_file_magic_cmd=/usr/bin/file
case $host_cpu in
  ia64*)
    lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]][[0-9]][[0-9]][[0-9]]|ELF-[[0-9]][[0-9]]|[[0-9]]|0-9]) shared object file - IA64'
    lt_cv_file_magic_test_file=/usr/lib/hpux32/libc.so
    ;;
  hppa*64*)
    [lt_cv_deplibs_check_method='file_magic (s[0-9][0-9][0-9][0-9][0-9][0-9][0-9]) shared object file - PA-RISC [0-9][0-9][0-9][0-9][0-9][0-9][0-9]]
    lt_cv_file_magic_test_file=/usr/lib/pa20_64/libc.sl
    ;;
  *)
    lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]][[0-9]][0-9][PA-RISC][0-9][0-9])[0-9]) shared library'
    lt_cv_file_magic_test_file=/usr/lib/libc.sl
    ;;
  esac
  ;;
interix[[3-9]]*"
# PIC code is broken on Interix 3.x, that's why \a not \_pic\a here
lt_cv_deplibs_check_method='match_pattern /lib[\^/]*/.+|\_pic\a$'
::

irix5* | irix6* | nonstopux*)
case $LD in
  *-32*|"-32 ") libmagic=32-bit;;
  *-n32|"-n32 ") libmagic=N32;;
  *-64*|"-64 ") libmagic=64-bit;;
  *) libmagic=never-match;;
esac
lt_cv_deplibs_check_method=pass_all
::

# This must be Linux ELF.
linux* | k*bsd*|gnu)
lt_cv_deplibs_check_method=pass_all
::

netbsd*)
if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
  lt_cv_deplibs_check_method='match_pattern /lib[\^/]*/.+|\_pic\a$'
else
  lt_cv_deplibs_check_method='match_pattern /lib[\^/]*/.+|\_pic\a$'
fi
::

newos6*)
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (executable|dynamic lib)'
lit_cv_file_magic_cmd=/usr/bin/file
lt_cv_file_magic_test_file=/usr/lib/libnls.so
::

nto-qnx*)
lit_cv_deplibs_check_method=unknown
::

openbsd*
if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
  lit_cv_deplibs_check_method='match_pattern /lib[\^/]*/.+|\_pic\a$'
else
  lit_cv_deplibs_check_method='match_pattern /lib[\^/]*/.+|\_pic\a$'
fi
::

osf3* | osf4* | osf5*)
lit_cv_deplibs_check_method=pass_all
rdos*
lt_cv_deplibs_check_method=pass_all
;;

solaris*)
lt_cv_deplibs_check_method=pass_all
;;

sysv4 | sysv4.3*)
case $host_vendor in
motorola)
ltx_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (shared object|dynamic lib) M[[0-9]][[0-9]]* Version [[0-9]]'
ltx_cv_file_magic_test_file='echo /usr/lib/libc.so*'
;;
ncr)
ltx_cv_deplibs_check_method=pass_all
;;
sequent)
ltx_cv_file_magic_cmd='/bin/file'
ltx_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[LM]]SB (shared object|dynamic lib )'
;;
sni)
ltx_cv_file_magic_cmd='/bin/file'
ltx_cv_deplibs_check_method="file_magic ELF [[0-9]][[0-9]]*-bit [[LM]]SB dynamic lib"
ltx_cv_file_magic_test_file=/lib/libc.so
;;
siemens)
ltx_cv_deplibs_check_method=pass_all
;;
pc)
ltx_cv_deplibs_check_method=pass_all
;;
esac
;;
sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
ltx_cv_deplibs_check_method=pass_all
;;
esac
}
)
file_magic_cmd=$lt_cv_file_magic_cmd
deplibs_check_method=$lt_cv_deplibs_check_method
test -z "$deplibs_check_method" && deplibs_check_method=unknown
)# AC_DEPLIBS_CHECK_METHOD
# AC_PROG_NM

# find the pathname to a BSD-compatible name lister
AC_DEFUN([AC_PROG_NM],

[AC_CACHE_CHECK([for BSD-compatible nm], lt_cv_path_NM,
if test -n "$NM"; then
# Let the user override the test.
lt_cv_path_NM="$NM"
else
lt_nm_to_check="${ac_tool_prefix}nm"
if test -n "$ac_tool_prefix" && test "$build" = "$host"; then
lt_nm_to_check="$lt_nm_to_check nm"
fi
for lt_tmp_nm in $lt_nm_to_check; do
  lt_save_ifs="IFS"; IFS=$PATH_SEPARATOR
  for ac_dir in $PATH /usr/ccs/bin/elf /usr/ccs/bin /usr/ucb /bin; do
    IFS="$lt_save_ifs"
    test -z "$ac_dir" && ac_dir=.
    tmp_nm="$ac_dir/$lt_tmp_nm"
    if test -f "$tmp_nm" || test -f "$tmp_nm$ac_exeext" ; then
      # Check to see if the nm accepts a BSD-compat flag.
      # Adding the 'sed 1q' prevents false positives on HP-UX, which says:
      # nm: unknown option "B" ignored
      # Tru64's nm complains that /dev/null is an invalid object file
      case ""$tmp_nm" -B /dev/null 2>&1 | sed '1q' in
      /*(dev/null*) | *(Invalid file or object type*)
      lt_cv_path_NM="$tmp_nm -B"
      break
      ;;
      *)
case ""$tmp_nm" -p /dev/null 2>&1 | sed '1q' in
      /*(dev/null*)
      lt_cv_path_NM="$tmp_nm -p"
      break
      ;;
      *)
    lt_cv_path_NM=${lt_cv_path_NM="$tmp_nm"} # keep the first match, but
    continue # so that we can try to find one that supports BSD flags
    ;;
esac
    ;;
esac
  done
IFS="$lt_save_ifs"
done
test -z "$lt_cv_path_NM" && lt_cv_path_NM=nm
# AC_CHECK_LIBM
# ---------------
# check for math library
AC_DEFUN([AC_CHECK_LIBM],
[AC_REQUIRE([AC_CANONICAL_HOST])dnl LIBM=
case $host in
  *-beos* | *-cygwin* | *-pw32* | *-darwin*)
  # These system don't have libm, or don't need it
  ::
  *-ncr-sysv4.3*)
  AC_CHECK_LIB(mw, _mwvalidcheckl, LIBM="-lmw")
  AC_CHECK_LIB(m, cos, LIBM="$LIBM -lm")
  ::
  *)
  AC_CHECK_LIB(m, cos, LIBM="-lm")
  ;;
esac)
}
# AC_LIBLTDL_CONVENIENCE([DIRECTORY])
# ------------------------------------
# sets LIBLTDL to the link flags for the libltdl convenience library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-convenience to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# it is assumed to be 'libltdl'. LIBLTDL will be prefixed with
# "$top_builddir" and LTDLINCL will be prefixed with "$top_srcdir"/
# (note the single quotes!). If your package is not flat and you're not
# using automake, define top_builddir and top_srcdir appropriately in
# the Makefiles.
AC_DEFUN([AC_LIBLTDL_CONVENIENCE],
[AC_BEFORE([$0], [AC_LIBTOOL_SETUP])dnl case enable_ltdl_convenience in
  no) AC_MSG_ERROR([this package needs a convenience libltdl]) ;;
  "") enable_ltdl_convenience=true
  ac_configure_args="$ac_configure_args --enable-ltdl-convenience" ;;
esac)
LIBLTDL="$top_builddir"/libltdl.la
LTDLINCL="-$top_srcdir"/libltdlc.la
# For backwards non-gettext consistent compatibility...
INCLTDL="-$top_srcdir"/
# AC_LIBLTDL_INSTALLABLE([DIRECTORY])
# -----------------------------------
# sets LIBLTDL to the link flags for the libltdl installable library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-install to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# and an installed libltdl is not found, it is assumed to be 'libltdl'.
# LIBLTDL will be prefixed with '${top_builddir}/' and LTDLINCL with
# '${top_srcdir}/' (note the single quotes!). If your package is not
# flat and you're not using automake, define top_builddir and top_srcdir
# appropriately in the Makefiles.
# In the future, this macro may have to be called after AC_PROG_LIBTOOL.
AC_DEFUN([AC_LIBLTDL_INSTALLABLE], [AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_CHECK_LIB(ltdl, lt_dlinit,
    [test x"enable_ltdl_install" != xyes & & enable_ltdl_install=no],
    [if test x"enable_ltdl_install" = xno; then
        AC_MSG_WARN([libltdl not installed, but installation disabled])
    else
        enable_ltdl_install=yes
    fi]
    if test x"enable_ltdl_install" = xyes; then
        ac_configure_args="$ac_configure_args --enable-ltdl-install"
    LIBLTDL='${top_builddir}/'ifelse($#,1,[$1],['libltdl'])/libltdl.la
    LTDLINCL='-I${top_srcdir}/'ifelse($#,1,[$1],['libltdl'])
else
    ac_configure_args="$ac_configure_args --enable-ltdl-install=no"
    LIBLTDL="-lltdl"
    LTDLINCL=
fi
# For backwards non-gettext consistent compatibility...
INCLTDL="$LTDLINCL"
))# AC_LIBLTDL_INSTALLABLE

# AC_LIBTOOL_CXX
# --------------
# enable support for C++ libraries
AC_DEFUN([AC_LIBTOOL_CXX], [AC_REQUIRE([_LT_AC_LANG_CXX])]
))# AC_LIBTOOL_CXX

# _LT_AC_LANG_CXX
# _LT_AC_LANG_CXX
# ------------------
AC_DEFUN(_LT_AC_LANG_CXX),
[AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([_LT_AC_PROG_CXXCPP])
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}CXX])
]

# _LT_AC_PROG_CXXCPP
# ------------------
AC_DEFUN([_LT_AC_PROG_CXXCPP],
[
AC_REQUIRE([AC_PROG_CXX])
if test -n "$CXX" &
(test "X$CXX" != "Xno" &
( (test "X$CXX" = "Xg++" &
'd $g++ -v >/dev/null 2>&1') ||
(test "X$CXX" != "Xg++");
then
AC_PROG_CXXCPP
fi
]

# AC_LIBTOOL_F77
# -------------
# enable support for Fortran 77 libraries
AC_DEFUN([AC_LIBTOOL_F77],
[AC_REQUIRE([_LT_AC_LANG_F77])
]

# _LT_AC_LANG_F77
# -------------
AC_DEFUN([_LT_AC_LANG_F77],
[AC_REQUIRE([AC_PROG_F77])
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}F77])
]

# AC_LIBTOOL_GCJ
# -------------
# enable support for GCJ libraries
AC_DEFUN([AC_LIBTOOL_GCJ],
[AC_REQUIRE([_LT_AC_LANG_GCJ])
]

# _LT_AC_LANG_GCJ
# -------------
AC_DEFUN([_LT_AC_LANG_GCJ],
[AC_PROVIDE_IFELSE([AC_PROG_GCJ],[],
[AC_PROVIDE_IFELSE([A][M_PROG_GCJ],[]),]
Open Source Used In Finesse 12.0(1)

[AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],[]),
 [ifdef([AC_PROG_GCJ],[AC_REQUIRE([AC_PROG_GCJ])]),
 [ifdef([A][M_PROG_GCJ],[AC_REQUIRE([A][M_PROG_GCJ])]),
 [AC_REQUIRE([A][C_PROG_GCJ_OR_A][M_PROG_GCJ])])])
 _LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}GCJ])
 ]# _LT_AC_LANG_GCJ

# AC_LIBTOOL_RC
#
# enable support for Windows resource files
AC_DEFUN([AC_LIBTOOL_RC],
 [AC_REQUIRE([LT_AC_PROG_RC])
 _LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}RC])
])# AC_LIBTOOL_RC

# AC_LIBTOOL_LANG_C_CONFIG
#
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_C_CONFIG], [_LT_AC_LANG_C_CONFIG])
AC_DEFUN([_LT_AC_LANG_C_CONFIG],
 [lt_save_CC="$CC"
 AC_LANG_PUSH(C)

# Source file extension for C test sources.
ac_ext=c

# Object file extension for compiled C test sources.
objext=o
 _LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(){return(0);}'

_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
AC_LIBTOOL_SYS_LIB_STRIP
AC_LIBTOOL_DLOPEN_SELF

# Report which library types will actually be built
AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([Scan_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
  aix3+)
test "$enable_shared" = yes && enable_static=no
if test -n "$SRANLIB"; then
  archive_cmds="$archive_cmds~$SRANLIB ‘\lib’
  postinstall_cmds="$SRANLIB $lib’
fi
;;

aix[[4-9]+])
if test "$host_cpu" != ia64 && $aix_use_runtimelinking = no ; then
  test "$enable_shared" = yes && enable_static=no
fi
;;
esac
AC_MSG_RESULT([$enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([$enable_static])

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
)## AC_LIBTOOL_LANG_C_CONFIG

# AC_LIBTOOL_LANG_CXX_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are suitably defined. Those variables are subsequently used by # AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.

AC_DEFUN([AC_LIBTOOL_LANG_CXX_CONFIG], [_LT_AC_LANG_CXX_CONFIG(CXX)]) AC_DEFUN([_LT_AC_LANG_CXX_CONFIG], [AC_LANG_PUSH(C++) AC_REQUIRE([AC_PROG_CXX]) AC_REQUIRE([_LT_AC_PROG_CXXCPP])

_LT_AC_TAGVAR(archive_cmds_need_Lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Dependencies to place before and after the object being linked:
_LT_AC_TAGVAR(predep_objects, $1)=
_LT_AC_TAGVAR(postdep_objects, $1)=
_LT_AC_TAGVAR(predeps, $1)=
_LT_AC_TAGVAR(postdeps, $1)=
_LT_AC_TAGVAR(compiler_lib_search_path, $1)=
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=

# Source file extension for C++ test sources.
ac_ext=cpp

# Object file extension for compiled C++ test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(int, char *[[[]]]) { return(0); }'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC=$CC
lt_save_LD=$LD
lt_save_GCC=$GCC
GCC=$GXX
lt_save_with_gnu_ld=$with_gnu_ld
lt_save_path_LD=$lt_cv_path_LD
if test -n "${lt_cv_prog_gnu_ldcxx+set}" ; then
  lt_cv_prog_gnu_ld=$lt_cv_prog_gnu_ldcxx
else
  $as_unset lt_cv_prog_gnu_ld
fi
if test -n "${lt_cv_path_LDCXX+set}" ; then
  lt_cv_path_LD=$lt_cv_path_LDCXX
else
  $as_unset lt_cv_path_LD
fi
test -z "${LDCXX+set}" || LD=$LDCXX
CC=${CXX-"c++"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

# We don't want -fno-exception when compiling C++ code, so set the
# no_builtin_flag separately
if test "$GXX" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)="-fno-builtin"
else
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=
fi

if test "$GXX" = yes; then
  # Set up default GNU C++ configuration
  AC_PROG_LD

  # Check if GNU C++ uses GNU ld as the underlying linker, since the
  # archiving commands below assume that GNU ld is being used.
  if test "$with_gnu_ld" = yes; then

# If archive_cmds runs LD, not CC, wlarc should be empty
# XXX I think wlarc can be eliminated in ltcf-cxx, but I need to
#     investigate it a little bit more. (MM)
wlarc="$wl"

# ancient GNU ld didn't support --whole-archive et. al.
if eval "'$CC -print-prog-name=ld' --help 2>&1 | \
grep 'no-whole-archive' > /dev/null; then
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-archive$convenience "$wlarc"--no-whole-archive'
else
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
fi
else
    with_gnu_ld=no
    wlarc=

# A generic and very simple default shared library creation
# command for GNU C++ for the case where it uses the native
# linker, instead of GNU ld. If possible, this setting should
# overridden to take advantage of the native linker features on
# the platform it is being used on.
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags $wl$soname $wl$export_symbols -o $lib"

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "\-L"

else
    GXX=no
    with_gnu_ld=no
    wlarc=
fi

# PORTME: fill in a description of your system's C++ link characteristics
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
case $host_os in
  aix3*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    aix[4-9]*)
      if test "$host_cpu" = ia64; then
        # On IA64, the linker does run time linking by default, so we don't
        # have to do anything special.
        aix_use_runtimelinking=no
        exp_sym_flag='-Bexport'
        no_entry_flag=""
      else
        aix_use_runtimelinking=no
      fi
      # Test if we are trying to use run time linking or normal
      # AIX style linking. If -brtl is somewhere in LDFLAGS, we
      # need to do runtime linking.
      case $host_os in aix4.[23]|aix4.[23].*|aix[5-9]*)
        for ld_flag in $LDFLAGS; do
          case $ld_flag in
            *-brtl*)
            aix_use_runtimelinking=yes
            break
          ;;
          esac
        done
      ;;
      esac
      exp_sym_flag='-bexport'
      no_entry_flag='-bnoentry'
  fi

  ;;

  exp_sym_flag='-bexport'
  no_entry_flag='-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mminimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

_LT_AC_TAGVAR(archive_cmds, $1)=""
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$SGXX" = yes; then
  case $host_os in aix4.[012]|aix4.[012].*)
    ;;
  esac
else
  ;;
fi
# We only want to do this on AIX 4.2 and lower, the check
# below for broken collect2 doesn't work under 4.3+
collect2name='${CC} -print-prog-name=collect2'
if test -f "$collect2name" && 
  strings "$collect2name" | grep resolve_lib_name >/dev/null 
then
  # We have reworked collect2
  :
else
  # We have old collect2
  _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
  # It fails to find uninstalled libraries when the uninstalled
  # path is not listed in the libpath. Setting hardcode_minus_L
  # to unsupported forces relinking
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
  shared_flag="$shared_flag "${wl}-G"
fi
else
  # not using gcc
  if test "$host_cpu" = ia64; then
    # VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
    # chokes on -Wl,-G. The following line is correct:
    shared_flag='-G'
  else
    if test "$aix_use_runtimelinking" = yes; then
      shared_flag="$shared_flag "${wl}-G"
    else
      shared_flag="$shared_flag '""-bM:SRE'
    fi
  fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then
  # Warning - without using the other runtime loading flags (-brtl),
  # -berok will link without error, but may produce a broken library.
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
# Determine the default libpath from the value encoded in an empty executable.
_LT_AC_SYS_LIBPATH_AIX
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="/\{wl\}-blibpath:$libdir:"saix_libpath"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="/\{wl\}$no_entry_flag" $compiler_flags 'if test "x\{allow_undefined_flag\}" != "x"; then echo "\{wl\}$allow_undefined_flag"; else :: fi: "\{wl\}$exp_sym_flag:\$export_symbols $shared_flag"
else
  if test "$host_cpu" = ia64; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="/\{wl\}-R $libdir:/usr/lib:/lib"
    _LT_AC_TAGVAR(allow_undefined_flag, $1)="-z nodelfs"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="/\{wl\}$shared_flag" -o $output_objdir/$soname $libobjs $deplibs "\{wl\}$no_entry_flag" $compiler_flags $\{wl\}$allow_undefined_flag "$\{wl\}$exp_sym_flag:\$export_symbols"
  else
    # Determine the default libpath from the value encoded in an empty executable.
    _LT_AC_SYS_LIBPATH_AIX
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="/\{wl\}-blibpath:$libdir:"saix_libpath"
    # Warning - without using the other run time loading flags,
    # -berok will link without error, but may produce a broken library.
    _LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-bernotok'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-berok'
    # Exported symbols can be pulled into shared objects from archives
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
    # This is similar to how AIX traditionally builds its shared libraries.
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="/\{wl\}$shared_flag" -o $output_objdir/$soname $libobjs $deplibs $\{wl\}-bnoentry $compiler_flags $\{wl\}-bE:$export_symbols$\{wl\}$allow_undefined_flag~$AR $AR_FLAGS $output_objdir/$libname$release.a $output_objdir/$soname'
    fi
    fi
    ;;

beos*)
  if SLD --help 2>&1 | grep ': supported targets:: * elf' > /dev/null; then
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
    # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
    # support --undefined. This deserves some investigation. FIXME
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -nostart $libobjs $deplibs $compiler_flags $\{wl\}-soname $wl\$soname -o $lib"
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
    ;;
    
chorus*)
  case $cc_basename in
    *)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
  fi
  ;;


cygwin* | mingw* | pw32*)
# _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
# as there is no search path for DLLs.
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-'L$libdir'
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes

if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='
  $CC -shared -nostdlib $predep_objects $libobjs $deplibs
  $postdep_objects $compiler_flags -o $output_objdir/$soname $[w1]--enable-auto-image-base -Xlinker --out-implib
  -Xlinker $lib'
  # If the export-symbols file already is a .def file (1st line
  # is EXPORTS), use it as is; otherwise, prepend...
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)=if test "x'$SED 1q $export_symbols'" = xEXPORTS; then
    cp $export_symbols $output_objdir/$soname.def;
  else
    echo EXPORTS > $output_objdir/$soname.def;
    cat $export_symbols >> $output_objdir/$soname.def;
  fi
  $CC -shared -nostdlib $output_objdir/$soname.def $predep_objects $libobjs $deplibs $postdep_objects
  $compiler_flags -o $output_objdir/$soname $[w1]--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
::

darwin* | rhapsody*)
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_automatic, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
_LT_AC_TAGVAR(allow_undefined_flag, $1)="$_lt_dar_allow_undefined"
if test "SGXX" = yes ; then
  output_verbose_link_cmd='echo'
_LT_AC_TAGVAR(archive_cmds, $1)="\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs \$deplibs \$compiler_flags -install_name \$rpath/\$soname \$verstring \$_lt_dar_single_mod\$_lt_dsymutil"
_LT_AC_TAGVAR(module_cmds, $1)="\$CC \$allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs \$compiler_flags\$_lt_dsymutil"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's:,^,_' < \$export_symbols > \$output_objdir/\$libname\$symbols.expsym-\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs \$deplibs \$compiler_flags -install_name \$rpath/\$soname \$verstring \$_lt_dar_single_mod\$_lt_dar_export_syms\$_lt_dsymutil"

