Open Source Used In Cisco D9800 Network Transport Receiver Version 3.75

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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

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

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1.3 base-files 3.0.14 :r89.1

1.3.1 Available under license :

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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".
The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

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2. Conveying Modified Versions.

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b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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Preamble

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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7. You may place library facilities that are a work based on the
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b) Give prominent notice with the combined library of the fact
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The End
1.4 base-passwd 3.5.29

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Maintainer: Colin Watson <cjwatson@debian.org>

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if (typeof jQuery === 'undefined') { throw new Error('Bootstrap requires jQuery') }

/* ======================================================================== * Bootstrap: transition.js v3.1.0 * http://getbootstrap.com/javascript/#transitions * ======================================================================== */

1.7 busybox 1.24.1 1.24.1 :0

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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1.13 cronie 1.5.1

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Availability in digital form:

Data format: ESRI Shapefile
Network links: <http://nationalatlas.gov/atlasftp.html>
Data format: SDTS
Network links: <http://nationalatlas.gov/atlasftp.html>

Cost to order the data:

There is no charge for the online option. For National Atlas files ordered on CD-ROM there is a base price of $45.00 per disc, a handling fee of $5.00, and a per-file charge based on file size. The charge for files less than 10 megabytes in size is $1.00. The charge for files that range in size from 10 to 150 megabytes is $7.50. The charge for files of 150 megabytes or larger is $15.00. The charge is $7.50 for the Major Roads of the United States data set.

Special instructions:

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These Shapefile data have been then reformatted into a simple JSON format

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/* FAT32, VFAT, Atari format support, and various fixes additions May 1998
 * by Roman Hodek <Roman.Hodek@informatik.uni-erlangen.de> */

1.25 dropbear 2016.74

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curve25519-donna: Curve25519 elliptic curve, public key function

http://code.google.com/p/curve25519-donna/

Adam Langley <agl@imperialviolet.org>

Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

More information about curve25519 can be found here
http://cr.yp.to/ecdh.html

djb's sample implementation of curve25519 is written in a special assembly
language called qasm and uses the floating point registers.

This is, almost, a clean room reimplementation from the curve25519 paper. It
uses many of the tricks described therein. Only the crecip function is taken
from the sample implementation.

*/
1.26.1 Available under license:

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

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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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"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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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*! 
 - Unix SMB/CIFS implementation.
+ trivial database library - standalone version
 
 - trivial database library - private includes
 -
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 ** NOTE! The following LGPL license applies to the tdb
 ** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

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

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd .; $(LN) $(LINK_BUILD_FLAGS) $(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-shlibs-strip: install-shlibs

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

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

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Gadi Oxman, August 1995

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/*

1.27 elfutils 0.172
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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
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src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
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src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF

1.35 gawk 4.1.4
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That's all there is to it!

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**1.36 gcc 6.3.0**

**1.36.1 Available under license :**

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Version 2.1, February 1999

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

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

c) Accompany the work with a written offer, valid for at least
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@enumerate 0
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@item
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@end example

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David Megginson, sax@megginson.com
1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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#
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# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
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#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

def report(self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write(string + '\n')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            "COPYING",
            "COPYING.LIB",
            "COPYING3",
            "COPYING3.LIB",
            "LICENSE",
            "fdl.texi",
            "gpl_v3.texi",
            "fdl-1.3.xml",
            "gpl-3.0.xml",

            # Skip auto- and libtool-related files
            "aclocal.m4",
            "compile",
            "config.guess",
            "config.sub",
            "depcomp",
        '])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'
')

    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?[-0-9,.\s]+and\s+]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.,-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|\s+and\s+|.\s+and\s+')

        # Matches a full copyright notice:
        self.copyright_re = re.compile (*
            # 1: 'Copyright (C)', etc.
            '[Cc]opyright'
            '[Cc]opyright\s+\&\s+\[Cc\]'
            '[Cc]opyright\s+\%s'
            '[Cc]opyright\s+&copy;']
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*(:\+ ranges + `.?)'
'[@\value\{[^{}]*\})\s*]'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(' + holder + '(?:\s' + holder + ')*)?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
  re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
  if not canon_form:
    canon_form = holder
  self.holders[holder] = canon_form
  index = holder.find ('')
  while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find ('', index + 1)

def add_external_author (self, holder):
  self.holders[holder] = None

class BadYear():
def __init__(self, year):
    self.year = year

def __str__(self):
    return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        else:
            raise self.BadYear(string)
    return year

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
if match:
    line = line[match.end():].lstrip()
return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                'trailing characters in @set: '
                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match (line, match.start())
            assert match

    holder = match.group (4)
# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[match.start (2)]
        + ('' if intro.startswith ('copyright = ') else ' ') +
        canon_form + self.separator +
        line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[match.start (1)] + intro + line[match.end (1):]
# Strip trailing whitespace
line = line.rstrip() + 'n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                            file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search (line):
                        self.errors.report (pathname,
                            'unrecognised copyright: %s'
                            % line.strip())
                    lines.append (line)
                    line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                    if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])

os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them', self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice', self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('Directories:
')

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('Directories:
')
format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + 'n')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '\n':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
        if self.errors.ok():
            if len (self.chosen_dirs) == 0:
                self.chosen_dirs = self.default_dirs
            if len (self.chosen_dirs) == 0:
                self.o_help()
            else:
                for chosen_dir in self.chosen_dirs:
                    canon_dir = os.path.join (chosen_dir, '')
                    count = 0
                    for (dir, filter) in self.dirs:
                        if (dir + os.sep).startswith (canon_dir):
                            count += 1
                            self.copyright.process_tree (dir, filter)
                    if count == 0:
                        self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                        sys.exit (0 if self.errors.ok() else 1)

#-------------------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True
class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ({
            'math-68881.h',
        })

        self.skip_dirs |= set ({
            'ada',
            'testsuite',
        })

        self.skip_extensions |= set ({
            '.po',
            '.pot',
        })

        self.fossilised_files |= set ({
            'ONEWS',
        })

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_extensions |= set([
    # Don't change the tests, which could be woend by anyone.
    '.c',
    '.C',
    '.cc',
    '.h',
    '.hs',
    '.f',
    '.f90',
    '.go',
    '.inc',
    '.java',
    ])

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
            ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
            ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set([
            # Handled separately.
def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):  
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set({
            # Handled separately.
            'testsuite',
        })

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set({
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        })

        self.skip_dirs |= set({
            # Contains automatically-generated sources.
            'html',
        }
        # The testsuite data files shouldn't be changed.
        'data',

        # Contains imported images
        'images',
    )

        self.own_files |= set({
            # Contains markup around the copyright owner.

        })
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation\.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL\.)
        self.add_external_author('Cavium Networks\.')
        self.add_external_author('Faraday Technology Corp\.')
        self.add_external_author('Florida State University\')
        self.add_external_author('Greg Colvin and Beman Dawes\.)
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council\.)
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura\.)
        self.add_external_author('National Research Council of Canada\.)
        self.add_external_author('NVIDIA Corporation\)
        self.add_external_author('Peter Dimov and Multi Media Ltd\.)
        self.add_external_author('Peter Dimov\)
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        self.add_external_author('Regents of the University of California\.)
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        self.add_external_author('Silicon Graphics\)
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class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir (include)
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libc++', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
            'libatomic',
            'libbacktrace',
            'libc++',
            'libdecnumber',
            'libgcc',
            'libgfortran',
            'libgomp',
            'libiberty',
            'libitm',
            'libjava',
            'libmudflap',
            'libobjc',
            'libquadmath',
            'libssp',
            'libstdc++-v3',
            'libvtv',
            'lto-plugin',
            'zlib']
GCCCmdLine().main()

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the
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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
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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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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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@end iftex
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@enumerate 1 @item

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.

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The modified work must itself be a software library.
@item
You must cause the files modified to carry prominent notices
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@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.

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@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
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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
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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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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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.)

2. 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
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@enumerate a
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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library
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Give prominent notice with the combined library of the fact
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@end enumerate

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#ifndef __java_security_Permission__
define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
 namespace security
 {
  class Permission;
  class PermissionCollection;
 }
 }
}
class java::security::Permission : public ::java::lang::Object
{
public:
Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};  
#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
    class Permission : public ::java::lang::Object
    {

        public:
            virtual jboolean equals(::java::lang::Object *) = 0;
            virtual ::java::lang::String * toString() = 0;
    }  
}  
}
}

class java::security::acl::Permission : public ::java::lang::Object
static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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import java.util.Map;
import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**<n*
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }
public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

class CopyrightTaglet {
    public String toString(Tag[] tags) {
        if (tags.length == 0) {
            return null;
        } else {
            boolean haveValidTag = false;
            for (int i = 0; i < tags.length && !haveValidTag; ++i) {
                if (tags[i].text().length() > 0) {
                    haveValidTag = true;
                }
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

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/* Permission.java -- The superclass for all permission objects
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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>’s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable
{
/**
 * Compatible with JDK 1.1+
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
* This is the name assigned to this permission object.
* 
* @serial the name of the permission
*/
private String name;

/**
* Create an instance with the specified name.
*
* @param name the permission name
*/
public Permission(String name)
{
    this.name = name;
}

/**
* This method implements the <code>Guard</code> interface for this class.
* It calls the <code>checkPermission</code> method in
* <code>SecurityManager</code> with this <code>Permission</code> as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
*
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
    {
        sm.checkPermission(this);
    }

/**
* This method tests whether this <code>Permission</code> implies that the
* specified <code>Permission</code> is also granted.
*
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
*
* @param obj the object to compare to
*/
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
*/
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
*/
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
*/
public PermissionCollection newPermissionCollection()
{
    return null;
}
/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!getActions().equals(""))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission {

/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 * @param perm The permission to check for equality
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */

boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
 */

String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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1 java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ
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checkGuard(Ljava/lang/Object;)V
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%'&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
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$&%java/lang/System'i(
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yManager$Permission;
```c++

// DO NOT EDIT THIS FILE - it is machine generated

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
```
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dossier@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.mitia.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.)

@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
c man end
@c man begin COPYRIGHT
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@c man end
@end ignore

@c This file is intended to be included in another file.

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first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@c man end
\" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
\"\n\" Standard preamble:
\"=======================================================================
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
.. \de Vb \" Begin verbatim text
Set up some character translations and predefined strings. `{-- will give an unbreakable dash, `{PI will give pi, `{L" will give a left double quote, and `{R" will give a right double quote. `{C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. `{C" and `{C' expand to `" in nroff, `{nothing in troff, for use with C<<.

```
\tr `{*-W-
\ds C+ C\^\-1v\h\-1p\'s-2+\h\-1p\'+\s0\v\h\-1p\'
\ie n \{
  . ds -- `{*-W-
  . ds PI pi
  . if (\n(.H=4u)&(1m=24u) .ds -- `{*W\h\-12u\(*W\h\-12u\'-\v'
diablo 10 pitch
  . if (\n(.H=4u)&(1m=20u) .ds -- `{*W\h\-12u\(*W\h\-8u\'-\v'
diablo 12 pitch
  . ds L" "
  . ds R" "
  . ds C" "
  . ds C'
'br\}
\cB\{
  . ds -- \(|(em|)
  . ds PI \(*p
  . ds L" "
  . ds R" "
  . ds C'
  . ds C'
'br\}
```

```
\tr `{*W-
\ds C+ C\^\-1v\h\-1p\'s-2+\h\-1p\'+\s0\v\h\-1p\'
\ie n \{
  . ds -- `{*-W-
  . ds PI pi
  . if (\n(.H=4u)&(1m=24u) .ds -- `{*W\h\-12u\(*W\h\-12u\'-\v'
diablo 10 pitch
  . if (\n(.H=4u)&(1m=20u) .ds -- `{*W\h\-12u\(*W\h\-8u\'-\v'
diablo 12 pitch
  . ds L" "
  . ds R" "
  . ds C" "
  . ds C'
'br\}
\cB\{
  . ds -- \(|(em|)
  . ds PI \(*p
  . ds L" "
  . ds R" "
  . ds C'
  . ds C'
'br\}
```

Escape single quotes in literal strings from groff's Unicode transform.

```
\ie \n(g .ds Aq \(aq
\el .ds Aq '
```

If the F register is >0, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.

```
\if !\nF .nr F 0
```
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

simple accents for nroff and troff

troff and (daisy-wheel) nroff accents
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```

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```
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```

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
define ASM_SHORT "\t.word\t"
define ASM_LONG "\t.long\t"
define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
    fputs (".comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
    fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
    fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT)
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of \text{2}^{\text{LOG}} bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
    if ((LOG)!=0) fprintf ((FILE), \".align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
    sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX \"_\"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1
/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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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
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Also, for each distributor's protection, we want to make certain
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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.

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

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

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

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

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

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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
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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 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.)

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 *
 * Author: Nicolas Dufresne <nicolas.dufresne@collabora.co.uk>
 */

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Version 2, June 1991

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

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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.

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

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

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1.41 glib_gplv3_portions 2.50.3

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

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be optional: if the application does not supply it, the square
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and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s
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You may charge a fee for the physical act of transferring a copy,
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fee.

2. You may modify your copy or copies of the Library or any portion
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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
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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
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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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necessary. Here is a sample; alter the names:

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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!

1.49 gstreamer1.0-plugins-bad 1.8.3
1.49.1 Available under license:

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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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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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1074
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1.54 init-ifupdown 1.0

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1.61 libdaemon 0.14
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# GCC-compatible wrapper for cl.exe and ml.exe. Arguments are given in GCC
# format and translated into something sensible for cl or ml.
#
args_orig=$@
args="-nologo -W3"
static_crt=
debug_crt=
cl="cl"
ml="ml"
safeseh="-safeseh"
output=

while [ $# -gt 0 ]
do
case $1 in
    -fexceptions)
        # Don't enable exceptions for now.
        #args="$args -EHac"
        shift 1
        ::
    -m32)
        shift 1
        ::
    -m64)
        ml="ml64" # "$MSVC/x86_amd64/ml64"
        safeseh=
        shift 1
        ::
    -clang-cl)
        cl="clang-cl"
        safeseh=
        shift 1
        ::
    -甚至还)
        sa...
shift 1
::
-O0)
args="$args -Od"
shift 1
::
-O*)
# Runtime error checks (enabled by setting -RTC1 in the -DFFI_DEBUG
case below) are not compatible with optimization flags and will
case $args_orig in
  *-DFFI_DEBUG*)
    args="$args"
::
  *)
# The ax_cc_maxopt.m4 macro from the upstream autoconf-archive
# project doesn't support MSVC and therefore ends up trying to
# use -O3. Use the equivalent "max optimization" flag for MSVC
  # instead of erroring out.
    case $1 in
      -O3)
        args="$args -O2"
        ::
        *)
          args="$args $1"
          ::
          esac
    esac
    shift 1
::
-g)
# Enable debug symbol generation.
    args="$args -Zi"
    shift 1
::
-DFFI_DEBUG)
# Enable runtime error checks.
    args="$args -RTC1"
    defines="$defines $1"
    shift 1
::
-DUSE_STATIC_RTL)
# Link against static CRT.
    static_crt=1
    shift 1
-DUSE_DEBUG_RTL)
   # Link against debug CRT.
   debug_crt=1
   shift 1

   -c)
   args="$args -c"
   args="$(echo $args | sed 's%/Fe%/Fo%g')"
   single="-c"
   shift 1