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_LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e 's,\^[^,]*\[,,' < $export_symbols >
\$output_objdir/$[libname]-symbols.expsym-$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplib
\$compiler_flags$[lt där export sym]$[lt dsymutil]"
if test "$lt_cv_apple_cc_single_mod" != "yes"; then
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -r -keep_private_EXTERNs -nostdlib -o $\{lib\}-master.o $libobjs -\$CC -dynamiclib $allow_undefined_flag -o $lib $\{lib\}-master.o $deplib $\$compiler_flags -install_name $\$rpath/$\$soname $\$verstring$[lt dsymutil]"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's,^,_,' < $export_symbols >
\$output_objdir/$[libname]-symbols.expsym-$CC -r -keep_private_EXTERNs -nostdlib -o $\{lib\}-master.o $libobjs -\$CC -dynamiclib $allow_undefined_flag -o $lib $\{lib\}-master.o $deplib $\$compiler_flags -install_name $\$rpath/$\$soname $\$verstring$[lt dsymutil]"
fi
else
  case $cc_basename in
    xlc*)
    outputVerbose_link_cmd='echo'
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -qmkshrobj $wl-single_module $allow_undefined_flag -o $lib $libobjs $deplib scompiler_flags $\{wl\}-install_name $\{wl\} echo $\$rpath/$\$soname' $xlcverstring'
    _LT_AC_TAGVAR(module_cmds, $1)='$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplib scompiler_flags'
    # Don't fix this by using the ld -exported_symbols_list flag, it doesn't exist in older darwin lds
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed -e "s,^[^,]*\[,,' < $export_symbols > $output_objdir/$[libname]-symbols.expsym-$CC -qmkshrobj $\{wl\}-single_module $allow_undefined_flag -o $\libobjs $\deplib scompiler_flags $\{wl\}-install_name $\{wl\} $\rpath/$\soname $\xlcverstring-nmedit -s $output_objdir/$[libname]-symbols.expsym $\{lib\}"
    _LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e "s,^[^,]*\[,,' < $export_symbols > $output_objdir/$[libname]-symbols.expsym-$CC $allow_undefined_flag -o $\lib $\deplib scompiler_flags-nmedit -s $output_objdir/$[libname]-symbols.expsym $\{lib\}"
    ;;
    *)
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    esac
  fi
  ;;
dgux*)
  case $cc_basename in
    ec++)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    ghcx*)
    # Green Hills C++ Compiler
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    *)
# FIXME: insert proper C++ library support

```c
_LT_AC_TAGVAR(ld_shlibs, $1)=no
```

```c
;;
esac
```

```c
freebsd[[12]]*
```

```c
# C++ shared libraries reported to be fairly broken before switch to ELF

```c
_LT_AC_TAGVAR(ld_shlibs, $1)=no
```

```c
;;
```

```c
freebsd-elf*
```

```c
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
```

```c
;;
```

```c
freebsd* | dragonfly*
```

```c
# FreeBSD 3 and later use GNU C++ and GNU ld with standard ELF
# conventions

```c
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
```

```c
;;
gnu*
```

```c
;;
```

```c
hpux9*
```

```c
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
```

```c
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
```

```c
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
```

```c
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
```

```c
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
```

```c
# but as the default
```

```c
# location of the library.
```

```c
case $cc_basename in
```

```c
CC*)
```

```c
# FIXME: insert proper C++ library support

```c
_LT_AC_TAGVAR(ld_shlibs, $1)=no
```

```c
;;
```

```c
aCC*)
```

```c
_LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -b $[wl1]+b $[wl]$install_libdir -o
```

```c
$output_objdir/$soname $predep_objects $libobjs $undeplibs $postdep_objects $compiler_flags~test
```

```c
$output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
```

```c
# Commands to make compiler produce verbose output that lists
```

```c
# what "hidden" libraries, object files and flags are used when
```

```c
# linking a shared library.
```

```c
#
```

```c
# There doesn't appear to be a way to prevent this compiler from
```

```c
# explicitly linking system object files so we need to strip them
```

```c
# from the output so that they don't get included in the library
```

```c
# dependencies.
```

```c
output_verbose_link_cmd='templist=('$(CC -b $CFLAGS -v conftest.$objext 2>&1) | grep "([-]L)"; list=""; for z in $templist; do case $z in conftest.$objext) list="$list $z";: *.objext);: *) list="$list $z";: esac; done; echo $list'
```

```c
;
```
if test "SGXX" = yes; then
  _LT_AC_TAGVAR(archive_cmds, $1)="rm $output_objdir/$soname ~$CC -shared -nostdlib -fPIC $[w1]+b $[w1]$install_libdir -o $output_objdir/$soname $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib"
  else
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
fi
::
esac
::

hpux10*|hpux11*)
if test $with_gnu_ld = no; then
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b $[wl]libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
  case $host_cput in
    hppa*64*|a64*) ;;
    *)
      _LT_AC_TAGVAR(archive_cmds, $1)="$CC -b ${wl}+h ${wl}$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib"
    esac
    ::
esac
  fi
  case $host_cpu in
    hppa*64*|a64*)
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ::
    *)
      _LT_AC_TAGVAR(hardcode_direct, $1)=yes
      _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=yes # Not in the search PATH,
      # but as the default
      # location of the library.
      ::
esac
  esac
  case $cc_basename in
    CC*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ::
    aCC*)
  esac
  case $host_cpu in
    hppa*64*)
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -b $[w1]+h $[w1]$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
    ::
ia64*)

_LT_AC_TAGVAR(archive_cmds, $1)="$CC -b $w1+h $w1$soname $w1+nodefaultpath -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'

;;
*)

_LT_AC_TAGVAR(archive_cmds, $1)="$CC -b $w1+h $w1$soname $w1+b $w1$install_libdir -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'

;;

esac

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.

output_verbose_link_cmd='templist=('$(CC -b $CFLAGS -v conftest.$objext 2>&1) | grep "^-L": list="": for z in $templist; do case $z in conftest.$objext) list="$list $z"; ;; *.$objext);; *) list="$list $z"; esac; done; echo $list'

;;
*)

if test "$GXX" = yes; then
    if test $with_gnu_ld = no; then
        case $host_cpu in
        hppa*64*)
            _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib -fPIC $w1+h $w1$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
        ia64*)
            _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib -fPIC $w1+h $w1$soname $w1+nodefaultpath -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
        *)
            _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib -fPIC $w1+h $w1$soname $w1+b $w1$install_libdir -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
        esac
    fi
else
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

;;

esac
else
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
fi

;;

esac

;;

interix[[3-9]]*)

_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
# Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
# Instead, shared libraries are loaded at an image base (0x10000000 by
# default) and relocated if they conflict, which is a slow very memory
# consuming and fragmenting process. To avoid this, we pick a random,
# 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
# time. Moving up from 0x10000000 also allows more sbrk(2) space.

_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $libobjs $deplibs $compiler_flags $[wl]-h,$soname $[wl]--image-base,'expr ${RANDOM-$$} % 4096 / 2 * 262144 + 1342177280' -o $lib"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$sed "^_.,." $export_symbols
>$output_objdir/$soname.expsym_cmds, $1)="$CC -shared $pic_flag $libobjs $deplibs $compiler_flags $[wl]-h,$soname $[wl]--retain-symbols-file,$output_objdir/$soname.expsym
"expr ${RANDOM-$$} % 4096 / 2 * 262144 + 1342177280' -o $lib"

;;
irix5* | irix6*)
  case $cc_basename in
    CC*)
      # SGI C++
      _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -all -multigot $predep_objects $libobjs $deplibs
 Stanton_objects $compiler_flags -soname $soname 'test -n "$verstring" && echo -set_version "$verstring" -
update_registry $[output_objdir]/so_locations -o $lib"

# Archives containing C++ object files must be created using
# "CC -ar", where "CC" is the IRIX C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)="$CC -ar -WR,-u -o $oldlib $oldobjs"

;;
*)
if test "$SGXX" = yes; then
  if test "$with.gnu.ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs
 Stanton_objects $compiler_flags $[wl]-soname $[wl]$soname 'test -n "$verstring" && echo $[wl]-set_version
$[wl]$verstring' $[wl]-update_registry $[wl]$[output_objdir]/so_locations -o $lib" else
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs
 Stanton_objects $compiler_flags $[wl]-soname $[wl]$soname 'test -n "$verstring" && echo $[wl]-set_version
$[wl]$verstring' -o $lib" fi
fi
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
::
esac
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="/libdir/$libdir"
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:;;

linux* | k*bsd*-gnu)
case $cc_basename in
  KCC*)
  # Kuck and Associates, Inc. (KAI) C++ Compiler

  # KCC will only create a shared library if the output file
  # ends with ".so" (or ".sl" for HP-UX), so rename the library
  # to its proper name (with version) after linking.
  _LT_AC_TAGVAR(archive_cmds, $1)=\tempext=\echo $shared_ext \$SED -e "s/\(\([^()0-9A-Za-z{}\]\)}/\\\1/g\"; templib=\echo $lib \$SED -e "s/\$\{tempext\}\.*/.so/"; $CC $predep_objects $libobjs $deplibs $postdep_objects
  $compiler_flags --soname $soname -o \$templib; mv \$templib \$lib'

  _LT_AC_TAGVAR(archive_expsym_cmds, $1)=\tempext=\echo $shared_ext \$SED -e "s/\(\([^()0-9A-Za-
  z{}\]\)}/\\\1/g\"; templib=\echo $lib \$SED -e "s/\$\{tempext\}\.*/.so/"; $CC $predep_objects $libobjs $deplibs
  $postdep_objects $compiler_flags --soname $soname -o \$templib ${wl}-retain-symbols-file,$export_symbols; mv \$templib \$lib'

  # Commands to make compiler produce verbose output that lists
  # what "hidden" libraries, object files and flags are used when
  # linking a shared library.

  # There doesn't appear to be a way to prevent this compiler from
  # explicitly linking system object files so we need to strip them
  # from the output so that they don't get included in the library
  # dependencies.
  output_verbose_link_cmd='templist=$CC $CFLAGS -v conftest.$objext -o libconftest$shared_ext 2>&1 | grep
  "ld"; rm -f libconftest$shared_ext; list=""; for z in $templist; do case $z in conftest.$objext) list="$list $z";;
  *.$objext);; *) list="$list $z";;esac; done; echo $list'

  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath,$libdir'

  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

  # Archives containing C++ object files must be created using
  # "CC -Bstatic", where "CC" is the KAI C++ compiler.
  _LT_AC_TAGVAR(old_archive_cmds, $1)="$CC -Bstatic -o $oldlib $oldobjs'

  ;;
  icpc*)
  # Intel C++
  with_gnu_ld=yes
  # version 8.0 and above of icpc choke on multiply defined symbols
  # if we add $predep_objects and $postdep_objects, however 7.1 and
  # earlier do not add the objects themselves.
  case 'SCC -V 2>&1' in
    "Version 7."

  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $predep_objects $libobjs $deplibs $postdep_objects
  $compiler_flags $wl-soname $wl$soname -o $wl$lib'

  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $predep_objects $libobjs $deplibs
  $postdep_objects $compiler_flags $wl-soname $wl$soname $wl-retain-symbols-file $wl$export_symbols -o
  $wl$lib'

  ;;
  *) # Version 8.0 or newer
case $host_cpu in
    ia64*) tmp_idyn=' -i_dynamic';;
esac

_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared""$tmp_idyn"" $libobjs $deplibs $compiler_flags $[wl]-soname $wl$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared""$tmp_idyn"" $libobjs $deplibs $compiler_flags $[wl]-soname $wl$soname $[wl]-retain-symbols-file $wl$export_symbols -o $lib'

;;
esac
_LT_AC_TAGVAR(archive_cmds_need lc, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive$convenience ${wl}--no-whole-archive'

pgCC* | pgcpp*)
    # Portland Group C++ compiler
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname $[wl]-retain-symbols-file $wl$export_symbols -o $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience" ${wl}--no-whole-archive'

;;
cxx*)
    # Compaq C++
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname $[wl]-retain-symbols-file $wl$export_symbols'

runpath_var=LD_RUN_PATH
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='"-rpath $libdir'
output_verbose_link_cmd='templist='echo $templist | $SED "s/\(^.*ld.*\)\(.*ld .*$\)/\1/"'; list=''; for z in $templist; do case $z in conftest.$objext);; *) list="$list $z"; esac; done; echo $list'

case `$CC -V 2>&1 | sed 5q` in
  *Sun\ C*)
    # Sun C++ 5.9
    _LT_AC_TAGVAR(no_undefined_flag, $1)=' -zdefs'
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G${allow_undefined_flag} -h$soname -o $lib $predep_objects
    $libobjs $deplibs $predep_objects $lib $predep_objects $lib $predep_objects $lib $predep_objects $lib
    _LT_AC_TAGVAR(archive_expSYM_cmds, $1)='$CC -G${allow_undefined_flag} -h$soname -o $lib
    $predep_objects $libobjs $deplibs $predep_objects $compiler_flags $wl,retain-symbols-file
    $wl$export_symbols'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'new_convenience=; for conv in $convenience""; do test -z "$conv" || new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience" ${wl}--no-whole-archive'

  # Not sure whether something based on
  # $CC $CFLAGS -v conftest.$objext -o libconftest$shared_ext 2>&1
  # would be better.
  output_verbose_link_cmd='echo'

  # Archives containing C++ object files must be created using
  # "CC -xar", where "CC" is the Sun C++ compiler. This is
  # necessary to make sure instantiated templates are included
  # in the archive.
  _LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -xar -o $oldlib $oldobjs'

  esac

  esac
  ;;
lynxos*)
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no

  ;;
m88k*)
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no

  ;;
mvs*)
  case $cc_basename in
    cxx*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no

    ;;
# FIXME: insert proper C++ library support

```c
LT_AC_TAGVAR(ld_shlibs, $1)=no

esac

netbsd*)
if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
  LT_AC_TAGVAR(archive_cmds, $1)="/LD -Bshareable -o $lib $predep_objects $libobjs $deplibs
postdep_objects $linker_flags"
wlarc=
  LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  LT_AC_TAGVAR(hardcode_direct, $1)=yes
  LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
fi

# Workaround some broken pre-1.5 toolchains
output_verbose_link_cmd="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep conftest.$objext | $SED -e "s:-lgcc -lc -lgcc::"

openbsd2*)
  # C++ shared libraries are fairly broken
  LT_AC_TAGVAR(ld_shlibs, $1)=no

openbsd*)
if test -f /usr/libexec/ld.so; then
  LT_AC_TAGVAR(hardcode_direct, $1)=yes
  LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  LT_AC_TAGVAR(archive_cmds, $1)="/CC -shared $pic_flag $predep_objects $libobjs $deplibs
postdep_objects $compiler_flags -o $lib"
wlarc=
  LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
  LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  LT_AC_TAGVAR(archive_cmds, $1)="/CC -shared $pic_flag $predep_objects $libobjs $deplibs
postdep_objects $compiler_flags ${wl}-retain-symbols-file,$export_symbols -o $lib"
wlarc=
  LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
  LT_AC_TAGVAR(whole_archive_flag_spec, $1)="/wlarc"--whole-archive$convenience "$wlarc"--no-whole-archive'
fi
output_verbose_link_cmd='echo'
else
  LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

osf3*)
case $cc_basename in
  KCC*)
  # Kuck and Associates, Inc. (KAI) C++ Compiler

  # KCC will only create a shared library if the output file
# ends with ".so" (or ".sl" for HP-UX), so rename the library
# to its proper name (with version) after linking.
_LT_AC_TAGVAR(archive_cmds, $1)="tempxt=`echo $shared_ext | $SED -e 'v$\([^()0-9A-Za-z{}]\)$';
templib=`echo $lib | $SED -e "s/$\{tempxt\}\..*/.so/"`; $CC $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags --soname $soname -o $templib; mv $templib $lib"

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Archives containing C++ object files must be created using
# "CC -Bstatic", where "CC" is the KAI C++ compiler.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -Bstatic -o $oldlib $oldobjs'

;;
   RCC*)
# Rational C++ 2.4.1
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
   cxx*)
_LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}\*'
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags $[wl]-soname $soname 'test -n "$verstring" && echo $[wl]-set_version
$verstring' -update_registry $(output_objdir)/so_locations -o $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist=''
   templist=`echo $templist | $SED "s/\([^.*ld.*\)]\(.*ld.*\)/\1/"`; list=""; for z in $templist; do case $z in
   conftest.$objext) list="$list $z";; *.$objext) list="$list $z";; esac; done; echo $list'
;;
*)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
_LT_AC_TAGVAR(allow_undefined_flag, $1)=' $[wl]-expect_unresolved $[wl]\*'
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $allow_undefined_flag $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $[wl]$soname 'test -n "$verstring" && echo $[wl]-set_version $[wl]$verstring' -update_registry $(output_objdir)/so_locations -o $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath $[wl]$libdir'
LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='"$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "-L""'

else
  # FIXME: insert proper C++ library support
  LT_AC_TAGVAR(ld_shlibs, $1)=no
fi ::
  esac
::
  osf4* | osf5*)
  case $cc_basename in
    KCC*)
      # Kuck and Associates, Inc. (KAI) C++ Compiler
      
      # KCC will only create a shared library if the output file
      # ends with ".so" (or ".sl" for HP-UX), so rename the library
      # to its proper name (with version) after linking.
      LT_AC_TAGVAR(archive_cmds, $1)=
        'tempext='echo $shared_ext | $SED -e '{s/\[[^()0-9A-Za-z{}]\]/\\\1/g}'
        
        templib='echo $lib | $SED -e "s/\$\{tempext\}\_/\_/so/"
        SCC $predep_objects $libobjs $deplibs $postdep_objects
        $compiler_flags --soname $soname -o $templib; mv $templib $lib'

      LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir
      LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    RCC*)
      # Rational C++ 2.4.1
      # FIXME: insert proper C++ library support
      LT_AC_TAGVAR(ld_shlibs, $1)=no
    ::
      cxx*)
      LT_AC_TAGVAR(allow_undefined_flag, $1)='-expect_unresolved "*"
      LT_AC_TAGVAR(archive_cmds, $1)=
        "$CC -shared\{ allow_undefined_flag \} $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags -msym -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -
        update_registry $(output_objdir)/so_locations -o $lib'
      LT_AC_TAGVAR(archive_expsym_cmds, $1)=
        for i in 'cat $export_symbols'; do printf '' %s %s\n"exported_symbol "$i" >> $lib.exp; done~
        echo "-hidden">> $lib.exp~
        $CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -msym -soname $soname -Wl,-input -Wl,$lib.exp 'test -n "$verstring" && echo -set_version$verstring' -update_registry
Open Source Used In Finesse 12.0(1)

This page contains code snippets related to building and linking shared libraries. The code is written in the context of a specific build system, likely GNU Autotools, and deals with various flags and commands for controlling the build process. Here are some key points:

- The code snippet demonstrates how to output verbose link commands that list all libraries and flags used when linking a shared library.
- It includes conditional logic for different operating systems and compilers, ensuring that the build process is tailored to the specific environment.
- Commands are used to set flags and variables that control how the compiler and linker behave, such as `-rpath` for specifying library directories.

Overall, the code is focused on ensuring that the compiled libraries are properly linked and that all necessary dependencies are accounted for in the final shared library.
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
lcc*)
# Lucid
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
;;
solaris*)
case $ccbasename in
 CC*)
# Sun C++ 4.2, 5.x and Centerline C++
_LT_AC_TAGVAR(archive_cmds_need_lc,$1)=yes
_LT_AC_TAGVAR(no_undefined_flag, $1)=`-zdefs'
_LT_AC_TAGVAR(archive_cmds, $1)="CC -G$allow_undefined_flag -h$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="/dev/null " echo [{ global:" > $lib.exp-cat $export_symbols | $SED -e "s/\([.\[]/\1/; >> $lib.exp>$echo "local: *; };");" >> $lib.exp-
SCC -G$allow_undefined_flag $wl-M $wl$lib.exp -h$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~$rm $lib.exp"

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=`-R$libdir'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
case $host_os in
 solaris2.[{0-5}] | solaris2.[{0-5}].*) ;;
*)
# The compiler driver will combine and reorder linker options,
# but understands `-z linker_flag'.
# Supported since Solaris 2.6 (maybe 2.5.1?)
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=`-z allextract$convenience -z defaultextract'
;;
esac
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

output_verbose_link_cmd=`echo`

# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)="/dev/null " echo [{ global:" > $lib.exp-cat $export_symbols | $SED -e "s/\([.\[]/\1/; >> $lib.exp>
SCC -G$allow_undefined_flag $wl-M $wl$lib.exp -h$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~$rm $lib.exp"

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=`-R$libdir'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
case $host_os in
 solaris2.[{0-5}] | solaris2.[{0-5}].*) ;;
*)
# The compiler driver will combine and reorder linker options,
# but understands `-z linker_flag'.
# Supported since Solaris 2.6 (maybe 2.5.1?)
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=`-z allextract$convenience -z defaultextract'
;;
esac
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

output_verbose_link_cmd=`echo`

# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)="/dev/null " echo [{ global:" > $lib.exp-cat $export_symbols | $SED -e "s/\([.\[]/\1/; >> $lib.exp>
SCC -G$allow_undefined_flag $wl-M $wl$lib.exp -h$soname -o $lib $predep_objects $libobjs $postdep_objects $compiler_flags~$rm $lib.exp"

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=`-R$libdir'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
case $host_os in
 solaris2.[{0-5}] | solaris2.[{0-5}].*) ;;
*)
# The compiler driver will combine and reorder linker options,
# but understands `-z linker_flag'.
# Supported since Solaris 2.6 (maybe 2.5.1?)
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=`-z allextract$convenience -z defaultextract'
;;
esac
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

output_verbose_link_cmd=`echo`

# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
# Green Hills C++ Compiler

```bash
_LT_AC_TAGVAR(archive_cmds, $1)="CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-h $wl$soname -o $lib"

# The C++ compiler must be used to create the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)="CC $LDFLAGS -archive -o $oldlib $oldobjs"

# GNU C++ compiler with Solaris linker
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-z ${wl}defs'
  if $CC --version | grep -v '^2.7' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)="CC -shared -nostdlib $LDFLAGS $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-h $wl$soname -o $lib"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="echo '{ global: " global: "$lib.exp-cat $export_symbols | $SED -e "s/\(^.*\)/\1;/" >> $lib.exp $echo "local: *; };" >> $lib.exp~$CC -shared -nostdlib $[wl]-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~$rm $lib.exp"
    else
      _LT_AC_TAGVAR(archive_cmds, $1)="CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep \"\-L\"
    fi
  else
    _LT_AC_TAGVAR(archive_cmds, $1)="CC -G -nostdlib $LDFLAGS $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-h $wl$soname -o $lib"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="echo '{ global: "$lib.exp-cat $export_symbols | $SED -e "s/\(^.*\)/\1/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~$CC -G -nostdlib $[wl]-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~$rm $lib.exp"
    fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep \"\-L\"
else
  # g++ 2.7 appears to require `-G' NOT `-shared' on this
  # platform.
  _LT_AC_TAGVAR(archive_cmds, $1)="CC -G -nostdlib $LDFLAGS $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-h $wl$soname -o $lib"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="echo '{ global: "$lib.exp-cat $export_symbols | $SED -e "s/\(^.*\)/\1/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~$CC -G -nostdlib $[wl]-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~$rm $lib.exp"
fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="CC -G $CFLAGS -v conftest.$objext 2>&1 | grep \"\-L\"
```