   -D*=*)
   name="$(echo $1|sed 's/-D\([^=]\([^=]*\)=.*/\1/g')"
   value="$(echo $1|sed 's/-D[^=][^=]=//g')"
   args="$args -DS\{name\}="$value"
   defines="$defines -DS\{name\}="$value"
   shift 1

   -D*)
   args="$args $1"
   defines="$defines $1"
   shift 1

   -I)
   args="$args -I$2"
   includes="$includes -I$2"
   shift 2

   -I*)
   args="$args $1"
   includes="$includes $1"
   shift 1

   -W|-Wextra)
   # TODO map extra warnings
   shift 1

   -Wall)
   # -Wall on MSVC is overzealous, and we already build with -W3. Nothing
   # to do here.
   shift 1

   -pedantic)
   # libffi tests -pedantic with -Wall, so drop it also.
   shift 1

   -Werror)
args="$args -WX"
    shift 1
    ;;
    -W*)
    # TODO map specific warnings
    shift 1
    ;;
    -S)
    args="$args -FAa"
    shift 1
    ;;
    -o)
    outdir="$(dirname $2)"
    base="$basename $2|sed 's/\.[^\.[^/]*//g')"
    if [-n "$single"] ; then
        output="-Fo$2"
    else
        output="-Fe$2"
    fi
    if [-n "$assembly"] ; then
        args="$args $output"
    else
        args="$args $output -Fd$outdir/$base -Fp$outdir/$base -Fa$outdir/$base"
    fi
    shift 2
    ;;
    *.*.S)
    src=$1
    assembly="true"
    shift 1
    ;;
    *.*.c)
    args="$args $1"
    shift 1
    ;;
    *)
    # Assume it's an MSVC argument, and pass it through.
    args="$args $1"
    shift 1
    ;;
esac
done

# If -Zi is specified, certain optimizations are implicitly disabled
# by MSVC. Add back those optimizations if this is an optimized build.
# NOTE: These arguments must come after all others.
if [-n "$opt"] ; then
    args="$args -link -OPT:REF -OPT:ICF -INCREMENTAL:NO"
if [ -n "$static_crt" ]; then
  md=-MT
else
  md=-MD
fi

if [ -n "$debug_crt" ]; then
  md="${md}d"
fi

if [ -n "$assembly" ]; then
  if [ -z "$outdir" ]; then
    outdir="."
  fi
  ppsrc="$outdir/$basename $srg|sed 's/.S$/asm/g')"
  echo "$cl -nologo -EP $includes $defines $src > $ppsrc"
  "$cl" -nologo -EP $includes $defines $src > $ppsrc || exit $?
  output="$(echo $output | sed 's%/F[dpa]*/%g')"
  args="-nologo $safeseh $single $output $ppsrc"
  echo "$ml $args"
  eval "\"$ml\" $args"
  result=$?

# required to fix ml64 broken output?
#mv *.* $outdir
else
  args="$md $args"
  echo "$cl $args"
  # Return an error code of 1 if an invalid command line parameter is passed
  # instead of just ignoring it.
  eval "\"$cl\" $args 2>&1 1>&3 \"
    awk '{print $0} /D9002/ {error=1} END{exit error'} >&2) 3>&1"
  result=$?
fi

exit $result
The GNU Texinfo home page is http://www.gnu.org/software/texinfo.

\message{Loading texinfo [version \texinfoversion]:}
% If in a .fmt file, print the version number
% and turn on active characters that we couldn't do earlier because
% they might have appeared in the input file name.
\everyjob{\message{[Texinfo version \texinfoversion]}%
  \catcode`+=\active \catcode`\_\=\active}
\chardef\other=12
% We never want plain's \outer definition of \+ in Texinfo.
% For @tex, we can use \tabalign.
\let\+ = \relax
% Save some plain tex macros whose names we will redefine.
\let\ptexb=\b
\let\ptexbullet=\bullet
\let\ptexc=\c
\let\ptexcomma=,\let\ptexdot=.
\let\ptexdots=\dots
\let\ptexend=\end
\let\ptexequiv=\equiv
\let\ptexexclam=!
\let\ptexfootnote=\footnote
\let\ptexgtr=>
\let\ptexhat=^\let\ptexi=\i
\let\ptexindent=\indent
\let\ptexinsert=\insert
\let\ptexbrace=\{
\let\ptexless=<
\let\ptexnewwrite=\newwrite
\let\ptexnoindent=\noindent
\let\ptexplus=+
\let\ptexraggedright=\raggedright
\let\ptexbrace=\}
\let\ptexslash=\slash
\let\ptexstar=*
\let\ptext=\t
\let\ptextop=\top
{\catcode`\_=\active \global\let\ptexquoteright'}% active in plain's math mode

% If this character appears in an error message or help string, it

\% starts a new line in the output.
newlinechar = `^^J

\% Use TeX 3.0's \inputlineno to get the line number, for better error
\% messages, but if we're using an old version of TeX, don't do anything.
\%
\ifx\inputlineno\thisisundefined
  \let\linenumber = \empty \% Pre-3.0.
\else
  \def\linenumber{l.\the\inputlineno: space}
\fi

\% Set up fixed words for English if not already set.
\ifx\putwordAppendix\undefined \gdef\putwordAppendix{Appendix}\fi
\ifx\putwordChapter\undefined \gdef\putwordChapter{Chapter}\fi
\ifx\putworderror\undefined \gdef\putworderror{error}\fi
\ifx\putwordfile\undefined \gdef\putwordfile{file}\fi
\ifx\putwordlinenumber\undefined \gdef\putwordlinenumber{linenumber}\fi
\ifx\putwordIndexIsEmpty\undefined \gdef\putwordIndexIsEmpty{(Index is empty)}\fi
\ifx\putwordIndexNonexistent\undefined \gdef\putwordIndexNonexistent{(Index is nonexistent)}\fi
\ifx\putwordInfo\undefined \gdef\putwordInfo{Info}\fi
\ifx\putwordInstanceVariableof\undefined \gdef\putwordInstanceVariableof{Instance Variable of}\fi
\ifx\putwordMethodon\undefined \gdef\putwordMethodon{Method on}\fi
\ifx\putwordNoTitle\undefined \gdef\putwordNoTitle{No Title}\fi
\ifx\putwordof\undefined \gdef\putwordof{of}\fi
\ifx\putwordon\undefined \gdef\putwordon{on}\fi
\ifx\putwordpage\undefined \gdef\putwordpage{page}\fi
\ifx\putwordsection\undefined \gdef\putwordsection{section}\fi
\ifx\putwordSection\undefined \gdef\putwordSection{Section}\fi
\ifx\putwordsee\undefined \gdef\putwordsee{see}\fi
\ifx\putwordSee\undefined \gdef\putwordSee{See}\fi
\ifx\putwordShortTOC\undefined \gdef\putwordShortTOC{Short Contents}\fi
\ifx\putwordTOC\undefined \gdef\putwordTOC{Table of Contents}\fi
\%
\ifx\putwordMJan\undefined \gdef\putwordMJan{January}\fi
\ifx\putwordMFeb\undefined \gdef\putwordMFeb{February}\fi
\ifx\putwordMMar\undefined \gdef\putwordMMar{March}\fi
\ifx\putwordMApr\undefined \gdef\putwordMApr{April}\fi
\ifx\putwordMMay\undefined \gdef\putwordMMay{May}\fi
\ifx\putwordMJun\undefined \gdef\putwordMJun{June}\fi
\ifx\putwordMJul\undefined \gdef\putwordMJul{July}\fi
\ifx\putwordMAug\undefined \gdef\putwordMAug{August}\fi
\ifx\putwordMSep\undefined \gdef\putwordMSep{September}\fi
\ifx\putwordMOct\undefined \gdef\putwordMOct{October}\fi
\ifx\putwordMNov\undefined \gdef\putwordMNov{November}\fi
\ifx\putwordMDec\undefined \gdef\putwordMDec{December}\fi
\%
\ifx\putwordDefmac\undefined \gdef\putwordDefmac{Macro}\fi
% Since the category of space is not known, we have to be careful.
\chardef\spacecat = 10
\def\spaceisspace{\catcode`\=\spacecat}

% sometimes characters are active, so we need control sequences.
\chardef\ampChar   = `&
\chardef\colonChar = `:
\chardef\commaChar = `,\chardef\dashChar  = `-\chardef\dotChar   = `.
\chardef\exclamChar= `!
\chardef\hashChar  = `#
\chardef\lquoteChar= ``
\chardef\questChar = `?
\chardef\rquoteChar= `'
\chardef\semiChar  = `;\chardef\slashChar = `\/
\chardef\underChar = `_`

% Ignore a token.
%
\def\gobble#1{ }

% The following is used inside several \edef's.
\def\makecsname#1{\expandafter\noexpand\csname#1\endcsname}

% Hyphenation fixes.
\hyphenation{Flor-i-da Ghost-script Ghost-view Mac-OS Post-Script
   ap-pen-dix bit-map bit-maps
data-base data-bases eshell fall-ing half-way long-est man-u-script
   man-u-scripts mini-buf-fer mini-buf-fers over-view par-a-digm
   par-a-digms rath-er rec-tan-gu-lar ro-bot-ics se-vere-ly set-up spa-ces
   spell-ing spell-ings
   stand-alone strong-est time-stamp time-stamps which-ever white-space
   wide-spread wrap-around
}

% Margin to add to right of even pages, to left of odd pages.
\newdimen\bindingoffset
\newdimen\normaloffset
\newdimen\pagewidth \newdimen\pageheight
% For a final copy, take out the rectangles
% that mark overfull boxes (in case you have decided
% that the text looks ok even though it passes the margin).
% 
def\finalout{\overfullrule=0pt }

% Sometimes it is convenient to have everything in the transcript file
% and nothing on the terminal. We don't just call \tracingall here,
% since that produces some useless output on the terminal. We also make
% some effort to order the tracing commands to reduce output in the log
% file; cf. trace.sty in LaTeX.
% 
def\gloggingall{\begingroup \globaldefs = 1 \loggingall \endgroup}%
def\loggingall{%
\tracingstats2
\tracingpages1
\tracinglostchars2 % 2 gives us more in etex
\tracingparagraphs1
\tracingoutput1
\tracingmacros2
\tracingrestores1
\showboxbreadth\maxdimen \showboxdepth\maxdimen
\if\TeXversion\thisisundefined\else % etex gives us more logging
\tracingscantokens1
\tracingifs1
\tracinggroups1
\tracingnesting2
\tracingassigns1
\fi
\tracingcommands3 % 3 gives us more in etex
\errorcontextlines16
}%
%
% \errormsg{MSG}. Do the index-like expansions on MSG, but if things
% aren't perfect, it's not the end of the world, being an error message,
% after all.
% 
def\errormsg{\begingroup \indexnofonts \doerrormsg}
def\doerrormsg#1{\errmessage{#1}}

def\smalbreak\ifnum\lastpenalty<10000\par\ifdim\lastskip<\smallskipamount
\removelastskip\penalty-50\smallskip\fi\fi

def\medbreak\ifnum\lastpenalty<10000\par\ifdim\lastskip<\medskipamount
\removelastskip\penalty-100\medskip\fi\fi

def\bigbreak\ifnum\lastpenalty<10000\par\ifdim\lastskip<\bigskipamount
\removelastskip\penalty-200\bigskip\fi\fi
% Do @cropmarks to get crop marks.
% \newif\ifcropmarks
\let\cropmarks = \cropmarkstrue
% Dimensions to add cropmarks at corners.
% Added by P. A. MacKay, 12 Nov. 1986
% \newdimen\outerhsize \newdimen\outervsize % set by the paper size routines
\newdimen\cornerlong \cornerlong=1pc
\newdimen\cornerthick \cornerthick=.3pt
\newdimen\topandbottommargin \topandbottommargin=.75in

% Output a mark which sets \thischapter, \thissection and \thiscolor.
% We dump everything together because we only have one kind of mark.
% This works because we only use \botmark / \topmark, not \firstmark.
% A mark contains a subexpression of the \ifcase ... \fi construct.
% \get*marks macros below extract the needed part using \ifcase.
% Another complication is to let the user choose whether \thischapter
% \thissection refers to the chapter (section) in effect at the top
% of a page, or that at the bottom of a page. The solution is
% described on page 260 of The \TeX\book. It involves outputting two
% marks for the sectioning macros, one before the section break, and
% one after. I won’t pretend I can describe this better than DEK...
\def\domark{\toks0=\expandafter{\lastchapterdefs}\%\toks2=\expandafter{\lastsectiondefs}\%\toks4=\expandafter{\prevchapterdefs}\%\toks6=\expandafter{\prevsectiondefs}\%\toks8=\expandafter{\lastcolordefs}\%\mark{\the\toks0 \the\toks2
\noexpand\or \the\toks4 \the\toks6
\noexpand\else \the\toks8
}\}%}
% \topmark doesn’t work for the very first chapter (after the title
% page or the contents), so we use \firstmark there -- this gets us
% the mark with the chapter defs, unless the user sneaks in, e.g.,
% @setcolor (or @url, or @link, etc.) between @contents and the very
% first @chapter.
\def\gettopheadingmarks{%\ifcase0\topmark\fi\ifx\thischapter\empty \ifcase0\firstmark\fi \fi
% First remove any @comment, then any @c comment.
def\argremovecomment#1\comment#2\ArgTerm{\argremovec #1\c\ArgTerm}
def\argremovec#1\c#2\ArgTerm{\argcheckspaces#1\^^M\ArgTerm}

% Each occurrence of `\^^M' or `\<space>\^^M' is replaced by a single space.
%
% \argremovec might leave us with trailing space, e.g.,
% \% @end itemize @c foo
% This space token undergoes the same procedure and is eventually removed
% by \finishparsearg.
%
def\argcheckspaces#1\^^M{\argcheckspacesX#1\^^M \^^M}
def\argcheckspacesX#1 \^^M\ArgTerm{\argcheckspacesY#1\^^M\ArgTerm}
def\argcheckspacesY#1\^^M#2\^^M#3\ArgTerm{\def\temp{#3}\if\temp\empty
% Do not use \next, perhaps the caller of \parsearg uses it; reuse \temp:
% \let\temp\finishparearg
% else
% \let\temp\argcheckspaces
% fi
% Put the space token in:
% \temp#1 #3\ArgTerm}

% If a _delimited_ argument is enclosed in braces, they get stripped; so
% to get _exactly_ the rest of the line, we had to prevent such situation.
% We prepended an 'empty token at the very beginning and we expand it now,
% just before passing the control to \argtorun.
% (Similarly, we have to think about #3 of \argcheckspacesY above: it is
% either the null string, or it ends with \^^M---thus there is no danger
% that a pair of braces would be stripped.
%
% But first, we have to remove the trailing space token.
%
def\finishparearg#1 \ArgTerm{\expandafter\argtorun\expandafter[#1]}

% \parseargdef\foo{...}
% is roughly equivalent to
% \def\foo{\parsearg\Xfoo}
% \def\Xfoo#1{...}
%
% Actually, I use \csname\string\foo\endcsname, ie. \foo, as it is my
% favourite TeX trick. --kasal, 16nov03