# Open Source Used In Finesse 12.0(1)
### Open Source Used In Finesse 12.0(1)

```bash
fi
::
esac
::
sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[01].[10] | unixware7* | sco3.2v5.0.[024]*)
_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
runpath_var='LD_RUN_PATH'

case $cc_basename in
  CC*)
_LT_AC_TAGVAR(archive_cmds, $1)='${CC -G $[wl]-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='${CC -G $[wl]-Bexport:$export_symbols $[wl]-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
::
  *)
_LT_AC_TAGVAR(archive_cmds, $1)='${CC -shared $[wl]-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='${CC -shared $[wl]-Bexport:$export_symbols $[wl]-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
::
esac
::
sysv5* | sco3.2v5* | sco5v6*)
  # Note: We can NOT use -z defs as we might desire, because we do not
  # link with -lc, and that would cause any symbols used from libc to
  # always be unresolved, which means just about no library would
  # ever link correctly. If we're not using GNU ld we use -z text
  # though, which does catch some bad symbols but isn't as heavy-handed
  # as -z defs.
  # For security reasons, it is highly recommended that you always
  # use absolute paths for naming shared libraries, and exclude the
  # DT_RUNPATH tag from executables and libraries. But doing so
  # requires that you compile everything twice, which is a pain.
  # So that behaviour is only enabled if SCOABSPATH is set to a
  # non-empty value in the environment. Most likely only useful for
  # creating official distributions of packages.
  # This is a hack until libtool officially supports absolute path
  # names for shared libraries.
_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
_LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=''test -z "$SCOABSPATH" && echo ${wl}-R,$libdir''
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
runpath_var='LD_RUN_PATH'
```

---

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case "$cc_basename in
  CC*)
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -G ${wl}-h,$SCOABSPATH:+$install_libdir]/$soname -o $lib
  Sliboobjs $deplibs $compiler_flags"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -G ${wl}-Bexport:$export_symbols $wl-,
  h,$SCOABSPATH:+$install_libdir]/$soname -o $lib $libobjs $deplibs $compiler_flags"
  ;;
  *)
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $wl-h,$SCOABSPATH:+$install_libdir]/$soname -o
  $lib $libobjs $deplibs $compiler_flags"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $wl-Bexport:$export_symbols $wl-h,
  $SCOABSPATH:+$install_libdir]/$soname -o $lib $libobjs $deplibs $compiler_flags"
  ;;
  esac
  tandem*)
  case "$cc_basename in
  NCC*)
  # NonStop-UX NCC 3.20
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
  *)
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
  esac
  vxworks*)
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
  *)
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
  esac
AC_MSG_RESULT([$_LT_AC_TAGVAR(ld_shlibs, $1)])
test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no & can_build_shared=no

_LT_AC_TAGVAR(GCC, $1)="$GXX"
_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_POSTDEP_PREDEP($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC=$lt_save_CC
LDCXX=$LD
LD=$lt_save_LD
GCC=$lt_save_GCC
with_gnu_ldcxx=$with_gnu_ld
with_gnu_ld=$lt_save_with_gnu_ld
lt_cv_path_LDCXX=$lt_cv_path_LD
lt_cv_path_LD=$lt_save_path_LD
lt_cv_prog_gnu_ldcxx=$lt_cv_prog_gnu_ld
lt_cv_prog_gnu_ld=$lt_save_with_gnu_ld
)

)# AC_LIBTOOL_LANG_CXX_CONFIG

# AC_LIBTOOL_POSTDEP_PREDEP([TAGNAME])
# ------------------------------------
# Figure out "hidden" library dependencies from verbose
# compiler output when linking a shared library.
# Parse the compiler output and extract the necessary
# objects, libraries and library flags.
AC_DEFUN([AC_LIBTOOL_POSTDEP_PREDEP],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
dnl we can't use the lt_simple_compile_test_code here,
dnl because it contains code intended for an executable,
dnl not a library.  It's possible we should let each
dnl tag define a new lt_????_link_test_code variable,
dnl but it's only used here...
ifelse($1),[],[cat > conftest.$ac_ext <<EOF
int a;
void foo (void) { a = 0; }
EOF ]$1],[],[cat > conftest.$ac_ext <<EOF
class Foo
{
public:
  Foo (void) { a = 0; }
private:
  int a;
};
EOF ]$1],[],[F77],[],[cat > conftest.$ac_ext <<EOF
  subroutine foo
  implicit none
integer*4 a
a=0
return
end
EOF
],[$1],[GCJ],[cat > conftest.$ac_ext <<EOF
public class foo {
    private int a;
    public void bar (void) {
        a = 0;
    }
};
EOF
]
)
dnl Parse the compiler output and extract the necessary
dnl objects, libraries and library flags.
if AC_TRY_EVAL(ac_compile); then
    # Parse the compiler output and extract the necessary
    # objects, libraries and library flags.
    # Sentinel used to keep track of whether or not we are before
    # the conftest object file.
    pre_test_object_deps_done=no

    # The "*" in the case matches for architectures that use 'case' in
    # $output_verbose_cmd can trigger glob expansion during the loop
    # eval without this substitution.
    output_verbose_link_cmd='$echo "X$output_verbose_link_cmd" | $Xsed -e "$no_glob_subst"

    for p in 'eval $output_verbose_link_cmd'; do
        case $p in
            -L* | -R* | -l*)
                # Some compilers place space between "-{L,R}" and the path.
                # Remove the space.
                if test $p = "-L" \
                    || test $p = "-R"; then
                    prev=$p
                    continue
                else
                    prev=
                fi

                if test "$pre_test_object_deps_done" = no; then
                    case $p in
                        -L* | -R*)
                            # Internal compiler library paths should come after those
                            # provided the user. The postdeps already come after the
# user supplied libs so there is no need to process them.
if test -z "$_LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
  _LT_AC_TAGVAR(compiler_lib_search_path, $1)="${prev}${p}"
else
  _LT_AC_TAGVAR(compiler_lib_search_path, $1)="$_LT_AC_TAGVAR(compiler_lib_search_path, $1) ${prev}${p}"
fi
::
# The "-l" case would never come before the object being
# linked, so don't bother handling this case.
esac
else
  if test -z "$_LT_AC_TAGVAR(postdeps, $1)"; then
    _LT_AC_TAGVAR(postdeps, $1)="${prev}${p}"
  else
    _LT_AC_TAGVAR(postdeps, $1)="$_LT_AC_TAGVAR(postdeps, $1) ${prev}${p}"
  fi
  fi
  ::
.*.
# This assumes that the test object file only shows up
# once in the compiler output.
if test "$p" = "conftest.
pre_test_object_deps_done=yes
continue
fi
if test "$pre_test_object_deps_done" = no; then
if test -z "$_LT_AC_TAGVAR(predep_objects, $1)"; then
  _LT_AC_TAGVAR(predep_objects, $1)="$p"
else
  _LT_AC_TAGVAR(predep_objects, $1)="$_LT_AC_TAGVAR(predep_objects, $1) $p"
fi
else
if test -z "$_LT_AC_TAGVAR(postdep_objects, $1)"; then
  _LT_AC_TAGVAR(postdep_objects, $1)="$p"
else
  _LT_AC_TAGVAR(postdep_objects, $1)="$_LT_AC_TAGVAR(postdep_objects, $1) $p"
fi
fi
::
*) ;; # Ignore the rest.
esac
done
# Clean up.
rm -f a.out a.exe
else
echo "libtool.m4: error: problem compiling $1 test program"
fi

$rm -f confest.$objext

_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=
if test -n "$LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)="$LT_AC_TAGVAR(compiler_lib_search_dirs, $1)"
$SED "-e 's! -L! !g' -e 's!^ !!''
fi

# PORTME: override above test on systems where it is broken
ifelse([$1], [CXX],
[case $host_os in
  interix[3-9]*)
  # Interix 3.5 installs completely hosed .la files for C++, so rather than
  # hack all around it, let's just trust "g++" to DTRT.
  _LT_AC_TAGVAR(predep_objects,$1)=
  _LT_AC_TAGVAR(postdep_objects,$1)=
  _LT_AC_TAGVAR(postdeps,$1)=
  ;;
  linux*)
case '$CC -V 2>&1 | sed 5q' in
  *Sun\ C*)
  #$ Sun C++ 5.9
  #
  # The more standards-conforming stlport4 library is
  # incompatible with the Cstd library. Avoid specifying
  # it if it's in CXXFLAGS. Ignore libCrun as
  # -library=stlport4 depends on it.
  case " $CXX $CXXFLAGS " in
    ** .library=stlport4 "*
      solaris_use_stlport4=yes
    ;;
    esac
  esac
  if test "$solaris_use_stlport4" != yes; then
    _LT_AC_TAGVAR(postdeps,$1)="-library=Cstd -library=Crun"
  fi
  ;;
  esac
  ;;
  solaris*)
case $cc_basename in

# The more standards-conforming stlport4 library is
# incompatible with the Cstd library. Avoid specifying
# it if it's in CXXFLAGS. Ignore libCrn as
# -library=stlport4 depends on it.
case " $CXX $CXXFLAGS " in
  *" -library=stlport4 ")*
    solaris_use_stlport4=yes
  ;;
esac

# Adding this requires a known-good setup of shared libraries for
# Sun compiler versions before 5.6, else PIC objects from an old
# archive will be linked into the output, leading to subtle bugs.
if test "$solaris_use_stlport4" != yes; then
  _LT_AC_TAGVAR(postdeps,$1)='-library=Cstd -library=Crun'
  fi
  ;;
esac
  ;;
esac
)
case " $_LT_AC_TAGVAR(postdeps, $1) " in
  *" -lc ")_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  esac
)
)

# AC_LIBTOOL_LANG_F77_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_F77_CONFIG], [_LT_AC_LANG_F77_CONFIG(F77)])
AC_DEFUN([_LT_AC_LANG_F77_CONFIG],
  [AC_REQUIRE([AC_PROG_F77])
  AC_LANG_PUSH(Fortran 77)
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=
  _LT_AC_TAGVAR(always_export_symbols, $1)=no
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)=
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
  _LT_AC_TAGVAR(hardcode_direct, $1)=no
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=no
  _LT_AC_TAGVAR(hardcode_automatic, $1)=no


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_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Source file extension for f77 test sources.
ac_ext=f

# Object file extension for compiled f77 test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="\n  subroutine t
  return
  end
"

# Code to be used in simple link tests
lt_simple_link_test_code="\n  program t
  end
"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${F77-"f77"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([&compiler])

AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([can_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$can_build_shared" = "no" && enable_shared=no
# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
aix3*)
test "$enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
    archive_cmds="$archive_cmds~$RANLIB $lib"
    postinstall_cmds="$RANLIB $lib"
fi
::
aix[[4-9]*)
if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
test "$enable_shared" = yes && enable_static=no
fi
::
esac
AC_MSG_RESULT($enable_shared)

AC_MSG_CHECKING(whether to build static libraries)
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT($enable_static)

_LT_AC_TAGVAR(GCC, $1)="$G77"
_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
})# AC_LIBTOOL_LANG_F77_CONFIG

# AC_LIBTOOL_LANG_GCJ_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_GCJ_CONFIG], [LT_AC_LANG_GCJ_CONFIG(GCJ)])
AC_DEFUN([LT_AC_LANG_GCJ_CONFIG], [AC_LANG_SAVE]
# Source file extension for Java test sources.
ac_ext=java

# Object file extension for compiled Java test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="class foo { }
"

# Code to be used in simple link tests
lt_simple_link_test_code='public class conftest { public static void main(String[][] argv) { }; }'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=$(GCJ-"gcj")
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([compiler])

# GCJ did not exist at the time GCC didn't implicitly link libc in.
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCALLS_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
}) # AC_LIBTOOL_LANG_GCJ_CONFIG
# AC_LIBTOOL_LANG_RC_CONFIG
# -------------------------
# Ensure that the configuration vars for the Windows resource compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_RC_CONFIG], [LT_AC_LANG_RC_CONFIG(RC)])
AC_DEFUN([LT_AC_LANG_RC_CONFIG], [AC_LANG_SAVE

# Source file extension for RC test sources.
ac_ext=rc

# Object file extension for compiled RC test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code='sample MENU { MENUITEM "&Soup", 100, CHECKED }'

# Code to be used in simple link tests
lt_simple_link_test_code="$lt_simple_compile_test_code"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${RC-"windres"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])
_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes

AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
)

# AC_LIBTOOL_CONFIG([TAGNAME])
# -----------------------------
# If TAGNAME is not passed, then create an initial libtool script
# with a default configuration from the untagged config vars. Otherwise
# add code to config.status for appending the configuration named by
# TAGNAME from the matching tagged config vars.
AC_DEFUN([AC_LIBTOOL_CONFIG],
[  # The else clause should only fire when bootstrapping the
  # libtool distribution, otherwise you forgot to ship ltmain.sh
  # with your package, and you will get complaints that there are
  # no rules to generate ltmain.sh.
  if test -f "$ltmain"; then
    # See if we are running on zsh, and set the options which allow our commands through
    # without removal of \ escapes.
    if test -n "${ZSH_VERSION+set}" ; then
      setopt NO_GLOB_SUBST
    fi
  # Now quote all the things that may contain metacharacters while being
  # careful not to overquote the AC_SUBSTed values. We take copies of the
  # variables and quote the copies for generation of the libtool script.
  for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC LTCFLAGS NM \ 
    SED SHELL STRIP \ 
    libname_spec library_names_spec soname_spec extract_expsyms_cmds \ 
    old_striplib striplib file_magic_cmd finish_cmds finish_eval \ 
    deplibs_check_method reload_flag reload_cmds need_locks \ 
    lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \ 
    lt_cv_sys_global_symbol_to_c_name_address \ 
    sys_lib_search_path_spec sys_lib_dlsearch_path_spec \ 
    old_postinstall_cmds old_postuninstall_cmds \ 
    _LT_AC_TAGVAR(compiler, $1) \ 
    _LT_AC_TAGVAR(CC, $1) \ 
    _LT_AC_TAGVAR(LD, $1) \ 
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1) \ 
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1) \ 
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1) \ 
    _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1) \ 
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1) \ 
    _LT_AC_TAGVAR(thread_safe_flag_spec, $1) \ 
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1) \ 
    _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1) \ 
    _LT_AC_TAGVAR(old_archive_cmds, $1) \ 
    _LT_AC_TAGVAR(old_archive_from_new_cmds, $1) \ 
    _LT_AC_TAGVAR(predep_objects, $1) \ 
    _LT_AC_TAGVAR(postdep_objects, $1) \ 
    _LT_AC_TAGVAR(predeps, $1) \ 
    _LT_AC_TAGVAR(postdeps, $1) \ 
    _LT_AC_TAGVAR(compiler_lib_search_path, $1) \ 
    _LT_AC_TAGVAR(compiler_lib_search_dirs, $1) \ 
    _LT_AC_TAGVAR(archive_cmds, $1) \ 
    _LT_AC_TAGVAR(archive_expsym_cmds, $1) \ 
    _LT_AC_TAGVAR(postinstall_cmds, $1) \ 
    _LT_AC_TAGVAR(postuninstall_cmds, $1) \ 
]
case $var in
  _LT_AC_TAGVAR(old_archive_cmds, $1) | \
  _LT_AC_TAGVAR(old_archive_from_new_cmds, $1) | \
  _LT_AC_TAGVAR(archive_cmds, $1) | \
  _LT_AC_TAGVAR(archive_expsym_cmds, $1) | \
  _LT_AC_TAGVAR(module_cmds, $1) | \
  _LT_AC_TAGVAR(module_expsym_cmds, $1) | \
  _LT_AC_TAGVAR(export_symbols_cmds, $1) | \
  extract_expsym_cmds | reload_cmds | finish_cmds | \
  postinstall_cmds | postuninstall_cmds | \
  old_postinstall_cmds | old_postuninstall_cmds | \
  sys_lib_search_path_spec | sys_lib_dlsearch_path_spec)
    # Double-quote double-evalued strings.
    eval "lt_$var="'"X$echo "X$$var" | $Xsed -e "$double_quote_subst" -e "$sed_quote_subst" -e \""$delay_variablesubst\"\"""
  ;;
  *)
    eval "lt_$var="'"X$echo "X$$var" | $Xsed -e "$sed_quote_subst"\"\""
  ;;
    esac
done

ifelse([$1], [],
  [cfgfile="$ofile"T]
  trap "$rm "$cfgfilev"; exit 1" 1 2 15
  $rm -f "$cfgfile"

ifelse([$1], [],
  [cfgfile="$ofile"T]
  trap "$rm "$cfgfilev"; exit 1" 1 2 15
  $rm -f "$cfgfile"
AC_MSG_NOTICE([creating $ofile]),
[cfgfile="$ofile"]

cat <<__EOF__ >> "$cfgfile"
ifelse([$1], [],
[#! $SHELL
# 'echo "$cfgfile" | sed 's%^.*//%%' - Provide generalized library-building support services.
# Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
# NOTE: Changes made to this file will be lost: look at ltmain.sh.
#
# Free Software Foundation, Inc.
#
# This file is part of GNU Libtool:
# Originally by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
# This program is free software; you can redistribute it and/or modify
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#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# A sed program that does not truncate output.
SED=$lt_SED

# Sed that helps us avoid accidentally triggering echo(1) options like -n.
Xsed="$SED -e 1s/^X/"/

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

# The names of the tagged configurations supported by this script.
available_tags=
# Libtool was configured on host `(hostname || uname -n) 2>&1 | sed 1q`:

# Shell to use when invoking shell scripts.
SHELL=$lt_SHELL

# Whether or not to build shared libraries.
build_libtool_libs=$enable_shared

# Whether or not to build static libraries.
build_old_libs=$enable_static

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=$_LT_AC_TAGVAR(archive_cmds_need_lc, $1)

# Whether or not to disallow shared libs when runtime libs are static
allow_libtool_libs_with_static_runtimes=$_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)

# Whether or not to optimize for fast installation.
fast_install=$enable_fast_install

# The host system.
host_alias=$host_alias
host=$host
host_os=$host_os

# The build system.
build_alias=$build_alias
build=$build
build_os=$build_os

# An echo program that does not interpret backslashes.
echo=$lt_echo

# The archiver.
AR=$lt_AR
AR_FLAGS=$lt_AR_FLAGS

# A C compiler.
LTCC=$lt_LTCC

# LTCC compiler flags.
LTCFLAGS=$lt_LTCFLAGS

# A language-specific compiler.
CC=$lt[][]LT_AC_TAGVAR(compiler, $1)

# Is the compiler the GNU C compiler?
with_gcc=$LT_AC_TAGVAR(GCC, $1)

# An ERE matcher.
EGREP=$lt_EGREP

# The linker used to build libraries.
LD=$LT_AC_TAGVAR(LD, $1)

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

# Used on cygwin: DLL creation program.
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.
objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=$lt[][]LT_AC_TAGVAR(lt_prog_compiler_wl, $1)

# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"
# Shared library suffix (normally ".so").
shrext_cmds='$shrext_cmds'

# Executable file suffix (normally ".")
exeext='$exeext'

# Additional compiler flags for building library objects.
pic_flag=$lt_username$LAC_TAGVAR(lt_prog_compiler_pic, $1)
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_username$LAC_MAX_CMD_LEN

# Does compiler simultaneously support -c and -o options?
 compiler_c_o=$lt_username$LAC_TAGVAR(lt_cv_username$LAC_COMPILER_C_O, $1)

# Must we lock files when doing compilation?
need_locks=$lt_username$need_locks

# Do we need the lib prefix for modules?
 need_lib_prefix=$lt_username$need_lib_prefix

# Do we need a version for libraries?
 need_version=$lt_username$need_version

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt_username$LAC_TAGVAR(lt_prog_compiler_static, $1)

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt_username$LAC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)

# Compiler flag to allow reflexive dlopsens.
export_dynamic_flag_spec=$lt_username$LAC_TAGVAR(export_dynamic_flag_spec, $1)

# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt_username$LAC_TAGVAR(whole_archive_flag_spec, $1)

# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt_username$LAC_TAGVAR(thread_safe_flag_spec, $1)
# Library versioning type.
version_type=$version_type
# Format of library name prefix.
libname_spec=$lt_libname_spec
# List of archive names. First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec=$lt_library_names_spec
# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec
# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_cmds, $1)
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds
# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_from_new_cmds, $1)
# Create a temporary old-style archive to link instead of a shared archive.
old_archive_from_expsyms_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)
# Commands used to build and install a shared archive.
archive_cmds=$lt_[]_LT_AC_TAGVAR(archive_cmds, $1)
archive_expsym_cmds=$lt_[]_LT_AC_TAGVAR(archive_expsym_cmds, $1)
postinstall_cmds=$lt_postinstall_cmds
postuninstall_cmds=$lt_postuninstall_cmds
# Commands used to build a loadable module (assumed same as above if empty)
module_cmds=$lt_[]_LT_AC_TAGVAR(module_cmds, $1)
module_expsym_cmds=$lt_[]_LT_AC_TAGVAR(module_expsym_cmds, $1)
# Commands to strip libraries.
old_striplib=$lt_old_striplib
striplib=$lt_striplib
# Dependencies to place before the objects being linked to create a
# shared library.
predep_objects=$lt_[]_LT_AC_TAGVAR(predep_objects, $1)
# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=$lt_[]_LT_AC_TAGVAR(postdep_objects, $1)

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# Dependencies to place before the objects being linked to create a shared library.
predeps=$lt_[]_LT_AC_TAGVAR(predeps, $1)

# Dependencies to place after the objects being linked to create a shared library.
postdeps=$lt_[]_LT_AC_TAGVAR(postdeps, $1)

# The directories searched by this compiler when creating a shared library
compiler_lib_search_dirs=$lt_[]_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)

# The library search path used internally by the compiler when linking a shared library.
compiler_lib_search_path=$lt_[]_LT_AC_TAGVAR(compiler_lib_search_path, $1)

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=$lt_deplibs_check_method

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=$lt_file_magic_cmd

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=$lt_[]_LT_AC_TAGVAR(allow_undefined_flag, $1)

# Flag that forces no undefined symbols.
no_undefined_flag=$lt_[]_LT_AC_TAGVAR(no_undefined_flag, $1)

# Commands used to finish a libtool library installation in a directory.
finish_cmds=$lt_finish_cmds

# Same as above, but a single script fragment to be evald but not shown.
finish_eval=$lt_finish_eval

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=$lt_lt_cv_sys_global_symbol_pipe

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=$lt_lt_cv_sys_global_symbol_to_cdecl

# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=$lt_lt_cv_sys_global_symbol_to_c_name_address

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var
# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