\def\parseargdef#1{
\expandafter \doparseargdef \csname #1\endcsname #1\%
}
\def\doparseargdef#1#2{% 
\def#2{\parsearg#1}% 
\def#1##1%
}

% Several utility definitions with active space:
{
\obeyspaces
\gdef\obeyedspace{ }
%
% Make each space character in the input produce a normal interword
% space in the output. Don't allow a line break at this space, as this
% is used only in environments like @example, where each line of input
% should produce a line of output anyway.
%
\gdef\sepspaces{\obeyspaces\let =\tie}
%
% If an index command is used in an @example environment, any spaces
% therein should become regular spaces in the raw index file, not the
% expansion of \tie (\leavevmode \penalty \@M \ ).
\gdef\unsepspaces{\let =\space}
}

\def\flushcr{\ifx\par\lisppar \def\next##1{}\else \let\next=\relax \fi \next}
%
% Define the framework for environments in texinfo.tex. It's used like this:
%
% \envdef\foo{...}
% \def\Efoo{...}
%
% It's the responsibility of \envdef to insert \begingroup before the
% actual body; @end closes the group after calling \Efoo. \envdef also
% defines \thisenv, so the current environment is known; @end checks
% whether the environment name matches. The \checkenv macro can also be
% used to check whether the current environment is the one expected.
%
% Non-false conditionals (@iftex, @ifset) don't fit into this, so they
% are not treated as environments; they don't open a group. (The
% implementation of @end takes care not to call \endgroup in this
% special case.)
%
% At run-time, environments start with this:
\def\startenvironment#1{\begingroup\def\thisenv{#1}}
% initialize
\let\thisenv\empty

% ... but they get defined via ``\envdef\foo{...}'':
\long\def\envdef#1#2\{\def#1{\startenvironment#1#2}}
\def\envparseargdef#1#2\{\parseargdef#1{\startenvironment#1#2}}

% Check whether we're in the right environment:
\def\checkenv#1\{%
  \def\temp{#1}\%
  \ifx\thisenv\temp
  \else
    \badenverr
  \fi
%
%
% Environment mismatch, #1 expected:
\def\badenverr\{%
  \errhelp = \EMsimple
  \errmessage{This command can appear only \inenvironment\temp,
    not \inenvironment\thisenv}%
%
\def\inenvironment#1\{%
  \ifx#1\empty
    outside of any environment%
  \else
    in environment \expandafter\string#1%
  \fi
%
%
% @end foo executes the definition of \Efoo.
% But first, it executes a specialized version of \checkenv
%
\parseargdef\end\{%
  \if 1\csname iscond.#1\endcsname
    \else
      \badenverr\%
    \fi
%
%
\newhelp\EMsimple{Press RETURN to continue.}

% Be sure we're in horizontal mode when doing a tie, since we make space
% equivalent to this in @example-like environments. Otherwise, a space
% at the beginning of a line will start with \penalty -- and
% since \penalty is valid in vertical mode, we'd end up putting the
% penalty on the vertical list instead of in the new paragraph.
{\catcode`@ = 11
% Avoid using \@M directly, because that causes trouble
% if the definition is written into an index file.
\global\let\tiepenalty = \@M
\gdef\tie{\leavevmode\penalty\tiepenalty\ }
}
% @: forces normal size whitespace following.
\def\{:\spacefactor=1000\ }
% @* forces a line break.
\def\*{\unskip\hfil\break\hbox{}}\ignorespaces
% @/ allows a line break.
\let\=/\allowbreak
% @. is an end-of-sentence period.
\def\.{.\spacefactor=\endofsentencespacefactor}\space}
% @! is an end-of-sentence bang.
\def\!{!\spacefactor=\endofsentencespacefactor}\space}
% @? is an end-of-sentence query.
\def\?{?\spacefactor=\endofsentencespacefactor}\space}
% @frenchspacing on|off  says whether to put extra space after punctuation.
%\def\onword{on}
%\def\offword{off}
%\parseargdef\frenchspacing{%
%\def\temp{#1}%
%\ifx\temp\onword \plainfrenchspacing
%\else\ifx\temp\offword \plainnonfrenchspacing
%\else
%\errhelp = \EMsimple
%\errmessage{Unknown @frenchspacing option `\temp', must be on|off}%
%\fi
%}
%
% @w prevents a word break. Without the \leavevmode, @w at the
% beginning of a paragraph, when TeX is still in vertical mode, would
% produce a whole line of output instead of starting the paragraph.
%\def\w#1{\leavevmode\hbox{#1}}
% @group ... @end group forces ... to be all on one page, by enclosing
\% it in a TeX vbox. We use \texttt{\vtop} instead of \texttt{\vbox} to construct the box \%
to keep its height that of a normal line. According to the rules for \%
\texttt{\topskip} (p.114 of the TeXbook), the glue inserted is \%
\max(\texttt{\topskip} - \texttt{\ht (first item)}, 0). If that height is large, \%
therefore, no glue is inserted, and the space between the headline and \%
the text is small, which looks bad. \%
\%
\% Another complication is that the group might be very large. This can \%
\% cause the glue on the previous page to be unduly stretched, because it \%
\% does not have much material. In this case, it's better to add an \%
\% explicit \texttt{\vfill} so that the extra space is at the bottom. The \%
\% threshold for doing this is if the group is more than \texttt{\vfilllimit} \%
\% percent of a page (\texttt{\vfilllimit} can be changed inside of @tex). \%
\%
\newbox\groupbox \def\vfilllimit{0.7} \%
\%
\envdef\group[\% \difnum\catcode\^^M=\active \else \errhelp = \groupinvalidhelp \errmessage[@group invalid in context where filling is enabled] \% \fi \startsavinginserts \%
\setbox\groupbox = \vtop\bgroup % Do @comment since we are called inside an environment such as \%
% @example, where each end-of-line in the input causes an \%
% end-of-line in the output. We don't want the end-of-line after \%
% the `\@group' to put extra space in the output. Since @group \%
% should appear on a line by itself (according to the Texinfo \%
% manual), we don't worry about eating any user text. \%
%\comment
\}% \%
\%
\% The \texttt{\vtop} produces a box with normal height and large depth; thus, TeX puts \%\
\% \texttt{\baselineskip} glue before it, and (when the next line of text is done) \%
\% \texttt{\lineskip} glue after it. Thus, space below is not quite equal to space \%
\% above. But it's pretty close. \%
\def\Egroup[\% \%
% To get correct interline space between the last line of the group \%
% and the first line afterwards, we have to propagate \texttt{\prevdepth}. \%
\endgraf% Not \texttt{\par}, as it may have been set to \texttt{\lisppar}. \%
\global\dimen1 = \prevdepth \%
\egroup % End the \vtop. \%
\% \texttt{\dimen0} is the vertical size of the group's box. \%
\dimen0 = \ht\groupbox \advance\dimen0 by \dp\groupbox \%
\% \texttt{\dimen2} is how much space is left on the page (more or less). \%
\dimen2 = \pageheight \advance\dimen2 by \pagetotal
% if the group doesn't fit on the current page, and it's a big big
% group, force a page break.
\ifdim \dimen0 > \dimen2
  \ifdim \pagetotal < \vfilllimit\pageheight
    \page
  \fi
\fi
\box\groupbox
\prevdepth = \dimen1
\checkinserts
}
%
% TeX puts in an \escapechar (i.e., `@') at the beginning of the help
% message, so this ends up printing `@group can only ...'.
%
\newhelp\groupinvalidhelp{%
group can only be used in environments such as @example,^^J%
where each line of input produces a line of output.}

%
% @need space-in-mils
% forces a page break if there is not space-in-mils remaining.