# How to hardcode a shared library path into an executable.
hardcode_action=$_LT_AC_TAGVAR(hardcode_action, $1)

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode \$libdir into a binary during linking.
# This must work even if \$libdir does not exist.
hardcode_libdir_flag_spec=$lt_[[]_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)

# If ld is used when linking, flag to hardcode \$libdir into
# a binary during linking. This must work even if \$libdir does
# not exist.
hardcode_libdir_flag_spec_ld=$lt_[[]_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$lt_[[]_LT_AC_TAGVAR(hardcode_libdir_separator, $1)

# Set to yes if using DIR/libNAME[$shared_ext] during linking hardcodes DIR into the
# resulting binary.
hardcode_direct=$_LT_AC_TAGVAR(hardcode_direct, $1)

# Set to yes if using the -LDIR flag during linking hardcodes DIR into the
# resulting binary.
hardcode_minus_L=$_LT_AC_TAGVAR(hardcode_minus_L, $1)

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)

# Set to yes if building a shared library automatically hardcodes DIR into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$_LT_AC_TAGVAR(hardcode_automatic, $1)

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

# Whether libtool must link a program against all its dependency libraries.
link_all_deplibs=$_LT_AC_TAGVAR(link_all_deplibs, $1)

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=\$lt_sys_lib_dlsearch_path_spec

# Fix the shell variable \$srcfile for the compiler.
fix_srcfile_path=\$lt_fix_srcfile_path

# Set to yes if exported symbols are required.
always_export_symbols=\$_LT_AC_TAGVAR(always_export_symbols, \$1)

# The commands to list exported symbols.
export_symbols_cmds=\$_LT AC_TAGVAR(export_symbols_cmds, \$1)

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=\$_lt_extract_expsyms_cmds

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=\$_LT AC_TAGVAR(exclude_expsyms, \$1)

# Symbols that must always be exported.
include_expsyms=\$_LT AC_TAGVAR(include_expsyms, \$1)

ifelse(\$1, [],
  [# ### END LIBTOOL CONFIG],
  [# ### END LIBTOOL TAG CONFIG: $tagname])

   __EOF__

ifelse(\$1, [], {
  case $host_os in
  aix3*)
    cat <<<EOF >> "$cfgfile"
      AIX sometimes has problems with the GCC collect2 program. For some
  reason, if we set the COLLECT_NAMES environment variable, the problems
  vanish in a puff of smoke.
if test "X$COLLECT_NAMES+set" != Xset; then
  COLLECT_NAMES=
  export COLLECT_NAMES
  fi
EOF
  ;;
esac
  # We use sed instead of cat because bash on DJGPP gets confused if
  # if finds mixed CR/LF and LF-only lines. Since sed operates in
  # text mode, it properly converts lines to CR/LF. This bash problem
  # is reportedly fixed, but why not run on old versions too?
  sed 's/\$ltmain/"$cfgfile"/ || (rm -f "$cfgfile"; exit 1)
mv -f "$cfgfile" "$ofile" || \
(rm -f "$ofile" && cp "$cfgfile" "$ofile" && rm -f "$cfgfile")
chmod +x "$ofile"
])
else
# If there is no Makefile yet, we rely on a make rule to execute
# 'config.status --recheck' to rerun these tests and create the
# libtool script then.
ltmain_in='echo $ltmain | sed -e 's/\.sh$/.in/''
if test -f "$ltmain_in"; then
test -f Makefile && make "$ltmain"
fi
fi
])# AC_LIBTOOL_CONFIG

# AC_LIBTOOL_PROG_COMPILER_NO_RTTI([TAGNAME])
# ------------------------------------------AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_NO_RTTI],
[AC_REQUIRE([_LT_AC_SYS_COMPILER])dnl
_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=
if test "$GCC" = yes; then
_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=' -fno-builtin'
AC_LIBTOOL_COMPILER_OPTION([if $compiler supports -fno-rtti -fno-exceptions],
lt_cv_prog_compiler_rtti_exceptions,
[-fno-rtti -fno-exceptions], [],
[_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag,
$1)="$_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1) -fno-rtti -fno-exceptions"])
fi
])# AC_LIBTOOL_PROG_COMPILER_NO_RTTI

# AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
# --------------------------------AC_DEFUN([AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE],
[AC_REQUIRE([AC_CANONICAL_HOST])
AC_REQUIRE([LT_AC_PROG_SED])
AC_REQUIRE([AC_PROG_NM])
AC_REQUIRE([AC_OBJEXT])
# Check for command to grab the raw symbol name followed by C symbol from nm.
AC_MSG_CHECKING([command to parse $NM output from $compiler object])
AC_CACHE_VAL([lt_cv_sys_global_symbol_pipe],
[
# These are sane defaults that work on at least a few old systems.

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# [They come from Ultrix. What could be older than Ultrix??! ;)]

# Character class describing NM global symbol codes.
symcode='[BCDEGRST]'

# Regexp to match symbols that can be accessed directly from C.
sympat='(^\[[A-Za-z](([A-Za-z0-9]*[^\]])*)(.[^amaño\)])*$'

# Transform an extracted symbol line into a proper C declaration
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^. .* (\(.*\))/extern int \1;/p'"

# Transform an extracted symbol line into symbol name and symbol address
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: (\[[^ \]*]) (\[[^ \]*])$/  {\"\1\", (lt_ptr) 0},/p' -e 's/^\[[BCDEGRST]\]$/  {"\1"}/p' -e 's/^\[[A-Za-z]([A-Za-z0-9]*[^\)])*/  {\"\2", (lt_ptr) \&\2},/p'"

# Define system-specific variables.
case $host_os in
  aix*)
    symcode='[BCDT]'
    ;;
  cygwin* | mingw* | pw32*)
    symcode='[ABCDGISTW]'
    ;;
  hpux*) # Its linker distinguishes data from code symbols
    if test "$host_cpu" = ia64; then
      symcode='[ABCDEFGIRSTW]'
    fi
    lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^. .* (\(.*\))/extern int \1();/p' -e 's/^\[[BCDEGRST]\]$/  {"\1"}/p'"
    lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: (\[[^ \]*]) (\[[^ \]*])$/  {\"\1\", (lt_ptr) 0},/p' -e 's/^\[[BCDEGRST]\]$/  {"\2", (lt_ptr) \&\2},/p'"
    ;;
  linux* | k*bsd*-gnu)
    if test "$host_cpu" = ia64; then
      symcode='[ABCDGIRSTW]'
      lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^. .* (\(.*\))/extern int \1();/p' -e 's/^\[[ABCDGIRSTW]\]$/  {"\1"}/p'"
      lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: (\[[^ \]*]) (\[[^ \]*])$/  {\"\1\", (lt_ptr) 0},/p' -e 's/^\[[ABCDGIRSTW]\]$/  {"\2", (lt_ptr) \&\2},/p'"
    fi
    ;;
  irix* | nonstopux*)
    symcode='[BCDEGRST]'
    ;;
  osf*)
    symcode='[BCDEGQRST]'
    ;;
  solaris*)
symcode='[[BDRT]]'

::
sco3.2v5*)
symcode='[[DT]]'
::
sysv4.2uw2*)
symcode='[[DT]]'
::
sysv5* | sco5v6* | unixware* | OpenUNIX*)
symcode='[[ABDT]]'
::
sysv4)
symcode='[[DFNSTU]]'
::
esac

# Handle CRLF in mingw tool chain
opt_cr=
case $build_os in
  mingw*)
    opt_cr='echo \'{0,1}\}' | tr x '015' # option cr in regexp
  ;;
esac

# If we're using GNU nm, then use its standard symbol codes.
case '$NM -V 2>&1' in
  *GNU* | *'with BFD\*')
symcode='[[ABCDGIRSTW]]' ;;
esac

# Try without a prefix underscore, then with it.
for ac_symprfx in "" "_"; do

  # Transform symcode, sympat, and symprfx into a raw symbol and a C symbol.
symxfrm="\1 $ac_symprfx\2 \2"

  # Write the raw and C identifiers.
lt_cv_sys_global_symbol_pipe="sed -n -e "s/^[ ][ ]*[ ]*[ ][ ]*\1\2\3\4\5\6\7\8\9\10/\$symxfrm/p"

  # Check to see that the pipe works correctly.
pipe_works=no

  rm -f conftest*
cat > conftest.$ac_ext <<EOF
#ifdef __cplusplus
extern "C" {
#endif
EOF

  #ifdef __cplusplus
}
#ifndef __cplusplus

rm -f conftest*
cat > conftest.$ac_ext <<EOF
  #ifdef __cplusplus
EOF
#endif

extern "C" {

#endif

}
char nm_test_var;
void nm_test_func(){
#endif
}
#endif
int main(){nm_test_var='a';nm_test_func();return(0);
}
EOF
if AC_TRY_EVAL(ac_compile); then
    # Now try to grab the symbols.
    nlist=conftest.nlm
    if AC_TRY_EVAL(NM conftest.$ac_objext \|$lt_cv_sys_global_symbol_pipe \>$nlist) \&\& test -s "$nlist"; then
        # Try sorting and uniquifying the output.
        if sort "$nlist" \| uniq > "$nlist"T; then
            mv -f "$nlist"T "$nlist"
        else
            rm -f "$nlist"T
        fi
        # Make sure that we snagged all the symbols we need.
        if grep ' nm_test_var$' "$nlist" \> dev/null; then
            if grep ' nm_test_func$' "$nlist" \> dev/null; then
                cat <<EOF > conftest.$ac_ext
                #ifdef __cplusplus
                extern "C" {
                #endif
                EOF
                # Now generate the symbol file.
                eval "$lt_cv_sys_global_symbol_to_cdecl"' < "$nlist" \> "$nlist" | grep -v main \> conftest.$ac_ext'
                cat <<EOF > conftest.$ac_ext
                #if defined (__STDC__) \&\& __STDC__
                # define lt_ptr_t void *
                #else
                # define lt_ptr_t char *
                # define const
                #endif
                /* The mapping between symbol names and symbols. */
                const struct {
                    const char *name;
                    lt_ptr_t address;
                } lt_preloaded_symbols[][] =
                { }
                EOF
                $SED "s/\$symcode$symcode\(.*\)\(.*\)\$f/\"\$2\", (lt_ptr_t) \&\2, f" < "$nlist" | grep -v main >>
conftest.$ac_ext
  cat <<EOF >> conftest.$ac_ext
  {0, (lt_ptr_t) 0}
  
  #ifdef __cplusplus
  }
  #endif
  EOF

  # Now try linking the two files.
  mv conftest.$ac_objext conftstm.$ac_objext
  lt_save_LIBS="$LIBS"
  lt_save_CFLAGS="$CFLAGS"
  LIBS="conftstm.$ac_objext"
  CFLAGS="$CFLAGS$ _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)"
  if AC_TRY_EVAL(ac_link) && test -s conftest${ac_exeext}; then
    pipe_works=yes
    fi
    LIBS="$lt_save_LIBS"
    CFLAGS="$lt_save_CFLAGS"
  else
    echo "cannot find nm_test_func in $nlist" >&AS_MESSAGE_LOG_FD
    fi
  else
    echo "cannot find nm_test_var in $nlist" >&AS_MESSAGE_LOG_FD
    fi
  else
    echo "cannot run $lt_cv_sys_global_symbol_pipe" >&AS_MESSAGE_LOG_FD
    fi
  else
    echo "$progname: failed program was:" >&AS_MESSAGE_LOG_FD
    cat conftest.$ac_ext >&5
    fi
  rm -rf conftest* conftst*

  # Do not use the global_symbol_pipe unless it works.
  if test "$pipe_works" = yes; then
    break
  else
    lt_cv_sys_global_symbol_pipe=
    fi
done
)

if test -z "$lt_cv_sys_global_symbol_pipe"; then
  lt_cv_sys_global_symbol_to_cdecl=
  fi

if test -z "$lt_cv_sys_global_symbol_pipe$lt_cv_sys_global_symbol_to_cdecl"; then
  AC_MSG_RESULT(failed)
else
    AC_MSG_RESULT(ok)
fi
)
# AC_LIBTOOL_PROG_COMPILER_PIC([TAGNAME])
# ---------------------------------------
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_PIC],
[_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=
 _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
 _LT_AC_TAGVAR(lt_prog_compiler_static, $1)=

AC_MSG_CHECKING([for $compiler option to produce PIC])
ifelse($1,$([CXX]),]
    # C++ specific cases for pic, static, wl, etc.
    if test "$SGXX" = yes; then
        _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
    fi
    case $host_os in
    aix*)
        # All AIX code is PIC.
        if test "$host_cpu" = ia64; then
            # AIX 5 now supports IA64 processor
            _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
        fi
    amigaos*)
        # FIXME: we need at least 68020 code to build shared libraries, but
        # adding the '-m68020' flag to GCC prevents building anything better,
        # like '-m68040'.
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
    beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
        # PIC is the default for these OSES.
        ;;
    mingu* | cygwin* | os2* | pw32*)
        # This hack is so that the source file can tell whether it is being
        # built for inclusion in a dll (and should export symbols for example).
        # Although the cygwin gcc ignores -fPIC, still need this for old-style
        # (--disable-auto-import) libraries
        m4_if($1, [GCJ], [],
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT')
    ;;
    darwin* | rhapsody*)
        # PIC is the default on this platform
        # Common symbols not allowed in MH_DYLIB files

_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="-fno-common"
::
*djgpp*)
# DJGPP does not support shared libraries at all
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
::
interix[[3-9]]*)
# Interix 3.x gcc -fpic/-fPIC options generate broken code.
# Instead, we relocate shared libraries at runtime.
::
.sysv4*MP*)
if test -d /usr/nec; then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
fi
::
.hpux*)
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in
  hppa*64*|ia64*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
  esac
::*
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="-fPIC"
::
esac
::
.*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="-fPIC"
::
esac
else
case $host_os in
  aix[[4-9]]*)
  # All AIX code is PIC.
  if test "$host_cpu" = ia64; then
    # AIX 5 now supports IA64 processor
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  else
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-bnso -bf:/lib/syscalls.exp'
  fi
  ::
  chorus*)
  case $cc_basename in
    exch68*)
    # Green Hills C++ Compiler
    # _LT_AC_TAGVAR(lt_prog_compiler_static, $1)="--no_auto_instantiation -u __main -u __premain -u _abort -r
    SCOOL_DIR/lib/libOrb.a $MVME_DIR/lib/CC/libC.a $MVME_DIR/lib/classix/libcx.s.a"
    ::
esac
:

darwin*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
case $cc_basename in
  xlc*)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  esac
::
dgux*)
case $cc_basename in
  ec++*)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  esac
ghcx*)
  # Green Hills C++ Compiler
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
    *
  esac
::
  freebsd* | dragonfly*)
# FreeBSD uses GNU C++
;
  hpux9* | hpux10* | hpux11*)
case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
    if test "$host_cpu" != ia64; then
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
    fi
  esac
::
aCC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
    case $host_cpu in
      hppa*64*|ia64*)
        # +Z the default
        *
      esac
    esac
::

# This is c89, which is MS Visual C++ (no shared libs)
# Anyone wants to do a port?

```plaintext
; interix*)
```

```plaintext
# CC pic flag -KPIC is the default.
; *
```

```plaintext
; esac
```

```plaintext
; linux* | k*bsd*-gnu)
```

```plaintext
# KAI C++ Compiler
; icpc* | ecpc*)
```

```plaintext
# Intel C++
; pgCC* | pgcpp*)
```

```plaintext
# Portland Group C++ compiler.
; cxx*)
```

```plaintext
# Compaq C++
; *)
```

```plaintext
case `$CC -V 2>&1 | sed 5q` in
```

```plaintext
<table>
<thead>
<tr>
<th>Operating System</th>
<th>Compiler</th>
<th>PIC Flags</th>
<th>Static Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linux</td>
<td>KCC</td>
<td>`-Wl,'</td>
<td>`-fPIC'</td>
</tr>
<tr>
<td></td>
<td>icpc</td>
<td>`-Wl,'</td>
<td>`-fPIC'</td>
</tr>
<tr>
<td></td>
<td>pgCC</td>
<td>`-Wl,'</td>
<td>`-Bstatic'</td>
</tr>
<tr>
<td></td>
<td>cxx</td>
<td>`-Wl,'</td>
<td>`-non_shared'</td>
</tr>
<tr>
<td></td>
<td></td>
<td>`-non_shared'</td>
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</tr>
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<td></td>
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<td>`-static'</td>
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<td></td>
<td></td>
<td>`-Bstatic'</td>
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<tr>
<td></td>
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<td>`-non_shared'</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>`-non_shared'</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>`-static'</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>`-Bstatic'</td>
<td></td>
</tr>
</tbody>
</table>
```

`Open Source Used in Finesse 12.0(1) 3544`
*Sun\ C*)

# Sun C++ 5.9

_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KIC'

_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'

_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld'

esac

esac

lynxos*)

m88k*)

mvs*)

case $cc_basename in

cxx*)

_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-W c,exportall'

esac

esac

netbsd*)

osf3* | osf4* | osf5*)

case $cc_basename in

KCC*)

_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'

RCC*)

# Rational C++ 2.4.1

_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'

esac

# Digital/Compaq C++

_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'

# Make sure the PIC flag is empty. It appears that all Alpha
# Linux and Compaq Tru64 Unix objects are PIC.

_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=

_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'

esac

esac

psos*)

::

::
case $cc_basename in
  CC*)
    # Sun C++ 4.2, 5.x and Centerline C++
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
    ;;
gcx*)
    # Green Hills C++ Compiler
    _LT_AC_TAGVAR(lt_prog Compiler_pic, $1)='-PIC'
    ;;
    *)
    ;;
esac
  ;;
sunos4*)
case $cc_basename in
  CC*)
    # Sun C++ 4.x
    _LT_AC_TAGVAR(lt_prog Compiler_pic, $1)='-pic'
    _LT_AC_TAGVAR(lt_prog Compiler_wl, $1)='-Bstatic'
    ;;
lce*)
    # Lucid
    _LT_AC_TAGVAR(lt_prog Compiler_pic, $1)='-pic'
    ;;
    *)
    ;;
esac
  ;;
tandem*)
case $cc_basename in
  NCC*)
    # NonStop-UX NCC 3.20
    _LT_AC_TAGVAR(lt_prog Compiler_pic, $1)='-KPIC'
    ;;
    *)
    ;;
esac
  ;;
sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(lt_prog Compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog Compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog Compiler_wl, $1)='-Bstatic'
    ;;
esac
::
  vxworks*)
::
 *)
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
::
esac
fi
[
if test "SGCC" = yes; then
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
case $host_os in
  aix*)
    # All AIX code is PIC.
    if test "$host_cpu" = ia64; then
      # AIX 5 now supports IA64 processor
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    fi
::
amigaos*)
  # FIXME: we need at least 68020 code to build shared libraries, but
  # adding the '-m68020' flag to GCC prevents building anything better,
  # like '-m68040'.
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
::
beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
  # PIC is the default for these OSes.
::
mingw* | cygwin* | pw32* | os2*)
  # This hack is so that the source file can tell whether it is being
  # built for inclusion in a dll (and should export symbols for example).
  # Although the cygwin gcc ignores -fPIC, still need this for old-style
  # (--disable-auto-import) libraries
  m4_if([S1], [GCJ], [],
  [_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])
::
darwin* | rhapsody*)
  # PIC is the default on this platform
  # Common symbols not allowed in MH_DYLIB files
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'

Open Source Used In Finesse 12.0(1)
interix\([3-9]\)*
# Interix 3.x gcc -fpic/-fPIC options generate broken code.
# Instead, we relocate shared libraries at runtime.

msdosdgpp*
# Just because we use GCC doesn't mean we suddenly get shared libraries
# on systems that don't support them.
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
enable_shared=no

sysv4*MP*)
if test -d /usr/nec; then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
fi

hpux*)
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in
hppa*64*|ia64*)
# +Z the default
  *)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
::
esac
::
(*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
::
esac
else
# PORTME Check for flag to pass linker flags through the system compiler.
case $host_os in
  aix*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Wl,-Bstatic'
else
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Wl,-Bstatic -bI:/lib/syscalls.exp'
fi

Open Source Used In Finesse 12.0(1)

# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
case $cc_basename in
  xlc*)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
    _LT_AC_TAGVAR(lt_prog Compiler_wl, $1)='-Wl,'
  ;;
  esac
  ;;

  mingw* | cygwin* | pw32* | os2*)
  # This hack is so that the source file can tell whether it is being
  # built for inclusion in a dll (and should export symbols for example).
  m4_if([$1], [GCJ], [],
  [_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT']
  ;;
  hpux9* | hpux10* | hpux11*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
  # not for PA HP-UX.
  case $host_cpu in
    hppa*64|ia64*)
      # +Z the default
      ;;
    *)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
      ;;
    esac
    # Is there a better lt_prog_compiler_static that works with the bundled CC?
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
    ;;
  irix5* | irix6* | nonstopux*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # PIC (with -KPIC) is the default.
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
  ;;
  newsos6)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  ;;
  linux* | k*bsd*-gnu)
  case $cc_basename in

icc* | ecc*)

_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=-static'

pgcc* | pgf77* | pgf90* | pgf95*)

  # Portland Group compilers (*not* the Pentium gcc compiler,
  # which looks to be a dead project)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=fpic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=-Bstatic'

ccc*)

_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=-Wl,'
  # All Alpha code is PIC.
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=non_shared'

Sun\ C*)

  # Sun C 5.9
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=-Bstatic'
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=-Wl,'

Sun\ F*)

  # Sun Fortran 8.3 passes all unrecognized flags to the linker
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=-Bstatic'
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=""

esac

esac

osf3* | osf4* | osf5*)

_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=-Wl,'
  # All OSF/1 code is PIC.
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=non_shared'

rdos*)

_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=non_shared'

solaris*)

_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-KPIC"
LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
case $cc_basename in
  f77* | f90* | f95*)
  LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld ';;
  LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,';;
esac

sunos4*)
  LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
  LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
  LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  ;;

sysv4 | sysv4.2uw2 | sysv4.3*)
  LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  ;;

sysv4*MP*)
  if test -d /usr/nec ;then
    LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-Kconform_pic'
    LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  fi
  ;;

sysv5 | unixware | sco3.2v5 | sco5v6 | OpenUNIX*)
  LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  ;;

unicos*)
  LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
  ;;

uts4*)
  LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
  LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  ;;

*)
  LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
  ;;
esac
AC_MSG_RESULT([$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)])

#
# Check to make sure the PIC flag actually works.
#
if test -n "$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)"; then
AC_LIBTOOL_COMPILER_OPTION([if $compiler PIC flag $LT_AC_TAGVAR(lt_prog_compiler_pic, $1) works],

[$LT_AC_TAGVAR(lt_cv_prog_compiler_pic_works, $1)],

[$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[[-DPIC],[ifelse([$1],[CXX],[[-DPIC],[]])]]), [],

[case $LT_AC_TAGVAR(lt_prog_compiler_pic, $1) in
"" | ""*) ;;
*) $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)" ;;
esac],

$LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no)
fi

case $host_os in
# For platforms which do not support PIC, -DPIC is meaningless:
*djgpp*)
$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
;;
*)
$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[[-DPIC],[ifelse([$1],[CXX],[[-DPIC],[]])]])"
;;
esac

#
# Check to make sure the static flag actually works.
#
wl=$LT_AC_TAGVAR(lt_prog_compiler_wl, $1) eval
lt_tmp_static_flag="$LT_AC_TAGVAR(lt_prog_compiler_static, $1)"
AC_LIBTOOL_LINKER_OPTION([if $compiler static flag $lt_tmp_static_flag works],

[$LT_AC_TAGVAR(lt_cv_prog_compiler_static_works, $1)],

[$lt_tmp_static_flag,

[case $LT_AC_TAGVAR(lt_prog_compiler_static, $1)=no])
]

# AC_LIBTOOL_PROG_LD_SHLIBS([TAGNAME])
# --------------------------------------
# See if the linker supports building shared libraries.
AC_DEFUN([AC_LIBTOOL_PROG_LD_SHLIBS],
[AC_REQUIRE([LT_AC_PROG_SED])]

Open Source Used In Fineese 12.0(1)
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
ifelse([[$1]],[[CXX]],[
  _LT_AC_TAGVAR(export_symbols_cmds, $1)="$ NM -Bpg $libobjs $convenience | awk '{ if (($(S)[2] == "T") || ($(S)[2] == "D") || ($(S)[2] == "B") & & (substr((S)[3],1,1) != ".") ) { print $(S) } }" | sort -u > $export_symbols'
  case $host_os in
    aix列([4-9]*))
      # If we're using GNU nm, then we don't want the "-C" option.
      # -C means demangle to AIX nm, but means don't demangle with GNU nm
      if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
        _LT_AC_TAGVAR(export_symbols_cmds, $1)="$ NM -Bpg $libobjs $convenience | awk '{ if (($(S)[2] == "T") || ($(S)[2] == "D") || ($(S)[2] == "B") & & (substr((S)[3],1,1) != ".") ) { print $(S) } }" | sort -u > $export_symbols'
      else
        _LT_AC_TAGVAR(export_symbols_cmds, $1)="$ NM -BCpg $libobjs $convenience | awk '{ if (($(S)[2] == "T") || ($(S)[2] == "D") || ($(S)[2] == "B") & & (substr((S)[3],1,1) != ".") ) { print $(S) } }" | sort -u > $export_symbols'
      fi
    ;;
    pw32*)
      _LT_AC_TAGVAR(export_symbols_cmds, $1)="$ ltdll_cmds"
    ;;
    cygwin* | mingw*)
      _LT_AC_TAGVAR(export_symbols_cmds, $1)="$ NM $libobjs $convenience | $ global_symbol_pipe | $SED -e "s/.*//" | sort | uniq > $export_symbols'
    ;;
    *)
      _LT_AC_TAGVAR(export_symbols_cmds, $1)="$ NM $libobjs $convenience | $ global_symbol_pipe | $SED "/\s/.*//\" | sort | uniq > $export_symbols'
    ;;
    esac
  _LT_AC_TAGVAR(exclude_expsyms, $1)=['\_GLOBAL\_OFFSET\_TABLE', ['\_GLOBAL\_FID\_\*']]
  ];
runpath_var=
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=true
  _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=false
  _LT_AC_TAGVAR(archive_cmds, $1)=true
  _LT_AC_TAGVAR(archive_expsyms_cmds, $1)=true
  _LT_AC_TAGVAR(old_archive_From_new_cmds, $1)=true
  _LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)=true
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=true
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=true
  _LT_AC_TAGVAR(thread_safe_flag_spec, $1)=true
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=true
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=true
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=true
  _LT_AC_TAGVAR(hardcode_direct, $1)=false
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=false
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM $libobjs $convenience | $global_symbol_pipe | $SED '\"s/.*\//\" | sort | uniq > Sexport_symbols"
# include_expsyms should be a list of space-separated symbols to be *always*
# included in the symbol list
_LT_AC_TAGVAR(include_expsyms, $1)=
# exclude_expsyms can be an extended regexp of symbols to exclude
# it will be wrapped by ' ( ' and ')' $', so one must not match beginning or
# end of line. Example: 'a|bc|.*d.*' will exclude the symbols 'a' and 'bc',
# as well as any symbol that contains 'd'.
_LT_AC_TAGVAR(exclude_expsyms, $1)="$GLOBAL_OFFSET_TABLE_|_GLOBAL__F[ID]_.*"
# Although _GLOBAL_OFFSET_TABLE_ is a valid symbol C name, most a.out
# platforms (ab)use it in PIC code, but their linkers get confused if
# the symbol is explicitly referenced. Since portable code cannot
# rely on this symbol name, it's probably fine to never include it in
# preloaded symbol tables.
# Exclude shared library initialization/finalization symbols.
dnl Note also adjust exclude_expsyms for C++ above.
extract_expsyms_cmds=
# Just being paranoid about ensuring that cc_basename is set.
_LT_CC_BASENAME([$compiler])
case $host_os in
 cygwin* | mingw* | pw32*)
 # FIXME: the MSVC++ port hasn't been tested in a loooong time
 # When not using gcc, we currently assume that we are using
 # Microsoft Visual C++.
 if test "$GCC" != yes; then
  with_gnu_ld=no
 fi
 ;;
 interix*)
 # we just hope/assume this is gcc and not c89 (= MSVC++)
 with_gnu_ld=yes
 ;;
 openbsd*)
 with_gnu_ld=no
 ;;
 esac

_LT_AC_TAGVAR(ld_shlibs, $1)=yes
if test "$with_gnu_ld" = yes; then
 # If archive_cmds runs LD, not CC, wlarc should be empty
 wlarc='$'{wl}'
# Set some defaults for GNU ld with shared library support. These
# are reset later if shared libraries are not supported. Putting them
# here allows them to be overridden if necessary.
runpath_var=LD_RUN_PATH
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

# ancient GNU ld didn't support --whole-archive et. al.
if $LD --help 2>&1 | grep 'no-whole-archive' > /dev/null; then
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-archive$convenience ""$wlarc"--no-whole-
archive'
else
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
fi
supports_anon_versioning=no
case '$LD -v 2>/dev/null' in
/* \[[01].* | *\.[0-9].* | *\ 2.10..*) :: # catch versions < 2.11
/* \ 2.11.93.0.2\ *) supports_anon_versioning=yes :: # RH7.3 ...
/* \ 2.11.92.0.12\ *) supports_anon_versioning=yes :: # Mandrake 8.2 ...
/* \ 2.11.*) :: # other 2.11 versions
*) supports_anon_versioning=yes ::
esac

# See if GNU ld supports shared libraries.
case $host_os in
aix[3-9]*)
  # On AIX/PPC, the GNU linker is very broken
  if test "$host_cpu" != ia64; then
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
esac

** Warning: the GNU linker, at least up to release 2.9.1, is reported
** to be unable to reliably create shared libraries on AIX.
** Therefore, libtool is disabling shared libraries support. If you
** really care for shared libraries, you may want to modify your PATH
** so that a non-GNU linker is found, and then restart.

EOF
fi

amigaos*)
_LT_AC_TAGVAR(archive_cmds, $1)="rm $output_objdir/a2ixlibrary.data~$echo "#define NAME $libname"
> $output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION $major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB $lib~(cd $output_objdir && a2ixlibrary -32)'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-L$libdir'
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
Samuel A. Falvo II <kc5tja@dolphin.openprojects.net> reports that the semantics of dynamic libraries on AmigaOS, at least up to version 4, is to share data among multiple programs linked with the same dynamic library. Since this doesn't match the behavior of shared libraries on other platforms, we can't use them.

```bash
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;
```

Beos*)

```bash
if $SLD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
# Joseph Beckenbach <jrb3@best.com> says some releases of gcc
# support --undefined. This deserves some investigation. FIXME
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -nostart $libobjs $deplibs $compiler_flags $[wl]-soname
$wl$soname -o $lib"
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;
```

cygwin* | mingw* | pw32*)

```bash
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
# as there is no search path for DLLs.
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=\-L$libdir
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
_LT_AC_TAGVAR(export_symbols_cmds, $1)="/\n\n''/^[BCDGRS][I][ ]\^[ ]/s/.*\[^ ]\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\([^ ]\)*\[^\n\]" $output_objdir$/soname $[wl]-enable-auto-image-base -Xlinker --out-implib -Xlinker $lib"
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
```

interix[[3-9]]*)

_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

# Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
# Instead, shared libraries are loaded at an image base (0x10000000 by
# default) and reloaded if they conflict, which is a slow very memory
# consuming and fragmenting process. To avoid this, we pick a random,
# 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
# time. Moving up from 0x10000000 also allows more sbrk(2) space.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-h,$soname ${wl}--image-base,'expr ${RANDOM-$$} % 4096 / 2 * 262144 + 1342177280' -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed "s,^,_," $export_symbols >$output_objdir/$soname.expSYM--CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-h,$soname $[wl]--retain-symbols-file,$output_objdir/$soname.expSYM ${wl}--image-base,'expr $[RANDOM-$$$] % 4096 / 2 \* 262144 + 1342177280' -o $lib'

;;

gnu* | linux* | k*bsd*-gnu)

if SLD --help 2>&1 | grep ' supported targets:.* elf' > /dev/null; then
tmp_addflag=
case $cc_basename,$host_cpu in
pgcc*)	# Portland Group C compiler

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-

whole-archive'
tmp_addflag=' $pic_flag'

;;

gnu* | linux* | k*bsd*-gnu)

pgf77* | pgf90* | pgf95*)	# Portland Group f77 and f90 compilers

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-

whole-archive'
tmp_addflag=' $pic_flag -Mnomain' ';;
ecc*,ia64* | icc*,ia64*)#

Intel C compiler on ia64

_tm_addflag=' -i_dynamic' ';;
efc*,ia64* | ifort*,ia64*)#

Intel Fortran compiler on ia64

_tm_addflag=' -i_dynamic -nofor_main' ';;

ifc* | ifort*)

Intel Fortran compiler

_tm_addflag=' -nofor_main' ';;

esac
case 'SCC -V 2>&1 | sed 5q' in
*Sun*C*)# Sun C 5.9

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'new_convenience=; for conv in $convenience""; do test -z "$conv" || new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-whole-archive'
tmp_sharedflag='-G';
*Sun\ F*) # Sun Fortran 8.3
tmp_sharedflag='-G';
*)
tmp_sharedflag='-shared';
esac

_LT_AC_TAGVAR(archive_cmds, $1)='"$CC '"$tmp_sharedflag""$tmp_addflag""$libobjs $deplibs
$compiler_flags $wl-soname $wl$soname -o $lib'
if test $supports_anon_versioning = yes; then
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$echo "; > $output_objdir/$libname.ver~
cat $export_symbols | sed -e "s/(.*)(\d+)/\1/" >> $output_objdir/$libname.ver~
$echo "local: *; \}" >> $output_objdir/$libname.ver~
$CC "$tmp_sharedflag""$tmp_addflag""$libobjs $deplibs $compiler_flags $wl-soname $wl$soname
-version-script $wl$output_objdir/$libname.ver -o $lib'
fi
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;
;

netbsd*)
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='"$LD -Bshareable $libobjs $deplibs $linker_flags
-o $lib'
wlarc=
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='"$CC -shared $libobjs $deplibs $compiler_flags
$wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags
$wl$soname $wl$retain-symbols-file $wl$export_symbols -o $lib'
    fi
    ;;

solaris*)
  if $LD -v 2>&1 | grep 'BFD 2.8' > /dev/null; then
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
cat <<EOF 1>&2
** Warning: The releases 2.8.* of the GNU linker cannot reliably
** create shared libraries on Solaris systems. Therefore, libtool
** is disabling shared libraries support. We urge you to upgrade GNU
** binutils to release 2.9.1 or newer. Another option is to modify
** your PATH or compiler configuration so that the native linker is
** used, and then restart.

EOF
  elif $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='"$CC -shared $libobjs $deplibs $compiler_flags
$wl$soname $wl$retain-symbols-file $wl$export_symbols -o $lib'

*** Warning: The releases 2.8.* of the GNU linker cannot reliably
*** create shared libraries on Solaris systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.9.1 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

EOF
  elif $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='"$CC -shared $libobjs $deplibs $compiler_flags
$wl$soname $wl$retain-symbols-file $wl$export_symbols -o $lib'

*** Warning: The releases 2.8.* of the GNU linker cannot reliably
*** create shared libraries on Solaris systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.9.1 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

EOF
$wl$soname -o $lib'

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX*)
case 'SILD -v 2>&1' in
  *\[[01]\.]* | *\[2\.[0-9]\.]* | *\[2.1[0-5]\.]*
_LT_AC_TAGVAR(ld_shlibs, $1)=no

cat <<_LT_EOF 1>&2
*** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
*** reliably create shared libraries on SCO systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.16.91.0.3 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

_LT_EOF
;
if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-test -z "$SCOABSPATH" && echo ${wl}-rpath,$libdir"
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname,"${SCOABSPATH:+${install_libdir}/}$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname,"${SCOABSPATH:+${install_libdir}/}$soname,-retain-symbols-file,$export_symbols -o $lib'
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;
;

sunos4*)
_LT_AC_TAGVAR(archive_cmds, $1)="$LD -assert pure-text -Bshareable -o $lib $libobjs $deplibs
$linker_flags'"'

wlarc=
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;

*)
if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'

LT_AC_TAGVAR(archive_expsym_cmds, $1)="SCC -shared $libobjs $deplibs $compiler_flags $wl$soname $wl$soname $wl,retain-symbols-file $wl$export_symbols -o $lib'

LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac

if test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no; then
runpath_var=
LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
fi
else
# PORTME fill in a description of your system's linker (not GNU ld)
case $host_os in
aix3*)
LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
LT_AC_TAGVAR(always_export_symbols, $1)=yes
LT_AC_TAGVAR(archive_expsym_cmds, $1)="LD -o $output_objdir/$soname $libobjs $deplibs $linker_flags -bE:$export_symbols -T512 -H512 -bM:SRE~$AR $AR_FLAGS $lib $output_objdir/$soname'
# Note: this linker hardcodes the directories in LIBPATH if there
# are no directories specified by -L.
LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
if test "$GCC" = yes && test -z "$lt_prog_compiler_static"; then
# Neither direct hardcoding nor static linking is supported with a
# broken collect2.
LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
fi
;;

aix[4-9]*)
if test "$host_cpu" = ia64; then
# On IA64, the linker does run time linking by default, so we don't
# have to do anything special.
aix_use_runtimelinking=no
exp_sym_flag=-Bexport
no_entry_flag=""
else
# If we're using GNU nm, then we don't want the "-C" option.
# -C means demangle to AIX nm, but means don't demangle with GNU nm
if $NM 2>&1 | grep 'GNU' > /dev/null; then
else
fi
else
fi
fi
fi

aix_use_runtimelinking=no

# Test if we are trying to use run time linking or normal
# AIX style linking. If -brtl is somewhere in LDFLAGS, we
# need to do runtime linking.
case $host_os in aix4.[012]|aix4.[012].*)
  for ld_flag in $LDFLAGS; do
    if ([test] $ld_flag = "-brtl" || [test] $ld_flag = "-Wl,-brtl"); then
      aix_use_runtimelinking=yes
      break
    fi
  done
::
esac

exp_sym_flag=':-bexport'
no_entry_flag=':-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mminimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

_LT_AC_TAGVAR(archive_cmds, $1)=""
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if [test "$GCC" = yes]; then
case $host_os in aix4.[012]|aix4.[012].*)
  # We only want to do this on AIX 4.2 and lower, the check
  # below for broken collect2 doesn't work under 4.3+
  collect2name=${CC} -print-prog-name=collect2
  if [test -f "$collect2name" ];
    strings "$collect2name" | grep resolve_lib_name | grep -v /dev/null
  then
    # We have reworked collect2
    :
  else
    # We have old collect2
    _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
    # It fails to find uninstalled libraries when the uninstalled
    # path is not listed in the libpath. Setting hardcode_minus_L
    # to unsupported forces relinking
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
fi
::
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
    shared_flag="$shared_flag "'{wl}-G'
fi
else
    # not using gcc
    if test "$host_cpu" = ia64; then
        # VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
        # chokes on -Wl,-G. The following line is correct:
        shared_flag='-G'
    else
        if test "$aix_use_runtimelinking" = yes; then
            shared_flag=${wl}-G'
        else
            shared_flag=${wl}-bM:SRE'
        fi
    fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then
    # Warning - without using the other runtime loading flags (-brtl),
    # -berok will link without error, but may produce a broken library.
    _LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
    # Determine the default libpath from the value encoded in an empty executable.
    _LT_AC_SYS_LIBPATH_AIX
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:'"$aix_libpath"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)=""$CC" -o $output_objdir/$soname $libobjs $deplibs
        ""$[wl]$no_entry_flag" $compiler_flags 'if test "x${allow_undefined_flag}" != "x"; then echo
        "${wl}${allow_undefined_flag}"; else :; fi' ""${wl}$exp_sym_flag:"$export_symbols $shared_flag"
    else
        if test "$host_cpu" = ia64; then
            _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $libdir:/usr/lib:/lib'
            _LT_AC_TAGVAR(allow_undefined_flag, $1)="-z nodefs"
            _LT_AC_TAGVAR(archive_expsym_cmds, $1)=""$CC" $shared_flag" -o $output_objdir/$soname $libobjs $deplibs
                ""$[wl]$no_entry_flag" $compiler_flags $[wl]${allow_undefined_flag}
            ""$[wl]$exp_sym_flag:"$export_symbols"
        else
            # Determine the default libpath from the value encoded in an empty executable.
            _LT_AC_SYS_LIBPATH_AIX
# Warning - without using the other run time loading flags, -berok will link without error, but may produce a broken library.
# Exported symbols can be pulled into shared objects from archives
# This is similar to how AIX traditionally builds its shared libraries.

amigaos*)
  _LT_AC_TAGVAR(archive_cmds, $1)="$rm $output_objdir/a2ixlibrary.data~$echo "#define NAME $libname"
  > $output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION $major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $output_objdir/$libname$release.a $output_objdir/$soname'
fi
fi
;

bsdi[[45]]*)
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=-rdynamic
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=''
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  # see comment about different semantics on the GNU ld section
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;

  _LT_AC_TAGVAR(old_archive_From_new_cmds, $1)='true'

#FIXME: Setting linknames here is a bad hack.
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -o $lib $libobjs $deplibs ${wl}-bnoentry $compiler_flags $allow_undefined_flag}~$AR $AR_FLAGS $output_objdir/$libname$release.a $output_objdir/$soname'
fi
fi
;

cygwin* | mingw* | pw32*)
# When not using gcc, we currently assume that we are using # Microsoft Visual C++.
# hardcode_libdir_flag_spec is actually meaningless, as there is # no search path for DLLs.
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=''
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  # Tell ltmain to make .lib files, not .a files.
  libext=lib
  # Tell ltmain to make .dll files, not .so files.
  shrext_cmds=".dll"
  #FIXME: Setting linknames here is a bad hack.
  _LT_AC_TAGVAR(archive_cmds, $1)="/bin/nmake /all $libobjs $compiler_flags ';'echo "$deplibs" | $SED -e 's/ -le$\"/\" -link -dll(linknames)'
  # The linker will automatically build a .lib file if we build a DLL.
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=true'

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# FIXME: Should let the user specify the lib program.

```bash
LT_AC_TAGVAR(old_archive_cmds, $1)="lib -OUT:Oldlib$oldobjs$old_deplibs"
LT_AC_TAGVAR(fix_srcfile_path, $1)="cygpath -w "$srcfile"
LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes

;;

darwin* | rhapsody*)
LT_AC_TAGVAR(allow_undefined_flag, $1)="$lt_dar_allow_undefined"
LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
LT_AC_TAGVAR(hardcode_direct, $1)=no
LT_AC_TAGVAR(hardcode_automatic, $1)=yes
LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
LT_AC_TAGVAR(whole_archive_flag_spec, $1)="
LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$GCC" = yes ; then
    output_verbose_link_cmd='echo'
    LT_AC_TAGVAR(archive_cmds, $1)="$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname $verstring $lt_dar_single_mod${_lt_dsymutil}"
    LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $compiler_flags$($lt_dsymutil)"
    LT_AC_TAGVAR(archive_expsym_cmds, $1)="/sed 's.^._.' < $export_symbols > $output_objdir/$[libname]-symbols.expsym~$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname $verstring $lt_dar_single_mod$($lt_dar_export_sym)$($lt_dsymutil)"
    LT_AC_TAGVAR(module_expsym_cmds, $1)="/sed -e 's.^._.' < $export_symbols > $output_objdir/$[libname]-symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $compiler_flags$($lt_dar_export_sym)$($lt_dsymutil)"
else
case $cc_basename in
    xlc*)
        output_verbose_link_cmd='echo'
        LT_AC_TAGVAR(archive_cmds, $1)="$CC -qmkshrobj $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags $[wl]-install_name $[wl]'echo $rpath/$soname' $xlcerstring'
        LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $compiler_flags"
    *)
    LT_AC_TAGVAR(ld_shlibs, $1)=no
    esac
```


```bash
-dgux*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no

freebsd1*)
  _LT_AC_TAGVAR(archive_cmds, $1)=no

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++ constructor
# support. Future versions do this automatically, but an explicit c++rt0.o
# does not break anything, and helps significantly (at the cost of a little
# extra space).
freebsd2.2*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags
/usr/lib/c++rt0.o'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no

# Unfortunately, older versions of FreeBSD 2 do not have this feature.
freebsd2*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no

# FreeBSD 3 and greater uses gcc -shared to do shared libraries.
freebsd* | dragonfly*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -o $lib $libobjs $deplibs $compiler_flags'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no

hpux9*)
  if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -shared -fPIC ${wl}+b
$install_libdir -o $output_objdir/$soname $libobjs $deplibs $compiler_flags~test $output_objdir/$soname =
$lib || mv $output_objdir/$soname $lib'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$LD -b +b $install_libdir -o
```
$output_objdir/$soname $libobjs $deplibs $linker_flags~test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'

    fi
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes

    # hardcode_minus_L: Not really in the search PATH,
    # but as the default location of the library.
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

hpx10*)
    if test "$GCC" = yes -a "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)='${CC -shared -fPIC $wl}+h $wl}$soname $wl}+b $wl}$install_libdir
    -o $lib $libobjs $deplibs $compiler_flags'
    else
    _LT_AC_TAGVAR(archive_cmds, $1)='${LD -b +h $soname +b $install_libdir -o $lib $libobjs $deplibs $linker_flags'
    fi
    if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

    hpx11*)
    if test "$GCC" = yes -a "$with_gnu_ld" = no; then
    case $host_cpu in
    hppa*64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='${CC -shared $wl}+h $wl}$soname -o $lib $libobjs $deplibs $compiler_flags'
    ;;
    ia64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='${CC -shared $wl}+h $wl}$soname $wl}+nodefaultrpath -o $lib $libobjs $deplibs $compiler_flags'
    ;; *)
    _LT_AC_TAGVAR(archive_cmds, $1)='${CC -shared -fPIC $wl}+h $wl}$soname $wl}+b $wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'