\newdimen\mil \mil=0.001in

\parseargdef\need{%
% Ensure vertical mode, so we don't make a big box in the middle of a
% paragraph.
\par
%
% If the @need value is less than one line space, it's useless.
\dimen0 = #1\mil
\dimen2 = \ht\strutbox
\advance\dimen2 by \dp\strutbox
\ifdim\dimen0 > \dimen2
  %
  % Do a \strut just to make the height of this box be normal, so the
  % normal leading is inserted relative to the preceding line.
  % And a page break here is fine.
  \vtop to #1\mil{\strut\vfil}%
  %
  % TeX does not even consider page breaks if a penalty added to the
  % main vertical list is 10000 or more. But in order to see if the
  % empty box we just added fits on the page, we must make it consider
  % page breaks. On the other hand, we don't want to actually break the
  % page after the empty box. So we use a penalty of 9999.
  %
  % There is an extremely small chance that TeX will actually break the
  % page at this \penalty, if there are no other feasible breakpoints in
(If the user is using lots of big \texttt{\@group} commands, which
almost-but-not-quite fill up a page, \TeX{} will have a hard time doing
good page breaking, for example.) However, I could not construct an
example where a page broke at this \texttt{\penalty}; if it happens in a real
document, then we can reconsider our strategy.

\penalty9999

% Back up by the size of the box, whether we did a page break or not.
\kern -\#1\text{\mil}

% Do not allow a page break right after this kern.
\nobreak
\fi
}

% \texttt{\@br} forces paragraph break (and is undocumented).

\let\br = \par

% \texttt{\@page} forces the start of a new page.
%
\def\page{\par\vfill\supereject}

% \texttt{\@exdent} text....
% outputs text on separate line in roman font, starting at standard page margin

% This records the amount of indent in the innermost environment.
% That's how much \texttt{\exdent} should take out.
\newskip\exdentamount

% This defn is used inside fill environments such as \texttt{\defun}.
\parseargdef\exdent{\hfil\break\hbox{\kern -\exdentamount{\rm#1}}\hfil\break}

% This defn is used inside nofill environments such as \texttt{\example}.
\parseargdef\nofillexdent{{\advance \leftskip by -\exdentamount
\leftline{\hskip\leftskip{\rm#1}}}}

% \texttt{\@inmargin{WHICH}{TEXT}} puts TEXT in the WHICH margin next to the current
% paragraph. For more general purposes, use the \texttt{\margin} insertion
% class. WHICH is `l' or `r'. Not documented, written for gawk manual.
%
\newskip\inmarginspacing \inmarginspacing=1cm
\def\strutdepth{\dp\strutbox}

% \texttt{\doinmargin{WHICH}1\#2} \texttt{\strutvadjust}\% 
\nobreak
\kern-\strutdepth
\vtop to \strutdepth\%

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1209}
% Append this vertical mode material after the current line in the output.
\vadjust{%
% We want to insert a rule with the height and depth of the current
% leading; that is exactly what \strutbox is supposed to record.
\vskip-baselineskip
%
% \vadjust-items are inserted at the left edge of the type. So
% the \llap here moves out into the left-hand margin.
\llap{%
%
% For a thicker or thinner bar, change the `1pt'.
\vrule heightbaselineskip width1pt
%
% This is the space between the bar and the text.
\hskip 12pt
}
%
%
}% @include FILE -- \input text of FILE.
%
% \def\include{\parseargusing\filenamecatcodes\includezzz}
% \def\includezzz#1{%
  \pushthisfilestack
  \def\thisfile{#1}%
  {%
    \makevalueexpandable % we want to expand any \@value in FILE.
    \turnoffactive % and allow special characters in the expansion
    \indexnofonts % Allow `@@' and other weird things in file names.
    \wlog{texinfo.tex: doing \include of \#1^^J}%
    \edef\temp{\noexpand\input \#1 }%
    %
    % This trickery is to read FILE outside of a group, in case it makes
    % definitions, etc.
    \expandafter
  }\temp
  \popthisfilestack
%
% \def\filenamecatcodes{%
  \catcode`\\=\other
  \catcode`~\=\other
  \catcode`^\=\other
  \catcode`_\=\other
  \catcode`|\=\other
  \catcode`\<\=\other
  \catcode`\>=\other
  \catcode`\+=\other

\catcode`\-=\other
\catcode`\`=\other
\catcode`\'=\other
}
\def\pushthisfilestack{%
\expandafter\pushthisfilestackX\popthisfilestack\StackTerm
}
\def\pushthisfilestackX{%
\expandafter\pushthisfilestackY\thisfile\StackTerm
}
\def\pushthisfilestackY #1\StackTerm #2\StackTerm {%
\gdef\popthisfilestack\gdef\thisfile[#1]\gdef\popthisfilestack[#2]}
%
\def\popthisfilestack\errthisfilestackempty
\def\errthisfilestackempty\errmessage{Internal error:
the stack of filenames is empty.}
%
\def\thisfile{}
%
% @center line
% outputs that line, centered.
%
\parseargdef\center{%
\ifhmode
\let\centersub\centerH
\else
\let\centersub\centerV
\fi
\centersub\hfil\ignorespaces#1\unskip\hfil\% 
\let\centersub\relax % don't let the definition persist, just in case
}
\def\centerH#1{{% 
\hfil\break 
\advance\hsize by -\leftskip
\advance\hsize by -\rightskip
\line#1\%
\break 
} }
%
\newcount\centerpenalty
\def\centerV#1{% 
% The idea here is the same as in \startdefun, \cartouche, etc.: if 
% @center is the first thing after a section heading, we need to wipe 
% out the negative parskip inserted by \sectionheading, but still 
% prevent a page break here. 
\centerpenalty=\lastpenalty
\else
  \ifx\temp\noneword
    \lispnarrowing = 0pt
  \else
    \lispnarrowing = #1em
  \fi
\fi
} \\
% @firstparagraphindent WORD
% If WORD is `none', then suppress indentation of the first paragraph
% after a section heading. If WORD is `insert', then do indent at such
% paragraphs.
% % The paragraph indentation is suppressed or not by calling
% \suppressionfirstparagraphindent, which the sectioning commands do.
% % We switch the definition of this back and forth according to WORD.
% % By default, we suppress indentation.
% % \def\suppressionfirstparagraphindent{\dosuppressionfirstparagraphindent}
% \def\insertword{insert}
% % \parsearg\def\firstparagraphindent{%
% \def\temp{#1}%
% \ifx\temp\noneword
%  \let\suppressionfirstparagraphindent = \dosuppressionfirstparagraphindent
% \else\ifx\temp\insertword
%  \let\suppressionfirstparagraphindent = \relax
% \else
%    \errhelp = \EMsimple
%    \errmessage{Unknown @firstparagraphindent option `\temp'}%
%  \fi\fi
% } \\
% % Here is how we actually suppress indentation. Redefine \everypar to
% % \kern backwards by \parindent, and then reset itself to empty.
% % % We also make \indent itself not actually do anything until the next
% % paragraph.
% % % \gdef\dosuppressionfirstparagraphindent{%
% \gdef\indent{%
%   \restorefirstparagraphindent
% \indent
% }%
% \gdef\noindent{%
% \restorefirstparagraphindent
% \noindent

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% @bye.
\outer\def\bye{\pagealignmacro\tracingstats=1\ptexend}

\message{pdf,}
% adobe `portable' document format
\newcount\tempnum
\newcount\lnkcount
\newtoks\filename
\newcount\filenamelength
\newcount\pgn
\newtoks\toksA
\newtoks\toksB
\newtoks\toksC
\newtoks\toksD
\newbox\boxA
\newcommand\countA
\newif\ifpdf
\newif\ifpdfmakepagedest

% when pdftex is run in dvi mode, \pdfoutput is defined (so \pdfoutput=1
% can be set). So we test for \relax and 0 as well as being undefined.
\ifdefmacro\pdfoutput\thisisundefined
  \else
  \ifdefmacro\pdfoutput\relax
    \else
      \ifdef\pdfoutput
        \else
          \pdftrue
        \fi
      \fi
  \fi
\fi

% PDF uses PostScript string constants for the names of xref targets,
% for display in the outlines, and in other places. Thus, we have to
% double any backslashes. Otherwise, a name like "\node" will be
% interpreted as a newline (\n), followed by o, d, e. Not good.
%
% See http://www.ntg.nl/pipermail/ntg-pdftex/2004-July/000654.html and
% related messages. The final outcome is that it is up to the TeX user
% to double the backslashes and otherwise make the string valid, so
% that's what we do. pdftex 1.30.0 (ca.2005) introduced a primitive to
% do this reliably, so we use it.