    ;;

    if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

    # hardcode_minus_L: Not really in the search PATH,
    # but as the default location of the library.
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
::
esac
e else
case $host_cpu in
   hppa*64*)
      \_LT_AC_TAGVAR(archive_cmds, $1)=`CC -b ${wl}+h ${wl}$soname -o $lib $libobjs $deplibs $compiler_flags'
      ;;
i686*)
      \_LT_AC_TAGVAR(archive_cmds, $1)=`CC -b ${wl}+h ${wl}$soname ${wl}+nodefaultpath -o $lib $libobjs $deplibs $compiler_flags'
      ;;
   *)
      \_LT_AC_TAGVAR(archive_cmds, $1)=`CC -b ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
      ;;
esac
fi
if test "$with_gnu_ld" = no; then
   \_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
   \_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
   case $host_cpu in
      hppa*64*|ia64*)
         \_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)='+b $libdir'
         \_LT_AC_TAGVAR(hardcode_direct, $1)=no
         \_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
      ;;
      *)
         \_LT_AC_TAGVAR(hardcode_direct, $1)=yes
         \_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
   esac
fi
# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
   \_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
;;
esac
fi
;;
irix5* | irix6* | nonstopux*)
if test "$SGCC" = yes; then
   \_LT_AC_TAGVAR(archive_cmds, $1)=`CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version ${wl}$verstring' ${wl}-update_registry ${wl}-${output_objdir}/so_locations -o $lib'
else
   \_LT_AC_TAGVAR(archive_cmds, $1)=`LD -shared $libobjs $deplibs $linker_flags -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)='-rpath $libdir'
f
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;

netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
_ LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags' # a.out
    else
_ LT AC_TAGVAR(archive_cmds, $1)='$LD -shared -o $lib $libobjs $deplibs $linker_flags' # ELF
        fi
_ LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
_ LT_AC_TAGVAR(hardcode_direct, $1)=yes
_ LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;

newsos6)
_ LT AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
_ LT_AC_TAGVAR(hardcode_direct, $1)=yes
_ LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_ LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_ LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;

openbsd*)
    if test -f /usr/libexec/ld.so; then
_ LT_AC_TAGVAR(hardcode_direct, $1)=yes
_ LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    fi
if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
_ LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags'
_ LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags
${wl}-retain-symbols-file,$export_symbols'
_ LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_ LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
else
    case $host_os in
openbsd[01][* | openbsd2.[0-7]] | openbsd2.[0-7].[*]
_ LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags'
_ LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
;
*)
_ LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags'
_ LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
;
esac
fi
else
  $LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

os2*)
  $LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='\-L$libdir'
  $LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  $LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  $LT_AC_TAGVAR(archive_cmds, $1)='$secho "LIBRARY "$libname INITINSTANCE" >
$output_objdir/$libname.def~$secho "DESCRIPTION "$libname":"" >> $output_objdir/$libname.def~$secho DATA
>> $output_objdir/$libname.def~$secho " SINGLE NONSHARED" >> $output_objdir/$libname.def~$secho EXPORTS >> $output_objdir/$libname.def~emxexp $libobjs >> $output_objdir/$libname.def~$CC -Zdll -Zcrtdll -o $lib $libobjs $deplibs $compiler_flags $output_objdir/$libname.def'
  $LT_AC_TAGVAR(old_archive_From_new_cmds, $1)='emximp -o $output_objdir/$libname.a
$output_objdir/$libname.def'
fi

osf3*)
  if test "$GCC" = yes; then
    $LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}*'
    $LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag} $libobjs $deplibs $compiler_flags
$wl-sonomename $wl-sonomename test -n "$verstring" & & echo $wl-set_version $wl-verstring $wl-update_registry $wl-output_objdir}/so_locations -o $lib'
      else
    $LT_AC_TAGVAR(allow_undefined_flag, $1)='\-expect_unresolved \*'
    $LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared${allow_undefined_flag} $libobjs $deplibs $linker_flags -soname $soname 'test -n "$verstring" & & echo -set_version $verstring'-update_registry
$wl-output_objdir}/so_locations -o $lib'
      fi
  $LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='\-rpath \$libdir'
  $LT_AC_TAGVAR(hardcode_libdir_separator, $1):=
fi

osf4* | osf5*)# as osf3* with the addition of -msym flag
  if test "$GCC" = yes; then
    $LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}*'
  $LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag} $libobjs $deplibs $compiler_flags
$wl-msym $wl-sonomename $wl-sonomename test -n "$verstring" & & echo $wl-set_version $wl-verstring
$wl-update_registry $wl-output_objdir}/so_locations -o $lib'
    else
    $LT_AC_TAGVAR(allow_undefined_flag, $1)='\-expect_unresolved \*'
  $LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared${allow_undefined_flag} $libobjs $deplibs $linker_flags -msym -soname $soname test -n "$verstring" & & echo -set_version $verstring'-update_registry
$wl-output_objdir}/so_locations -o $lib'
    fi
  $LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='\for i in 'cat $export_symbols'; do printf "%s %s\n" -exported_symbol "$i" >> $lib.exp; done; echo "-hidden">> $lib.exp~
$LD -shared$[allow_undefined_flag] -input $lib.exp $linker_flags $libobjs $deplibs -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib-$rm $lib.exp'

# Both c and cxx compiler support -rpath directly
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath $libdir"

if
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

solaris*)
_LT_AC_TAGVAR(no_undefined_flag, $1)=" -z text"
if test "$GCC" = yes; then
wlarc='${wl}"
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared ${wl}-h ${wl}$soname -o $lib $libobjs $deplibs $compiler_flags"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$echo '{ global:" > $lib.exp~cat $export_symbols | $SED -e "s/\(.*\)/\1;/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$CC -shared ${wl}-M ${wl}$lib.exp ${wl}-h ${wl}$soname -o $lib $libobjs $deplibs Scompiler_flags~$rm $lib.exp"
else
wlarc=""
_LT_AC_TAGVAR(archive_cmds, $1)="$LD -G$[allow_undefined_flag] -h $soname -o $lib $libobjs $deplibs $linker_flags"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$echo '{ global:" > $lib.exp~cat $export_symbols | $SED -e "s/\(.*\)/\1;/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$LD -G$[allow_undefined_flag] -M $lib.exp -h $soname -o $lib $libobjs $deplibs $linker_flags~$rm $lib.exp"
fi

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-R$libdir"
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=no
case $host_os in
sunos4*)

# The compiler driver will combine and reorder linker options,
# but understands '-z linker_flag'. GCC discards it without '$wl',
# but is careful enough not to reorder.
# Supported since Solaris 2.6 (maybe 2.5.1?)
if test "$GCC" = yes; then
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$[wl]-z $[wl]allextract$convenience $[wl]-z $[wl]defaultextract"
else
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="-z allextract$convenience -z defaultextract"
fi

;;
esac
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

;;
sunos4*)
if test "x$host_vendor" = xsequent; then
  # Use SCC to link under sequent, because it throws in some extra .o
  # files that make .init and .fini sections work.
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -G ${wl}-h $soname -o $lib $libobjs $deplibs $compiler_flags"
  else
    _LT_AC_TAGVAR(archive_cmds, $1)="$LD -assert pure-text -Bstatic -o $lib $libobjs $deplibs $linker_flags"
  fi

  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-L$libdir"
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no

  sysv4)
    case $host_vendor in
      # LD is ld it makes a PLAMLIB
      sni)
        _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
        _LT_AC_TAGVAR(hardcode_direct, $1)=yes # is this really true???
        ;;
      ;;
      siemens)
        ## LD is ld it makes a PLAMLIB
        # CC just makes a GrossModule.
        _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -o $lib $libobjs $deplibs $linker_flags"
        _LT_AC_TAGVAR(reload_cmds, $1)="$CC -r -o $output$reload_objs"
        _LT_AC_TAGVAR(hardcode_direct, $1)=no
        ;;
      ;;
      motorola)
        _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
        _LT_AC_TAGVAR(hardcode_direct, $1)=no #Motorola manual says yes, but my tests say they lie
        ;;
      esac
      runpath_var='LD_RUN_PATH'
      _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
      ;;
    sysv4.3*)
      _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
      _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
      _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='-Bexport'
      ;;
    sysv4*MP*)
      if test -d /usr/nec; then
        _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
        _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
        runpath_var=LD_RUN_PATH
        hardcode_runpath_var=yes
        _LT_AC_TAGVAR(ld_shlibs, $1)=yes
      fi
  fi
fi
;

sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[01].[[10]]* | unixware7* | sco3.2v5.0.[024]*)
诓_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
诓_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
诓_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
runpath_var='LD_RUN_PATH'

if test "$GCC" = yes; then
诓_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
诓_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
else
诓_LT_AC_TAGVAR(archive_cmds, $1)="$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
诓_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -G ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
fi
;

sysv5* | sco3.2v5* | sco5v6*)
# Note: We can NOT use -z defs as we might desire, because we do not
# link with -lc, and that would cause any symbols used from libc to
# always be unresolved, which means just about no library would
# ever link correctly. If we're not using GNU ld we use -z text
# though, which does catch some bad symbols but isn't as heavy-handed
# as -z defs.
诓_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
诓_LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
诓_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
诓_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
诓_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='\"test -z "$SCOABSPATH" && echo ${wl}-R,$libdir\"'
诓_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
诓_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
诓_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
runpath_var='LD_RUN_PATH'

if test "$GCC" = yes; then
诓_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared ${wl}-h,$SCOABSPATH:+$[install_libdir]/$soname -o $lib $libobjs $deplibs $compiler_flags'
诓_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared ${wl}-Bexport:$export_symbols $[install_libdir]/$SCOABSPATH:+$[install_libdir]/$soname -o $lib $libobjs $deplibs $compiler_flags'
else
诓_LT_AC_TAGVAR(archive_cmds, $1)="$CC -G ${wl}-h,$SCOABSPATH:+$[install_libdir]/$soname -o $lib $libobjs $deplibs $compiler_flags'
诓_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -G ${wl}-Bexport:$export_symbols $libdir+$SCOABSPATH:+$[install_libdir]/$soname -o $lib $libobjs $deplibs $compiler_flags'
fi
;;

uts4*)
  _LT_AC_TAGVAR(archive_cmds, $1)='-SLD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-LSlibdir'
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

*)
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
  esac
fi
)
AC_MSG_RESULT([$_LT_AC_TAGVAR(ld_shlibs, $1)])
test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no && can_build_shared=no

#
# Do we need to explicitly link libc?
#
case "x$_LT_AC_TAGVAR(archive_cmds_need_lc, $1)" in
  x|xyes)
    # Assume -lc should be added
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
    if test "$enable_shared" = yes && test "$GCC" = yes; then
      case $_LT_AC_TAGVAR(archive_cmds, $1) in
        *~'*')
          # FIXME: we may have to deal with multi-command sequences.
          ;;
          '$CC *')
        # Test whether the compiler implicitly links with -lc since on some
        # systems, -lgcc has to come before -lc. If gcc already passes -lc
        # to ld, don't add -lc before -lgcc.
        AC_MSG_CHECKING([whether -lc should be explicitly linked in])
        $rm conftest*
        echo "$lt_simple_compile_test_code" > conftest.$ac_ext
      fi
      if AC_TRY_EVAL(ac_compile) 2>conftest.err; then
        soname=conftest
        lib=conftest
        libobjs=conftest.$ac_objext
        deplibs=
        wl=$_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)
        pic_flag=$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
        compiler_flags=-v
        linker_flags=-v
        verstring=
      fi
    fi
  esac

}
output_objdir=. 
libname=conftest
lt_save_allow_undefined_flag=${_LT_AC_TAGVAR(allow_undefined_flag, $1)}
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
if AC_TRY_EVAL(_LT_AC_TAGVAR(archive_cmds, $1) 2>&1 | grep -l -c '/' dev/null 2>&1) then
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
else
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
fi
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=$lt_save_allow_undefined_flag
else
cat conftest.err 1>&5
fi
$rm conftest*
AC_MSG_RESULT([$LT_AC_TAGVAR(archive_cmds_need_lc, $1)])
;
esac
esac
fi
;;
esac
}
)
# AC_LIBTOOL_PROG_LD_SHLIBS

# _LT_AC_FILE_LTDLL_C
# -------------------
# Be careful that the start marker always follows a newline.
AC_DEFUN([_LT_AC_FILE_LTDLL_C], [ 
# /* ltdll.c starts here */
#define WIN32_LEAN_AND_MEAN
#include <windows.h>
#undef WIN32_LEAN_AND_MEAN
#include <stdio.h>

#ifndef __CYGWIN__
#if defined __CYGWIN32__
#define __CYGWIN__ __CYGWIN32__
#endif
#endif

#ifdef __cplusplus
extern "C" {
#endif

BOOL APIENTRY DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved);
#ifdef __cplusplus
}
#endif

# BOOL APIENTRY DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved);
# ifndef __cplusplus
# }
# endif
#
/* ltdll.c ends here */
}

/* LT_AC_FILE_LTDLL_C */

#LT_AC_TAGVAR(VARNAME, [TAGNAME])
#---------------------------------
AC_DEFUN([LT_AC_TAGVAR], [ifelse([$2], [], [$1], [$1_$2]))

# old names
AC_DEFUN([AM_PROG_LIBTOOL], [AC_PROG_LIBTOOL])
AC_DEFUN([AM_ENABLE_SHARED], [AC_ENABLE_SHARED($@)])
AC_DEFUN([AM_DISABLE_SHARED], [AC_DISABLE_SHARED($@)])
AC_DEFUN([AM_ENABLE_STATIC], [AC_ENABLE_STATIC($@)])
AC_DEFUN([AM_DISABLE_STATIC], [AC_DISABLE_STATIC($@)])
AC_DEFUN([AM_PROG_LD], [AC_PROG_LD])
AC_DEFUN([AM_PROG_NM], [AC_PROG_NM])

# This is just to silence aclocal about the macro not being used
ifelse([AC_DISABLE_FAST_INSTALL])

AC_DEFUN([LT_AC_PROG_GCJ],
[AC_CHECK_TOOL(GCJ, gcj, no)
 test "x$GCJFLAGS+set" = xset || GCJFLAGS="-g -O2"
 AC_SUBST(GCJFLAGS)
})

AC_DEFUN([LT_AC_PROG_RC],
[AC_CHECK_TOOL(RC, windres, no)
])

# Cheap backport of AS_EXECUTABLE_P and required macros
# from Autoconf 2.59; we should not use $as_executable_p directly.

# _AS_TEST_PREPARE
# ---------------
m4_ifndef([AS_TEST_PREPARE],
[m4_defun([AS_TEST_PREPARE],
[if test -x / >/dev/null 2>&1; then
 as_executable_p='test -x'
else
 as_executable_p='test -f'
fi
])))# _AS_TEST_PREPARE

# AS_EXECUTABLE_P
# ---------------
# Check whether a file is executable.
m4_ifndef([AS_EXECUTABLE_P],
[m4_defun([AS_EXECUTABLE_P],
[AS_REQUIRE([AS_TEST_PREPARE])dnl
$as_executable_p $1[dnl
])])# AS_EXECUTABLE_P

# NOTE: This macro has been submitted for inclusion into #
# GNU Autoconf as AC_PROG_SED. When it is available in #
# a released version of Autoconf we should remove this   #
# macro and use it instead.                               #
# LT_AC_PROG_SED
# --------------
# Check for a fully-functional sed program, that truncates
# as few characters as possible. Prefer GNU sed if found.
AC_DEFUN([LT_AC_PROG_SED],
[AC_MSG_CHECKING([for a sed that does not truncate output])
AC_CACHE_VAL(lt_cv_path_SED,
[# Loop through the user's path and test for sed and gsed.
# Then use that list of sed's as ones to test for truncation.
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
 IFS=$as_save_IFS
test -z "$as_dir" && as_dir=.
for lt_ac_prog in sed gsed; do
 for ac_exec_ext in "$ac_executable_extensions"; do
 if AS_EXECUTABLE_P("$as_dir/$lt_ac_prog$ac_exec_ext"); then
  lt_ac_sed_list="$lt_ac_sed_list $as_dir/$lt_ac_prog$ac_exec_ext"
 fi
done
done
IFS=$as_save_IFS
lt_ac_max=0
lt_ac_count=0
# Add /usr/xpg4/bin/sed as it is typically found on Solaris
# along with /bin/sed that truncates output.
for lt_ac_sed in $lt_ac_sed_list /usr/xpg4/bin/sed; do
test ! -f $lt_ac_sed && continue
cat /dev/null > conftest.in
lt_ac_count=0
echo $ECHO_N "0123456789$ECHO_C" >conftest.in
# Check for GNU sed and select it if it is found.
if "$lt_ac_sed" --version 2>&1 < /dev/null | grep 'GNU' > /dev/null; then
  lt_cv_path_SED=$lt_ac_sed
  break
fi
while true; do
cat conftest.in conftest.in >conftest.tmp
mv conftest.tmp conftest.in
cp conftest.in conftest.nl
echo >>conftest.nl
$lt_ac_sed -e 's/a$//' < conftest.nl >conftest.out || break
cmp -s conftest.out conftest.nl || break
# 10000 chars as input seems more than enough
test $lt_ac_count -gt 10 && break
lt_ac_count='expr $lt_ac_count + 1'
if test $lt_ac_count -gt $lt_ac_max; then
  $lt_ac_max=$lt_ac_count
  lt_cv_path_SED=$lt_ac_sed
fi
done
done
)
SED=$lt_cv_path_SED
AC_SUBST([SED])
AC_MSG_RESULT([$SED])
)

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# AM_AUTOMAKE_VERSION(VERSION)
# -----------------------------
# Automake X.Y traces this macro to ensure aclocal.m4 has been
# generated from the m4 files accompanying Automake X.Y.
# (This private macro should not be called outside this file.)
AC_DEFUN[[AM_AUTOMAKE_VERSION],
[am__api_version='1.10'
dnl Some users find AM_AUTOMAKE_VERSION and mistake it for a way to
dnl require some minimum version. Point them to the right macro.
m4_if([$1], [1.10.1], []),
  [AC_FATAL([Do not call $0, use AM_INIT_AUTOMAKE([$1]).])]dnl
)

# _AM_AUTOCONF_VERSION(VERSION)
# -----------------------------
# aclocal traces this macro to find the Autoconf version.
# This is a private macro too. Using m4_define simplifies
# the logic in aclocal, which can simply ignore this definition.
m4_define([_AM_AUTOCONF_VERSION], [])

# AM_SET_CURRENT_AUTOMAKE_VERSION
# -------------------------------
# Call AM_AUTOMAKE_VERSION and AM_AUTOMAKE_VERSION so they can be traced.
# This function is AC_REQUIREd by AC_INIT_AUTOMAKE.
AC_DEFUN([AM_SET_CURRENT_AUTOMAKE_VERSION],
  [AM_AUTOMAKE_VERSION([1.10.1])dnl
  m4_ifndef([AC_AUTOCONF_VERSION],
    [m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION])]dnl
  _AM_AUTOCONF_VERSION(AC_AUTOCONF_VERSION)])

# AM_AUX_DIR_EXPAND
# -*- Autoconf -*-
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#
# For projects using AC_CONFIG_AUX_DIR([foo]), Autoconf sets
# $ac_aux_dir to '$srcdir/foo'. In other projects, it is set to
# '$srcdir', '$srcdir/..', or '$srcdir/../../..'.
#
# Of course, Automake must honor this variable whenever it calls a
# tool from the auxiliary directory. The problem is that $srcdir (and
# therefore $ac_aux_dir as well) can be either absolute or relative,
# depending on how configure is run. This is pretty annoying, since
# it makes $ac_aux_dir quite unusable in subdirectories: in the top
# source directory, any form will work fine, but in subdirectories a
# relative path needs to be adjusted first.
#
# $ac_aux_dir/missing
#   fails when called from a subdirectory if $ac_aux_dir is relative
# $top_srcdir/$ac_aux_dir/missing
#   fails if $ac_aux_dir is absolute,
# $ac_aux_dir/missing
#   fails when called from a subdirectory in a VPATH build with
#   a relative $ac_aux_dir
# The reason of the latter failure is that $top_srcdir and $ac_aux_dir
# are both prefixed by $srcdir. In an in-source build this is usually
# harmless because $srcdir is '.', but things will broke when you
# start a VPATH build or use an absolute $srcdir.
#
# So we could use something similar to $top_srcdir/$ac_aux_dir/missing,
# if we strip the leading $srcdir from $ac_aux_dir. That would be:
# am_aux_dir="$(top_srcdir)/"expr "$ac_aux_dir" : "$srcdir//*/(.*)""
# and then we would define $MISSING as
# MISSING="$SHELL $am_aux_dir/missing"
# This will work as long as MISSING is not called from configure, because
# unfortunately $(top_srcdir) has no meaning in configure.
# However there are other variables, like CC, which are often used in
# configure, and could therefore not use this "fixed" $ac_aux_dir.
#
# Another solution, used here, is to always expand $ac_aux_dir to an
# absolute PATH. The drawback is that using absolute paths prevent a
# configured tree to be moved without reconfiguration.

AC_DEFUN([AM_AUX_DIR_EXPAND],
[dnl Rely on autoconf to set up CDPATH properly.
AC_PREREQ([2.50])]
dnl
# expand $ac_aux_dir to an absolute path
am_aux_dir='cd $ac_aux_dir && pwd'
)

# AM_CONDITIONAL                                            -*- Autoconf -*-
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#
# serial 8

# AM_CONDITIONAL(NAME, SHELL-CONDITION)
# --------------------------------------
# Define a conditional.
AC_DEFUN([AM_CONDITIONAL],
[AC_PREREQ([2.52])]
dnl
ifelse([$1], [TRUE], [AC_FATAL([$0: invalid condition: $1])],
[$1], [FALSE], [AC_FATAL([$0: invalid condition: $1])])
dnl
AC_SUBST([{$1_TRUE}])
dnl
AC_SUBST([{$1_FALSE}])
dnl
_AM_SUBST_NOTMAKE([{$1_TRUE}])
dnl
_AM_SUBST_NOTMAKE([$1_FALSE])dnl
if $2; then
    $1_TRUE=
    $1_FALSE=('#'
else
    $1_TRUE=('#'
    $1_FALSE=
fi
AC_CONFIG_COMMANDS_PRE(
    [if test -z "${$1_TRUE}" && test -z "${$1_FALSE}"; then
        AC_MSG_ERROR([[[conditional "$1" was never defined. Usually this means the macro was only invoked conditionally.]]])
    fi])
)

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#
# serial 9
#
# There are a few dirty hacks below to avoid letting 'AC_PROG_CC' be
# written in clear, in which case automake, when reading aclocal.m4,
# will think it sees a *use*, and therefore will trigger all it's
# C support machinery. Also note that it means that autoscan, seeing
# CC etc. in the Makefile, will ask for an AC_PROG_CC use...

# _AM_DEPENDENCIES(NAME)
# ----------------------
# See how the compiler implements dependency checking.
# NAME is "CC", "CXX", "GCJ", or "OBJC".
# We try a few techniques and use that to set a single cache variable.
#
# We don't AC_REQUIRE the corresponding AC_PROG_CC since the latter was
# modified to invoke _AM_DEPENDENCIES(CC); we would have a circular
# dependency, and given that the user is not expected to run this macro,
# just rely on AC_PROG_CC.
AC_DEFUN([_AM_DEPENDENCIES],
    [AC_REQUIRE([AM_SET_DEPDIR])dnl
    AC_REQUIRE([AM_OUTPUT_DEPENDENCY_COMMANDS])dnl
    AC_REQUIRE([AM_MAKE_INCLUDE])dnl
    AC_REQUIRE([AM_DEP_TRACK])dnl
    ifelse([$1], CC,  [depcc="$CC"  am_compiler_list=],
        [$1], CXX,  [depcc="$CXX"  am_compiler_list=],
        [$1], GCJ,  [depcc="$GCJ"  am_compiler_list=],
        [$1], OBJC, [depcc="$OBJC"  am_compiler_list=]
    )
)
[\$1], OBJC, [depcc="\$OBJC" am_compiler_list='gcc3 gcc'],
[\$1], UPC, [depcc="\$UPC" am_compiler_list=],
[\$1], GCJ, [depcc="\$GCJ" am_compiler_list='gcc3 gcc'],
[depcc="\$1" am_compiler_list=])

AC_CACHE_CHECK([dependency style of $depcc],
[am_cv_$1_dependencies_compiler_type],
[if test -z "$AMDEP_TRUE" && test -f "Sam_depcomp"; then
  # We make a subdir and do the tests there. Otherwise we can end up
  # making bogus files that we don’t know about and never remove. For
  # instance it was reported that on HP-UX the gcc test will end up
  # making a dummy file named ‘D’ -- because ‘-MD’ means ‘put the output
  # in D’.
  mkdir conftest.dir
  # Copy depcomp to subdir because otherwise we won’t find it if we’re
  # using a relative directory.
  cp "Sam_depcomp" conftest.dir
  cd conftest.dir
  # We will build objects and dependencies in a subdirectory because
  # it helps to detect inapplicable dependency modes. For instance
  # both Tru64’s cc and ICC support -MD to output dependencies as a
  # side effect of compilation, but ICC will put the dependencies in
  # the current directory while Tru64 will put them in the object
  # directory.
  mkdir sub
  am_cv_$1_dependencies_compiler_type=none
  if test "$am_compiler_list" = ""; then
    am_compiler_list=\n      sed -n [s/^\([a-zA-Z0-9]*\)$/\1/p]
          -i < ./depcomp'
  fi
  for depmode in $am_compiler_list; do
    # Setup a source with many dependencies, because some compilers
    # like to wrap large dependency lists on column 80 (with \), and
    # we should not choose a depcomp mode which is confused by this.
    #
    # We need to recreate these files for each test, as the compiler may
    # overwrite some of them when testing with obscure command lines.
    # This happens at least with the AIX C compiler.
    : > sub/conftest.c
    for i in 1 2 3 4 5 6; do
      echo '#include "conftst\$i\'.h"' >> sub/conftest.c
      # Using : > sub/conftst\$i.h' creates only sub/conftst1.h with
      # Solaris 8's /usr,/bin/sh.
      touch sub/conftst\$i.h
      done
echo "$\{am__include\} $\{am__quote\}sub/conftest.Po$\{am__quote\}" > confmf
  case $depmode in

nosideeffect)
# after this tag, mechanisms are not by side-effect, so they'll
# only be used when explicitly requested
if test "x-enable_dependency_tracking" = xyes; then
continue
else
break
fi
);
none) break ;;
 esac
# We check with `-c' and `-o' for the sake of the "dashmstdout"
# mode. It turns out that the SunPro C++ compiler does not properly
# handle `-M -o', and we need to detect this.
if depmode=$depmode \
  source=sub/conf/test.c object=sub/conf/test.$[OBJEXT-o] \
  deprecfile=sub/conf/test.Po tmpdeprecfile=sub/conf/test.TPo \
  $SHELL ./depcomp $deprec -c -o sub/conf/test.$[OBJEXT-o] sub/conf/test.c \
  >/dev/null 2>conf/test.err &&
grep sub/conf/test1.h sub/conf/test.Po > /dev/null 2>&1 &&
grep sub/conf/test6.h sub/conf/test.Po > /dev/null 2>&1 &&
grep sub/conf/test.$[OBJEXT-o] sub/conf/test.Po > /dev/null 2>&1 &&
${MAKE-make} -s -f conf/mf > /dev/null 2>&1; then
# icc doesn't choke on unknown options, it will just issue warnings
# or remarks (even with -Werror). So we grep stderr for any message
# that says an option was ignored or not supported.
# When given -MP, icc 7.0 and 7.1 complain thusly:
# # The diagnosis changed in icc 8.0:
# # icc: Command line warning: ignoring option '-M'; no argument required
if (grep 'ignoring option' conf/test.err || grep 'not supported' conf/test.err) >/dev/null 2>&1; then :; else
am_cv_$1_dependencies_compiler_type=$depmode
break
fi
fi
done

cd ..
rm -rf conf/test.dir
else
am_cv_$1_dependencies_compiler_type=none
fi
})
AC_SUBST([$1DEPMODE], [depmode=$am_cv_$1_dependencies_compiler_type])
AM_CONDITIONAL([am__fastdep$1], [
  test "x-enable_dependency_tracking" != xno \
  && test "$am_cv_$1_dependencies_compiler_type" = gcc3])
# AM_SET_DEPDIR
# ------------
# Choose a directory name for dependency files.
# This macro is AC_REQUIREd in _AM_DEPENDENCIES
AC_DEFUN([AM_SET_DEPDIR],
[AC_REQUIRE([AM_SET_LEADING_DOT])dnl
AC_SUBST([DEPDIR], ["${am__leading_dot}deps"]dnl
])

# AM_DEP_TRACK
# -----------
AC_DEFUN([AM_DEP_TRACK],
[AC_ARG_ENABLE(dependency-tracking,
[  --disable-dependency-tracking  speeds up one-time build
  --enable-dependency-tracking   do not reject slow dependency extractors])
if test "x$enable_dependency_tracking" != xno; then
  am_depcmp="$ac_aux_dir/depcomp"
  AMDEPBACKSLASH='\'
fi
AC_CONDITIONAL([AMDEP], [test "x$enable_dependency_tracking" != xno])
AC_SUBST([AMDEPBACKSLASH])dnl
_AM_SUBST_NOTMAKE([AMDEPBACKSLASH])dnl
])

# Generate code to set up dependency tracking.   -*- Autoconf -*-
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serial 3

# _AM_OUTPUT_DEPENDENCY_COMMANDS
# ------------------------------
AC_DEFUN([_AM_OUTPUT_DEPENDENCY_COMMANDS],
[for mf in $CONFIG_FILES; do
 # Strip MF so we end up with the name of the file.
mf='echo "$mf" | sed -e 's/[^/]*$//g'
 # Check whether this is an Automake generated Makefile or not.
 # We used to match only the files named 'Makefile.in', but
 # some people rename them; so instead we look at the file content.
]
# Grep'ing the first line is not enough: some people post-process
# each Makefile.in and add a new line on top of each file to say so.
# Grep'ing the whole file is not good either: AIX grep has a line
# limit of 2048, but all sed's we know have understand at least 4000.
if sed -n 's/^#.*generated by automake.*/,X,p\"$mf\" | grep X >/dev/null 2>&1; then
dirpart=`AS_DIRNAME("$mf")`
else
    continue
fi
# Extract the definition of DEPDIR, am__include, and am__quote
# from the Makefile without running 'make'.
DEPDIR=`sed -n 's/^DEPDIR = //p' < "$mf"`
test -z "$DEPDIR" && continue
am__include=`sed -n 's/^am__include = //p' < "$mf"`
test -z "am__include" && continue
am__quote=`sed -n 's/^am__quote = //p' < "$mf"`
# When using ansi2knr, U may be empty or an underscore; expand it
U=`sed -n 's/^U = //p' < "$mf"`
# Find all dependency output files, they are included files with
# $DEPDIR in their names. We invoke sed twice because it is the
# simplest approach to changing $DEPDIR to its actual value in the
# expansion.
for file in `sed -n "s/^$am__include $am__quote(.*$am__quote)$am__quote"/$\1/p" "$mf"`
    do
    # Make sure the directory exists.
test -f "$dirpart/$file" && continue
    fdir=`AS_DIRNAME(["$file"])`
    AS_MKDIR_P(["$dirpart/$fdir"])
    # echo "creating $dirpart/$file"
    echo '# dummy' > "$dirpart/$file"
done
done
)"# _AM_OUTPUT_DEPENDENCY_COMMANDS

# AM_OUTPUT_DEPENDENCY_COMMANDS
# -----------------------------
# This macro should only be invoked once -- use via AC_REQUIRE.
# This code is only required when automatic dependency tracking
# is enabled. FIXME. This creates each `.P` file that we will
# need in order to bootstrap the dependency handling code.
AC_DEFUN([AM_OUTPUT_DEPENDENCY_COMMANDS],
[AC_CONFIG_COMMANDS([depfiles],
    [test x"$SAMDEP_TRUE" != x""
    || _AM_OUTPUT_DEPENDENCY_COMMANDS],
    [AMDEP_TRUE="$SAMDEP_TRUE" acAux_dir="$acAux_dir")])
])
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#
# serial 8

# AM_CONFIG_HEADER is obsolete. It has been replaced by AC_CONFIG_HEADERS.
AU_DEFUN([AM_CONFIG_HEADER], [AC_CONFIG_HEADERS($@)])

# Do all the work for Automake.        -*- Autoconf -*-

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#
# serial 13

# This macro actually does too much. Some checks are only needed if
# your package does certain things. But this isn't really a big deal.

# AM_INIT_AUTOMAKE(PACKAGE, VERSION, [NO-DEFINE])
# AM_INIT_AUTOMAKE([OPTIONS])
# -----------------------------------------------
# The call with PACKAGE and VERSION arguments is the old style
# call (pre autoconf-2.50), which is being phased out. PACKAGE
# and VERSION should now be passed to AC_INIT and removed from
# the call to AM_INIT_AUTOMAKE.
# We support both call styles for the transition. After
# the next Automake release, Autoconf can make the AC_INIT
# arguments mandatory, and then we can depend on a new Autoconf
# release and drop the old call support.
AC_DEFUN([AM_INIT_AUTOMAKE],
[AC_PREREQ([2.60])]dnl
dnl Autoconf wants to disallow AM_ names. We explicitly allow
dnl the ones we care about.
m4_pattern_allow([^AM_[A-Z]+FLAGS$])dnl
AC_REQUIRE([AM_SET_CURRENT_AUTOMAKE_VERSION])dnl
AC_REQUIRE([AC_PROG_INSTALL])dnl
if test "cd $srmdir && pwd" != "$pwd"; then
# Use -I$(srmdir) only when $(srmdir) != ., so that make's output
# is not polluted with repeated "-I,"
AC_SUBST([am__isrc], [' -I$(srcdir)'])_AM_SUBST_NOTMAKE([am__isrc])

# test to see if $srcdir already configured
if test -f $srcdir/config.status; then
  AC_MSG_ERROR([source directory already configured; run "make distclean" there first])
fi
fi

# test whether we have cygpath
if test -z "$CYGPATH_W"; then
  if (cygpath --version) >/dev/null 2>/dev/null; then
    CYGPATH_W='cygpath -w'
  else
    CYGPATH_W=echo
  fi
  fi
AC_SUBST([CYGPATH_W])

# Define the identity of the package.
dnl Distinguish between old-style and new-style calls.
m4_ifval([$2],
  [m4_ifval([$3], [_AM_SET_OPTION([no-define])])]
AC_SUBST([PACKAGE], [$1])
AC_SUBST([VERSION], [$2]),
[_AM_SET_OPTIONS($1)])

dnl Diagnose old-style AC_INIT with new-style AM_AUTOMAKE_INIT.
m4_if(m4_ifdef([AC_PACKAGE_NAME], 1)m4_ifdef([AC_PACKAGE_VERSION], 1), 11,,
  [m4_fatal([AC_INIT should be called with package and version arguments])] )
AC_SUBST([PACKAGE], [AC_PACKAGE_TARIAME])
AC_SUBST([VERSION], [AC_PACKAGE_VERSION])

_AM_IF_OPTION([no-define],
  [AC_DEFINE_UNQUOTED(PACKAGE, "$PACKAGE", [Name of package])
AC_DEFINE_UNQUOTED(VERSION, "$VERSION", [Version number of package])] )

# Some tools Automake needs.
AC_REQUIRE([AM_SANITY_CHECK])
AC_REQUIRE([AC_ARG_PROGRAM])
AM_MISSING_PROG(ACLOCAL, aclocal-$[am__api_version])
AM_MISSING_PROG(AUTOCONF, autoconf)
AM_MISSING_PROG(AUTOMAKE, automake-$[am__api_version])
AM_MISSING_PROG(AUTOHEADER, autoheader)
AM_MISSING_PROG(MAKEINFO, makeinfo)
AM_PROG_INSTALL_SH
AM_PROG_INSTALL_STRIP
AC_REQUIRE([AM_PROG_MKDIR_P])

# We need awk for the "check" target. The system "awk" is bad on
# some platforms.
AC_REQUIRE([AC_PROG_AWK])
AC_REQUIRE([AC_PROG_MAKE_SET])
AC_REQUIRE([AM_SET_LEADING_DOT])

_AM_IF_OPTION([tar-ustar], [AM_PROG_TAR([ustar])],
    [AM_PROG_TAR([v7])])

_AM_IF_OPTION([no-dependencies],
[AC_PROVIDE_IFELSE([AC_PROG_CC],
    [AM_DEPENDENCIES(CC)],
    [define([AC_PROG_CC],
        defn([AC_PROG_CC])[AM_DEPENDENCIES(CC)])])
AC_PROVIDE_IFELSE([AC_PROG_CXX],
    [AM_DEPENDENCIES(CXX)],
    [define([AC_PROG_CXX],
        defn([AC_PROG_CXX])[AM_DEPENDENCIES(CXX)])])
AC_PROVIDE_IFELSE([AC_PROG_OBJC],
    [AM_DEPENDENCIES(OBJC)],
    [define([AC_PROG_OBJC],
        defn([AC_PROG_OBJC])[AM_DEPENDENCIES(OBJC)])])
)
)

# When config.status generates a header, we must update the stamp-h file.
# This file resides in the same directory as the config header
# that is generated. The stamp files are numbered to have different names.

# Autoconf calls _AC_AM_CONFIG_HEADER_HOOK (when defined) in the
# loop where config.status creates the headers, so we can generate
# our stamp files there.
AC_DEFUN([_AC_AM_CONFIG_HEADER_HOOK],
    [# Compute $1's index in $config_headers.
    _am_arg=$1
    _am_stamp_count=1
    for _am_header in $config_headers ;; do
        case $am_header in
            $am_arg | $am_arg:* )
                break ;;
            * )
            _am_stamp_count='expr $_am_stamp_count + 1' ;;
        esac
done
echo "timestamp for $_am_arg" >'AS_DIRNAME(["$_am_arg"])/stamp-h[$_am_stamp_count]

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# AM_PROG_INSTALL_SH
# ------------------
# Define $install_sh.
AC_DEFUN([AM_PROG_INSTALL_SH],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
install_sh=${install_sh-"$(SHELL) $am_aux_dir/install-sh"}
AC_SUBST(install_sh)])

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# serial 2

# Check whether the underlying file-system supports filenames
# with a leading dot. For instance MS-DOS doesn't.
AC_DEFUN([AM_SET_LEADING_DOT],
[rmdir .tst 2>/dev/null
mkdir .tst 2>/dev/null
if test -d .tst; then
  am__leading_dot=.
else
  am__leading_dot=_
fi
rmdir .tst 2>/dev/null
AC_SUBST([am__leading_dot])])

# Check to see how 'make' treats includes.      -*- Autoconf -*-
#
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# serial 3

# AM_MAKE_INCLUDE()
# -----------------
# Check to see how make treats includes.
AC_DEFUN([AM_MAKE_INCLUDE],
[am_make=${MAKE-make}
cat > confinc << 'END'
am__doit:
@echo done
.PHONY: am__doit
END
# If we don't find an include directive, just comment out the code.
AC_MSG_CHECKING([for style of include used by $am_make])
am__include="#"
am__quote=
_am_result=none
# First try GNU make style include.
echo "include confinc" > confmf
# We grep out 'Entering directory' and 'Leaving directory'
# messages which can occur if 'w' ends up in MAKEFLAGS.
# In particular we don't look at '^make:' because GNU make might
# be invoked under some other name (usually "gmake"), in which
# case it prints its new name instead of 'make'.
if test "'$am_make -s -f confmf 2> /dev/null | grep -v 'ing directory'" = "done"; then
    am__include=include
    am__quote=
    _am_result=GNU
fi
# Now try BSD make style include.
if test "$am__include" = "#"; then
    echo '.include "confinc"' > confmf
    if test "'$am_make -s -f confmf 2> /dev/null'" = "done"; then
        am__include=\"
        am__quote=""
        _am_result=BSD
    fi
fi
AC_SUBST([am__include])
AC_SUBST([am__quote])
AC_MSG_RESULT([$_am_result])
rm -f confinc confmf
}

# Fake the existence of programs that GNU maintainers use.  -*- Autoconf -*-

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#
# serial 5

# AM_MISSING_PROG(NAME, PROGRAM)
# -------------------------------
AC_DEFUN([AM_MISSING_PROG],

# AM_MISSING_HAS_RUN
# ------------------
# Define MISSING if not defined so far and test if it supports --run.
# If it does, set am_missing_run to use it, otherwise, to nothing.
AC_DEFUN([AM_MISSING_HAS_RUN],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])]
AC_REQUIRE_AUX_FILE([missing])
test x"${MISSING+set}" = xset || MISSING="${SHELL} $am_aux_dir/missing"
# Use eval to expand $SHELL
if eval "$MISSING --run true"; then
  am_missing_run="$MISSING --run "
else
  am_missing_run=
  AC_MSG_WARN(['missing' script is too old or missing])
fi)

#
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# AM_PROG_MKDIR_P
# ---------------
# Check for 'mkdir -p'.
AC_DEFUN([AM_PROG_MKDIR_P],
[AC_PREREQ([2.60])]
AC_REQUIRE([AC_PROG_MKDIR_P])
dnl Automake 1.8 to 1.9.6 used to define mkdir_p. We now use MKDIR_P,
dnl while keeping a definition of mkdir_p for backward compatibility.
dnl @MKDIR_P@ is magic: AC_OUTPUT adjusts its value for each Makefile.
dnl However we cannot define mkdir_p as $(MKDIR_P) for the sake of
dnl Makefile.ins that do not define MKDIR_P, so we do our own
dnl adjustment using top_builddir (which is defined more often than
dnl MKDIR_P).
AC_SUBST([mkdir_p], ["$MKDIR_P"])
case $mkdir_p in
  [[!$]]* | ?-:[[!V]]* ) ;;
  */$) mkdir_p="$(top_builddir)/$mkdir_p" ;;
esac
)
# Helper functions for option handling.                       -*- Autoconf -*-

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#
# serial 3

# _AM_MANGLE_OPTION(NAME)
# ------------------------
AC_DEFUN([_AM_MANGLE_OPTION],
[[_AM_OPTION_|m4_bpatsubst($1, [^[a-zA-Z0-9_-]], [^])]])

# _AM_SET_OPTION(NAME)
# ----------------------
# Set option NAME. Presently that only means defining a flag for this option.
AC_DEFUN([_AM_SET_OPTION],
[m4_define(_AM_MANGLE_OPTION([$1]), 1)])

# _AM_SET_OPTIONS(OPTIONS)
# ---------------------------
# OPTIONS is a space-separated list of Automake options.
AC_DEFUN([_AM_SET_OPTIONS],
[AC_FOREACH(_AM_Option, [$1], [_AM_SET_OPTION(_AM_Option)])])

# _AM_IF_OPTION(OPTION, IF-SET, [IF-NOT-SET])
# --------------------------------------------
# Execute IF-SET if OPTION is set, IF-NOT-SET otherwise.
AC_DEFUN([_AM_IF_OPTION],
[m4_ifset(_AM_MANGLE_OPTION([$1]), [$2], [$3])])

# Check to make sure that the build environment is sane.  -*- Autoconf -*-

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# serial 4

# AM_SANITy_CHECK
# ---------------
AC_DEFUN([AM_SANITY_CHECK],
[AC_MSG_CHECKING([whether build environment is sane])]
# Just in case
echo timestamp > conftest.file
# Do 'set' in a subshell so we don't clobber the current shell's
# arguments. Must try -L first in case configure is actually a
# symlink; some systems play weird games with the mod time of symlinks
# (eg FreeBSD returns the mod time of the symlink's containing
# directory).
if (
    set X 'ls -Lt $srcdir/configure conftest.file 2> /dev/null'
    if test "[$*]" = "X"; then
      # -L didn't work.
      set X 'ls -t $srcdir/configure conftest.file'
    fi
    rm -f conftest.file
    if test "[$*]" != "X $srcdir/configure conftest.file" \
       && test "[$*]" != "X conftest.file $srcdir/configure"; then
      # If neither matched, then we have a broken ls. This can happen
      # if, for instance, CONFIG_SHELL is bash and it inherits a
      # broken ls alias from the environment. This has actually
      # happened. Such a system could not be considered "sane".
      AC_MSG_ERROR([ls -t appears to fail. Make sure there is not a broken
      alias in your environment])
    fi
    test "$[2]" = conftest.file
  )
then
  # Ok.
  :
else
  AC_MSG_ERROR([newly created file is older than distributed files!
    Check your system clock])
  fi
AC_MSG_RESULT(yes])