% #1 is a control sequence in which to do the replacements,
% which we \xdef.
\def\txiescapepdf#1{% 
    \ifpdfescapestring\thisisundefined
    % No primitive available; should we give a warning or log?
    % Many times it won't matter.
    \else
    % The expandable \pdfescapestring primitive escapes parentheses,
    % backslashes, and other special chars.
    \def#1{\pdfescapestring{#1}}%
    \fi
}

\newhelp\nopdfimagehelp{Texinfo supports .png, .jpg, .jpeg, and .pdf images
with PDF output, and none of those formats could be found. (.eps cannot
be supported due to the design of the PDF format; use regular TeX (DVI
output) for that.)}

\ifpdf
%
% Color manipulation macros based on pdfcolor.tex,
% except using rgb instead of cmyk; the latter is said to render as a
% very dark gray on-screen and a very dark halftone in print, instead
% of actual black.
\def\rgbDarkRed{0.50 0.09 0.12}
\def\rgbBlack{0 0 0}
%
% k sets the color for filling (usual text, etc.);
% K sets the color for stroking (thin rules, e.g., normal _'s).
\def\pdffsetcolor#1{\pdfliteral{#1 rg #1 RG}}
%
% Set color, and create a mark which defines \thiscolor accordingly,
% so that \makeheadline knows which color to restore.
\def\fsetcolor#1{%
    \edef\thiscolordefs{\gdef\noexpand\thiscolor{#1}}%
    \domark
    \pdffsetcolor{#1}%
}
%
\def\maincolor{\rgbBlack}
\pdffsetcolor{\maincolor}
\edef\thiscolor{\maincolor}
\def\lastcolordefs{ }
\fi
\else \gdef\pdfimgext{png}\fi
\else \gdef\pdfimgext{PDF}\fi
\else \gdef\pdfimgext{pdf}\fi
\closein 1
\endgroup
%
% without \immediate, ancient pdftex seg faults when the same image is
% included twice. (Version 3.14159-pre-1.0-unofficial-20010704.)
\ifnum\pdftexversion < 14
\immediate\pdfimage
\else
\immediate\pdfximage
\fi
\ifdim \wd0 >0pt width \pdfimagewidth \fi
\ifdim \wd2 >0pt height \pdfimageheight \fi
\ifnum\pdftexversion<13
#1.\pdfimgext
\else
{#1.\pdfimgext}\fi
\ifnum\pdftexversion < 14 \else
\pdfrefximage \pdflastximage
\fi}
%
\def\pdfmkdest#1{{%
% We have to set dummies so commands such as @code, and characters
% such as \, aren't expanded when present in a section title.
\indexnofonts
\turnoffactive
\makevalueexpandable
\def\pdfdestname{#1}%
\txiescapepdf\pdfdestname
\safewhatsit{\pdfdest name{\pdfdestname} xyz}%
}}%
% used to mark target names; must be expandable.
\def\pdfmkpgn#1{#1}%
%
% by default, use a color that is dark enough to print on paper as
% nearly black, but still distinguishable for online viewing.
\def\urlcolor{\rgbDarkRed}
\def\linkcolor{\rgbDarkRed}
\def\endlink{\setcolor{\maincolor}\pdfendlink}
%
% Adding outlines to PDF; macros for calculating structure of outlines
% come from Petr Olsak
\def\expnumber#1{\expandafter\ifx\csname#1\endcsname\relax0%
 \else \csname#1\endcsname \fi}
\def\advancenumber#1{\tempnum=\expnumber{#1}\relax
 \advance\tempnum by 1
 \expandafter\xdef\csname#1\endcsname{\the\tempnum})}
%
% #1 is the section text, which is what will be displayed in the
% outline by the pdf viewer.  #2 is the pdf expression for the number
% of subentries (or empty, for subsubsections).  #3 is the node text,
% which might be empty if this toc entry had no corresponding node.
% #4 is the page number
%
\def\dopdfoutline#1#2#3#4{%
 % Generate a link to the node text if that exists; else, use the
 % page number.  We could generate a destination for the section
 % text in the case where a section has no node, but it doesn't
 % seem worth the trouble, since most documents are normally structured.
 \def\pdfoutlinetext{#1}%
 \def\pdfoutlinedest{#3}%
 \ifx\pdfoutlinetext\empty
 \def\pdfoutlinetext{#4}%
 \else
 \txiescapepdf\pdfoutlinetext
 \fi
%
% Also escape PDF chars in the display string.
 \edef\pdfoutlinetext{\expnumber{#1}}%
 \txiescapepdf\pdfoutlinetext
%
\pdfoutline goto name{\pdfmkpgn{\pdfoutlinedest}}#2{\pdfoutlinetext}%
%
\def\pdfmakeoutlines{%
 \beginingroup
 % Read toc silently, to get counts of subentries for \pdfoutline.
 \def\partentry##1##2##3##4{}% ignore parts in the outlines
 \def\numchapentry##1##2##3##4{\advancenumber{chap\thischapnum}}%
 \def\numsecentry##1##2##3##4{\advancenumber{#1\thisseccnum}}%
 \def\thisseccnum{0}%
 \def\thissubseccnum{0}%
 \def\numsecentry{##1##2##3##4}%
 \def\thissecentery{##1##2##3##4}%
 %
 %
\endgroup
}
\setupdatafile
% We can have normal brace characters in the PDF outlines, unlike
% Texinfo index files. So set that up.
def\{ {lbracecharliteral}\%
def\} {rbracecharliteral}\%
catcode`\={active} \otherbackslash
\input \tocreadfilename
\endgroup
}
catcode`[=1 \catcode`]=2
catcode`{=other \catcode`}=other
def{lbracecharliteral}[[]%
def{rbracecharliteral}[]%
]
catcode{=1 \catcode`=2 
catcode`{=other 
catcode`}=other
\gdef{lbracecharliteral}[{[%
\gdef{rbracecharliteral}[]%
]
%
def{skipspaces}#1{\def{}{#1}\def{D}{|}\%\ifx{}{}\let{nextsp}{relax}\else\let{nextsp}{\skipspaces}\addtokens{\filename}{\PP}\%\advance{filenamelength} by 1\fi\nextsp}
def{getfilename}#1{\filenamelength=0% If we don't expand the argument now, \skipspaces will get% snagged on things like "@value{foo}".\def{temp}{#1}\%\expandafter{\skipspaces}{temp}{relax}
}\ifnum{pdftexversion} < 14\let{startlink}{\pdfannotlink}\else\let{startlink}{\pdfstartlink}\fi% make a live url in pdf output.
def{pdfurl}#1{\begingroup% it seems we really need yet another set of dummies; have not% tried to figure out what each command should do in the context% of @url. for now, just make @/ a no-op, that's the only one% people have actually reported a problem with.%\normalturnoffactive\def{@}{@}\%\let{=}={empty}\makevalueexpandable% do we want to go so far as to use \indexnofonts instead of just% special-casing \var here?
\def\var##1{##1}\
\leavevmode\setcolor{\urlcolor}\
\startlink attr{/Border [0 0 0]}\
user{/Subtype /Link /A << /S /URI /URI (#1) >>}\
\endgroup
\def\pdfgettoks#1.{\setbox\boxA=\hbox{\toksA={#1.}\toksB={}}\maketoks}
\def\addtokens#1#2{\edef\addtoks{\noexpand#1={\the#1#2}}\addtoks}
\def\adn#1{\addtokens{\toksC}{#1}\global\countA=1\let\next=\maketoks}
\def\poptoks#1#2|ENDTOKS|{\let\first=#1\toksD={#1}\toksA={#2}}
\def\maketoks{\expandafter\poptoks\the\toksA|ENDTOKS|\relax\
\ifx\first0=\countA\else\makelink\fi\
\ifx\first.\let\next=\done\else\let\next=\maketoks\fi\
\ifx\first\adn1\else\ifx\first\adn2\else\ifx\first\adn3\else\ifx\first\adn4\else\ifx\first\adn5\else\ifx\first\adn6\else\ifx\first\adn7\else\ifx\first\adn8\else\ifx\first\adn9\else\ifnum0=\countA\else\makelink\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\
\let\next=\makelink\
\ifx\first,\addtokens{\toksB}{\space}\fi\fi\fi\fi\fi\fi\fi\
\let\next=\makelink\
\addtokens{\toksB}{\noexpand\pdflink{\the\toksC}}\toksC={}\global\countA=0
\def\pdflink#1{\startlink attr{/Border [0 0 0]} goto name{\pdfmkpgn{#1}}}\setcolor{\linkcolor}#1\endlink\def\done{\edef\st{\global\noexpand\toksA={\the\toksB}}\st}
\else\% non-pdf mode\let\pdfmkdest=\gobble\let\pdfurl=\gobble\let\endlink=\relax\let\setcolor=\gobble\let\pdfsetcolor=\gobble\let\pdfmakeoutlines=\relax\fi \relax
\message{fonts,}\% Change the current font style to #1, remembering it in \curfontstyle.\% For now, we do not accumulate font styles: @@b{@@i{foo}} prints foo in \% italics, not bold italics.\%
\def\setfontstyle#1{\% not as a control sequence, because we are \edef\d.
\csname ten#1\endcsname \% change the current font
}