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# AM_PROG_INSTALL_STRIP
# ---------------------
# One issue with vendor 'install' (even GNU) is that you can't
# specify the program used to strip binaries. This is especially
# annoying in cross-compiling environments, where the build's strip
# is unlikely to handle the host's binaries.
# Fortunately install-sh will honor a STRIPPROG variable, so we
# always use install-sh in 'make install-strip', and initialize
# STRIPPROG with the value of the STRIP variable (set by the user).
AC_DEFUN([AM_PROG_INSTALL_STRIP],
[AC_REQUIRE([AM_PROG_INSTALL_SH])dnl
# Installed binaries are usually stripped using 'strip' when the user
# run 'make install-strip'. However 'strip' might not be the right
# tool to use in cross-compilation environments, therefore Automake
# will honor the 'STRIP' environment variable to overrule this program.
dnl Don't test for $cross_compiling = yes, because it might be 'maybe'.
if test "$cross_compiling" != no; then
   AC_CHECK_TOOL([STRIP], [strip], :)
fi
INSTALL_STRIP_PROGRAM="$\$(\text{install_sh}) -c -s"
AC_SUBST([INSTALL_STRIP_PROGRAM])

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# _AM_SUBST_NOTMAKE(VARIABLE)
# ---------------------------
# Prevent Automake from outputting VARIABLE = @VARIABLE@ in Makefile.in.
# This macro is traced by Automake.
AC_DEFUN([_AM_SUBST_NOTMAKE])

# Check how to create a tarball. -^.- Autoconf -^.-

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# serial 2

# _AM_PROG_TAR(FORMAT)
# ---------------------
# Check how to create a tarball in format FORMAT.
# FORMAT should be one of `v7', `ustar', or `pax'.
#
# Substitute a variable $(am__tar) that is a command
# writing to stdout a FORMAT-tarball containing the directory
# $tardir.
# tardir=directory && $(am__tar) > result.tar
# Substitute a variable $(am__untar) that extract such
# a tarball read from stdin.
# $(am__untar) < result.tar
AC_DEFUN([.AM_PROG_TAR],
# Always define AMTAR for backward compatibility.
AM_MISSING_PROG([AMTAR], [tar])
m4_if([$1], [v7],
    [am__tar='${AMTAR} chof - "$$tardir"'; am__untar='${AMTAR} xf -'],
    [m4_case([$1], [ustar],,, [pax],,,
        [m4_fatal([Unknown tar format])])
AC_MSG_CHECKING([how to create a $1 tar archive])
# Loop over all known methods to create a tar archive until one works.
_am_tools='gnutar m4_if([$1], [ustar], [plaintar]) pax cpio none'
_am_tools=${am_cv_prog_tar_$1-$_am_tools}
# Do not fold the above two line into one, because Tru64 sh and
# Solaris sh will not grok spaces in the rhs of `-'
for _am_tool in $_am_tools
do
case $_am_tool in
gnutar)
    for _am_tar in tar gnutar gtar;
    do
        AM_RUN_LOG([$_am_tar --version]) && break
done
am__tar="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - '"$$tardir"'
am__tar_="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - '"$tardir"'
am__untar="$_am_tar -xf -."
;
plaintar)
    # Must skip GNU tar: if it does not support --format= it doesn't create
    # ustar tarball either.
    (tar --version) >/dev/null 2>&1 && continue
    am__tar='tar chf - "$$tardir"
    am__tar_='tar chf - "$tardir"
    am__untar='tar xf -.'
    ;;
pax)
    am__tar='pax -L -x $1 -w "$Stardir"
    am__tar_='pax -L -x $1 -w "$Stardir"
    am__untar='pax -r'
    ;;
cpio)
    am__tar='find "$Stardir" -print | cpio -o -H $1 -L'
    am__tar_='find "$Stardir" -print | cpio -o -H $1 -L'
    am__untar='cpio -i -H $1 -d'
    ;;
none)
am__tar=false
am__tar_=false
am__untar=false
;
;
esac

# If the value was cached, stop now. We just wanted to have am__tar
# and am__untar set.
test -n "${am_cv_prog_tar_$1}" && break

# tar/untar a dummy directory, and stop if the command works
rm -rf conftest.dir
mkdir conftest.dir
echo GrepMe > conftest.dir/file
AM_RUN_LOG([tardir=conftest.dir && eval $am__tar_ >conftest.tar])
rm -rf conftest.dir
if test -s conftest.tar; then
    AM_RUN_LOG([${am__untar <conftest.tar}])
grep GrepMe conftest.dir/file >/dev/null 2>&1 && break
fi
done
rm -rf conftest.dir

AC_CACHE_VAL([am_cv_prog_tar_$1], [am_cv_prog_tar_$1=${am_tool}])
AC_MSG_RESULT([${am_cv_prog_tar_$1}])
AC_SUBST([am__tar])
AC_SUBST([am__untar])
} # _AM_PROG_TAR

#!/bin/sh
# Common stub for a few missing GNU programs while installing.

scriptversion=2003-09-02.23

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1.377 libjpeg-turbo 1.2.1 :3.el6_5

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DOCUMENTATION ROADMAP
=========================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.
The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, lttmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.
The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K.  "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.  (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.)  If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz.  The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material.  Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in “The Data Compression Book” by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1.  This book provides good explanations and example C code for a multitude of compression methods including JPEG.  It is an excellent source if you are comfortable reading C code but don't know much about data compression in general.  The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format.  For the omitted details we follow the "JFIF" conventions, revision 1.02.  JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status.  It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm.  A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz.  There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz.  The JPEG incorporation scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8d.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body send usenet/news.answers/jpeg-faq/part1 send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS
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The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR", which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format! (In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
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Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.
1.378 libnih 1.0.1 :7.el6

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1.380 libogg 1.1.4 :2.1.el6

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1.381 libpcap 1.4.0 :4.20130826git2dbcaa1.el6

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1.383 libphonenumber 1.0.0

1.384 libpng 1.2.49 :2.el6_7
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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
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    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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License instead of this License to a given copy of the Library. To do
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4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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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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\begin{verbatim}
texindex foo.??
tex foo.texi
tex foo.texi
dvips foo.dvi -o \# or whatever; this makes foo.ps.
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The extra TeX runs get the cross-reference information correct.
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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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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.

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

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

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1.405 libwww/Library/src/vms/ 5.4.0

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/

#include "xmldef.h"

#ifdef XML_UNICODE_WCHAR_T
#ifndef XML_UNICODE
#define XML_UNICODE
#endif
#endif

#include "hashtable.h"

#define INIT_SIZE 64

static
int keyeq(KEY s1, KEY s2)
{
    for (; *s1 == *s2; s1++, s2++)
        if (*s1 == 0)
            return 1;

    return 0;
return 0;
}

static
unsigned long hash(KEY s)
{
    unsigned long h = 0;
    while (*s)
        h = (h << 5) + h + (unsigned char)*s++;
    return h;
}

NAMED *lookup(HASH_TABLE *table, KEY name, size_t createSize)
{
    size_t i;
    if (table->size == 0) {
        if (!createSize)
            return 0;
        table->v = calloc(INIT_SIZE, sizeof(NAMED *));
        if (!table->v)
            return 0;
        table->size = INIT_SIZE;
        table->usedLim = INIT_SIZE / 2;
        i = hash(name) & (table->size - 1);
    }
    else {
        unsigned long h = hash(name);
        for (i = h & (table->size - 1);
             table->v[i] && (i == 0 ? i = table->size - 1 : --i) {
            if (keyeq(name, table->v[i]->name))
                return table->v[i];
        }
        if (!createSize)
            return 0;
        if (table->used == table->usedLim) {
            /* check for overflow */
            size_t newSize = table->size * 2;
            NAMED **newV = calloc(newSize, sizeof(NAMED *));
            if (!newV)
                return 0;
            for (i = 0; i < table->size; i++)
                if (table->v[i]) {
                    size_t j;
                    for (j = hash(table->v[i]->name) & (newSize - 1);
                         newValue[j];
                        j == 0 ? j = newSize - 1 : --j)
                ;
newV[j] = table->v[i];
}
free(table->v);
table->v = newV;
table->size = newSize;
table->usedLim = newSize/2;
for (i = h & (table->size - 1);
table->v[i];
i == 0 ? i = table->size - 1 : --i)
;
}
}
table->v[i] = calloc(1, createSize);
if (!table->v[i])
return 0;
table->v[i]->name = name;
(table->used)++;
return table->v[i];
}

void hashTableDestroy(HASH_TABLE *table)
{
  size_t i;
  for (i = 0; i < table->size; i++) {
    NAMED *p = table->v[i];
    if (p)
      free(p);
  }
  free(table->v);
}

void hashTableInit(HASH_TABLE *p)
{
  p->size = 0;
  p->usedLim = 0;
  p->used = 0;
  p->v = 0;
}

void hashTableIterInit(HASH_TABLE_ITER *iter, const HASH_TABLE *table)
{
  iter->p = table->v;
  iter->end = iter->p + table->size;
}

NAMED *hashTableIterNext(HASH_TABLE_ITER *iter)
{
  while (iter->p != iter->end) {

NAMED *tem = *(iter->p)+++;  
if (tem)  
    return tem;  
}  
return 0;  
}  

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1.408 libXau 1.0.6 :4.el6

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1.411 libXcursor 1.1.14 :2.1.el6

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1.413 libXext 1.3.3 :1.el6
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1.415 libXfont 1.4.5 :5.el6_7

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1.424 libXtst 1.2.2 :2.1.el6

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Here is a list of the main contributors to lm-sensors version 3.

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* Merlin Hughes
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  Many improvements to the libsensors configuration file scanner.
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  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.443.1 Available under license :
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Version 2, June 1991

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

Preamble

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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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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.

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1.445 masonry-layout 3.3.2

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1.446 matches-selector 1.0.3

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1.449 mdadm 3.3.4 :1.el6

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```
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```
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- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
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- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- Michael Barone <michael.barone@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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Open Source Used In Finesse 12.0(1)

- MD5-based authentication
- Adaptation of foundation code for Version 3 as specified in RFC-1305
- Network I/O, Windows Port, Code Maintenance

- VMS port
- ntptrace utility

- SCO OpenServer port
- Digital UNIX V4.0 port
- Saved a Lot of space on the stuff in the html/pic/ subdirectory

- HP-UX port
- USNO clock driver

- Datum PTS clock driver
- Multicast/anycast support

- TrueTime GPS driver, generic TrueTime clock driver
- Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de>
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3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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45. [49]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
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51. [55] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
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<signature of Ty Coon>, 1 April 1989
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Open Source Used In Finesse 12.0(1)
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Liability
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Warranty
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<h5 class="mt-1 mb-2">Conditions</h5>
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License and copyright notice
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<td>24</td>
<td>exercising permissions granted by this License.</td>
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<td>&quot;Source&quot; form shall mean the preferred form for making modifications,</td>
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<td>&quot;Object&quot; form shall mean any form resulting from mechanical</td>
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<td>transformation or translation of a Source form, including but not limited to compiled object code, generated documentation,</td>
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<td id="LC132" class="blob-code blob-code-inner js-file-line">by You to the Licensor shall be under the terms and conditions of</td>
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1.490 openldap 2.4.40 :12.el6

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1.501 pango 1.28.1 :11.el6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

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

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

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

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Each licensee is addressed as "you".

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

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

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

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

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

a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy
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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.

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

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

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

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

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

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[This is the first released version of the library GPL. It is
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Preamble

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free software--to make sure the software is free for all its users.

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

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

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

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

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

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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<head>
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<link rel="stylesheet" href="skin/mysite.css" type="text/css"/>
<link rel="stylesheet" href="skin/site.css" type="text/css"/>
window.print() ;
} else {
var WebBrowser = '<OBJECT ID="WebBrowser1" WIDTH="0" HEIGHT="0" CLASSID="CLSID:8856F961340A-11D0-A96B-00C04FD705A2"></OBJECT>';
document.body.insertAdjacentHTML('beforeEnd', WebBrowser);
WebBrowser1.ExecWB(6, 2);//Use a 1 vs. a 2 for a prompting dialog box WebBrowser1.outerHTML = "";
}
}
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var NS = (navigator.appName == "Netscape");
var VERSION = parseInt(navigator.appVersion);
if (VERSION > 3) {
document.write(' <a title="PRINT this page OUT" href="javascript:printit()">PRINT</a>');
}
</script>
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<div class="menu">
<span class="menuLabel">Overview</span>
<div class="menuItem">
<a href="index.html">Home</a>
</div>
<div class="menuItem">
<a href="download.html">Download</a>
</div>
<div class="menuItem">
<a href="overview.html">Components</a>
</div>
<div class="menuItem">
<a href="text-extraction.html">Text Extraction</a>
</div>

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<div class="menuItem">
<a href="howtobuild.html">How To Build</a></div>

<div class="menuItem">
<a href="guidelines.html">Contribution Guidelines</a></div>

<div class="menuItem">
<a href="who.html">Who We Are</a></div>

<div class="menu">
<span class="menuLabel">Component APIs</span>

<div class="menuItem">
<a href="spreadsheet/index.html">Excel (SS=HSSF+XSSF+SXSSF)</a></div>

<div class="menuItem">
<a href="slideshow/index.html">PowerPoint (SL=HSLF+XSLF)</a></div>

<div class="menuItem">
<a href="document/index.html">Word (WP=HWPF+XWPF)</a></div>

<div class="menuItem">
<a href="hsmf/index.html">Outlook (HSMF)</a></div>

<div class="menuItem">
<a href="diagram/index.html">Visio (HDGF+XDGF)</a></div>

<div class="menuItem">
<a href="hpbf/index.html">Publisher (HPBF)</a></div>

</div>

<div class="menu">
<span class="menuLabel">Low-level Component APIs</span>

<div class="menuItem">
<a href="poifs/index.html">OLE2 Filesystem (POIFS)</a></div>

</div>
<div class="menuItem">
<a href="hpsf/index.html">OLE2 Document Props (HPSF)</a></div>

<div class="menuItem">
<a href="hmef/index.html">TNEF (HMEF) for winmail.dat</a></div>

<div class="menuItem">
<a href="oxml4j/index.html">OpenXML4J (OOXML)</a></div>

<div class="menuItem">
<a href="logging.html">Logging framework</a></div>

</div>

<div class="menu">
<span class="menuLabel">Apache Wide</span>

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<a href="https://www.apache.org/">Apache Software Foundation</a></div>

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<a href="https://www.apache.org/licenses/">License</a></div>

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<a href="https://www.apache.org/foundation/sponsorship.html">Sponsorship</a></div>

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<a href="https://www.apache.org/foundation/thanks.html">Thanks</a></div>

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<a href="https://www.apache.org/security/">Security</a></div>

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The cryptographic software used is from `<em>java.security</em>` and `<em>javax.crypto</em>` and is used when processing encrypted and protected documents.

by Tetsuya Kitahata, David Fisher
1.515 policycoreutils 2.0.83 :30.1.el6_8

1.515.1 Available under license:

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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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[This is the first released version of the library GPL. It is
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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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
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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
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which has been distributed under these terms. A "work based on the
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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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
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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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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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

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

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   "Ian Fleming was a UNIX fan!

   How do I know? Well, James Bond

   had the (license to kill) number 007.
|    |    |    |    | i.e., he could execute anyone!"

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Version 2.1, February 1999

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-- Lennart Poettering, April 20th, 2006.

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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 (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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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.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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1.530.1 Available under license :
   From RPM File Metadata:BSD

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schema/trex.py

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test/domapi/ (and test/test_pyxmldom.py)

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1.535 QUnit 1.11.0

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1.536 radvd 1.6 :1.el6

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1.537 react 15.6.1

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1.543 react-waypoint 8.0.3

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1.544 readahead 1.5.6 :2.el6

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* */
package org.slf4j.helpers;
import java.io.ObjectStreamException;
import java.io.Serializable;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Serves as base class for named logger implementation. More significantly, this
 * class establishes deserialization behavior. See @see #readResolve.
 * 
 * @author Ceki Gulcu
 * @since 1.5.3
 */
abstract class NamedLoggerBase implements Logger, Serializable {

private static final long serialVersionUID = 7535258609338176893L;

protected String name;

public String getName() {
    return name;
}

/**
 * Replace this instance with a homonymous (same name) logger returned
* by LoggerFactory. Note that this method is only called during
* deserialization.
* 
* <p>
* This approach will work well if the desired ILoggerFactory is the one
* references by LoggerFactory. However, if the user manages its logger hierarchy
* through a different (non-static) mechanism, e.g. dependency injection, then
* this approach would be mostly counterproductive.
* 
* @return logger with same name as returned by LoggerFactory
* @throws ObjectStreamException
*/
protected Object readResolve() throws ObjectStreamException {
    // using getName() instead of this.name works even for
    // NOPLogger
    return LoggerFactory.getLogger(getName());
}

1.580 slf4j-api 1.7.2
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1.619 sysfsutils 2.1.0 :7.el6

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1.627 tcsh 6.17 :35.el6

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and other useful pieces of code. If I've left you out, please let me know!

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*/
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* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/
#ifndef _h_config
#define _h_config
/******************** System dependant compilation flags ********************/
/*
* POSIX	This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX
/*
* POSIXJOBS	This system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef POSIXJOBS
/*
* VFORK	This machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK
*/
* BSDJOBS
You have BSD-style job control (both process groups and
a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMES
You have BSD-style process time stuff (like rusage)
*This may or may not be true. For example, Apple Unix
*(OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMIT
You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*
* TERMIO
You have struct termio instead of struct sgttyb.
* This is usually the case for SYSV systems, where
*BSD uses sgttyb. POSIX systems should define this
*anyway, even though they use struct termios.
*/
#undef TERMIO

/*
* SYSVREL
Your machine is SYSV based (HPUX, A/UX)
*NOTE: don't do this if you are on a Pyramid -- tcsh is
*built in a BSD universe.
*Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
*you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL0

/*
* YPBUGS
Work around Sun YP bugs that cause expansion of ~username
*to send command output to /dev/null
*/
#undef YPBUGS

/******************** local defines ********************/

#undef NLS_CATALOGS
#endif /* _h_config */
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1.634 tomcat-apr 5.5.23

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
1.639 Trio 0.0

1.639.1 Available under license:

README -- trio

Trio is a package with portable string functions. Including printf() clones
and others.

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Trio is intended to be an integral part of another application, so we
have not done anything to create a proper installation.

Compile with 'make' (edit the Makefile if you want a release build)

Test the package with 'make test'

Install by copying trio.h, triop.h, and libtrio.a (and man/man?/* if
you want documentation) to the appropriate directories.

Catch some usage examples in example.c

Send feedback and patches to the mailing list, subscription and other
information is found here:

http://lists.sourceforge.net/lists/listinfo/ctrio-talk

Enjoy!

Trio web page

http://daniel.haxx.se/trio/

1.640 ttmkfdir 3.0.9 :32.1.el6
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Yu Shao <yshao@redhat.com>
8 January 2003

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

Preamble

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freedom to share and change it. By contrast, the GNU General Public
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preserving your freedom as a user of such programs to change the free
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abdera-parser-0.4.0-incubating.jar
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axis2-codegen-1.4.1.jar
axis2-java2wsdl-1.4.1.jar
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collections-logging-1.1.1.jar
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gdata-client-1.0.jar
gdata-client-meta-1.0.jar
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geronimo-common-1.2-beta.jar
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geronimo-j2ee-jacc_1.0_spec-1.1.jar
geronimo-j2ee-management_1.0_spec-1.1.jar
geronimo-javamail_1.4_spec-1.2.jar
geronimo-jms_1.1_spec-1.1.jar
geronimo-jpa_3.0_spec-1.0.jar
geronimo-jta_1.0.1B_spec-1.0.jar
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geronimo-management-1.2-beta.jar
geronimo-naming-1.2-beta.jar
geronimo-security-1.2-beta.jar
geronimo-spec-j2ee-connector-1.5-rc4.jar
geronimo-spec-jta-1.0.1B-rc4.jar
geronimo-system-1.2-beta.jar
geronimo-transaction-1.2-beta.jar
geronimo-util-1.2-beta.jar
httpcore-4.0-beta1.jar
httpcore-nio-4.0-beta1.jar
jettison-1.0.1.jar
jetty-6.1.7.jar
jetty-util-6.1.7.jar
json-rpc-1.0.jar
log4j-1.2.13.jar
mex-1.41-impl.jar
neethi-2.0.4.jar
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ode-bpel-compiler-1.1.1.jar
ode-bpel-dao-1.1.1.jar
node-bpel-epr-1.1.1.jar
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node-dao-jpa-ojpa-derby-1.1.1.zip
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node-jacob-ap-1.1.1.jar
node-scheduler-simple-1.1.1.jar
node-utils-1.1.1.jar
openjpa-all-0.9.7-incubating.jar
openjpa-persistence-0.9.7-incubating.jar
opensaml-1.1.jar
org.apache.felix.bundlerepository-1.0.3.jar
org.apache.felix.framework-1.0.4.jar
org.apache.felix.main-1.0.4.jar
org.apache.felix.shell-1.0.1.jar
org.apache.felix.shell.tui-1.0.1.jar
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rampart-policy-1.4.jar
rampart-trust-1.4.jar
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spring-core-2.5.5.jar
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tuscany-sca-all-1.4.jar
tuscany-sca-manifest.jar
tuscany-sdo-api-r2.1-1.1.1.jar
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tuscany-sdo-lib-1.1.1.jar
tuscany-sdo-tools-1.1.1.jar
woden-api-1.0M8.jar
woden-impl-dom-1.0M8.jar
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xbean-naming-2.7.jar
xercesImpl-2.8.1.jar
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xmlbeans-2.3.0.jar
xmlParserAPIs-2.6.0.jar
xml-resolver-1.1.jar
xmlsec-1.4.2.jar
XmlSchema-1.4.2.jar

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axion-1.0-M3-dev.jar

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codegen.ecore-2.2.3.jar
common-2.2.3.jar
ecore-2.2.3.jar
ecore.change-2.2.3.jar
ecore.xmi-2.2.3.jar
xsd-2.2.3.jar
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For the Rhino JavaScript engine js-1.6R7.jar:

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jaxb-impl-2.1.7.jar,
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jsr181-api-1.0-MR1.jar,
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@@ -1,12 +1,12 @@
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
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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.

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

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1.669 xml-apis 2.0.2


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

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

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

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