% Select #1 fonts with the current style.
\def\selectfonts#1{\csname #1\endcsname \csname\curfontstyle\endcsname}

\def\rm{\fam=0 \setfontstyle{rm}}
\def\it{\fam=\itfam \setfontstyle{it}}
\def\sl{\fam=\slfam \setfontstyle{sl}}
\def\bf{\fam=\bffam \setfontstyle{bf}}\def\bfstylename{bf}
\def\tt{\fam=\ttfam \setfontstyle{tt}}

% Unfortunately, we have to override this for titles and the like, since
% in those cases "rm" is bold. Sigh.
\def\rmisbold{\rm\def\curfontstyle{bf}}

% Texinfo sort of supports the sans serif font style, which plain TeX does not.
% So we set up a \sf.
\newfam\sffam
\def\sf{\fam=\sffam \setfontstyle{sf}}
\let\li = \sf % Sometimes we call it \li, not \sf.

% We don’t need math for this font style.
\def\ttsl{\setfontstyle{ttsl}}

% Set the baselineskip to #1, and the lineskip and strut size
% correspondingly. There is no deep meaning behind these magic numbers
% used as factors; they just match (closely enough) what Knuth defined.
% \def\lineskipfactor{.08333}
\def\strutheightpercent{.70833}
\def\strutdepthpercent{.29167}

% can get a sort of poor man's double spacing by redefining this.
\def\baselinefactor{1}

% \newdimen\textleading
\def\setleading#1{\%}
\dimen0 = #1\relax
\normalbaselineskip = \baselinestretch\dimen0
\normallineskip = \lineskipfactor\normalbaselineskip
\normalbaselines
\setbox\strutbox =\hbox{\%}
\vrule width\opt height\strutheightpercent\baselineskip
depth \strut \depth \percent \baselineskip
\]
%
%
% PDF CMaps. See also LaTeX's t1 cmap.
%
% do nothing with this by default.
\expandafter\let\csname cmapOT1\endcsname\gobble
\expandafter\let\csname cmapOT1IT\endcsname\gobble
\expandafter\let\csname cmapOT1TT\endcsname\gobble
%
% if we are producing pdf, and we have \pdffontattr, then define cmaps.
% (pdffontattr was introduced many years ago, but people still run
% older pdftex's; it's easy to conditionalize, so we do.)
\fpdf\fixx\pdffontattr\thisisundefined \else
\begingroup
\catcode\^^M=\active \def\^^M{\^^J}% Output line endings as the \^^J char.
\catcode\%=12 \immediate\pdfobj stream {!PS-Adobe-3.0 Resource-CMap
%%DocumentNeededResources:ProcSet (CIDInit)
%%IncludeResource: ProcSet (CIDInit)
%%BeginResource: CMap (TeX-OT1-0)
%%Title: (TeX-OT1-0 TeX OT1 0)
%%Version: 1.000
%%EndComments
/CIDInit /ProcSet findresource begin
12 dict begin
biginmap
/CIDSystemInfo
<< /Registry (TeX) /Ordering (OT1) /Supplement 0 >>
def
/CMapName /TeX-OT1-0 def
/CMapType 2 def
1 begincodespacerange
<00> <7F>
decodespacerange
8 beginbfrange
<00> <01> <0393>
<09> <0A> <03A8>
<23> <26> <0023>
<28> <3B> <0028>
<3F> <5B> <003F>
<5D> <5E> <005D>
<61> <7A> <0061>
<7B> <7C> <2013>
endbfrange
40 beginbfchar

Open Source Used in Cisco D9800 Network Transport Receiver Version 3.75
1225
Open Source Used In Cisco D9800 Network Transport Receiver Version 3.75

endbfchar
endcmap
CMapName currentdict /CMap defineresource pop
end
end
%%EndResource
%%EOF

\expandafter\edef\csname cmapOT1TT\endcsname#1{
\pdffontattr#1{/ToUnicode \the\pdflastobj space 0 R}%
}%
%
% \cmapOT1TT
\begingroup
\catcode\^^M=\active \def\^^M[\^{}^{}J]% Output line endings as the ^^J char.
\catcode\%=12 \immediate\pdfobj stream {%!PS-Adobe-3.0 Resource-CMap

<0E> <006600660069>
<0F> <00660066006C>
<10> <0131>
<11> <0237>
<12> <0060>
<13> <00B4>
<14> <02C7>
<15> <02D8>
<16> <00AF>
<17> <02DA>
<18> <00B8>
<19> <00DF>
<1A> <00E6>
<1B> <0153>
<1C> <00F8>
<1D> <00C6>
<1E> <0152>
<1F> <00D8>
<20> <0152>
<21> <0021>
<22> <0201D>
<23> <0023>
<24> <00A3>
<25> <02019>
<26> <00A1>
<27> <003D>
<28> <00BF>
<29> <0201C>
<2A> <02D9>
<2B> <02018>
<2C> <02DD>
<2D> <007E>
<2E> <00A8>
% Support font families that don't use the same naming scheme as CM.
def\rmshape{r}
def\rmbshape{bx} % where the normal face is bold
def\bfshape{b}
def\bxsshape{bx}
def\ttshape{tt}
def\ttbshape{tt}
def\ttsslshape{tt}
def\itshape{ti}
def\itbshape{bxti}
def\slshape{sl}
def\sldshape{bxsl}
def\sfshape{ss}
def\sfldshape{ss}
def\scshape{csc}
def\scbshape{csc}
def\scbshape{csc}

def\textfontsizexi{%
% Text fonts (11.2pt, magstep1).
def\textnominalsize{11pt}
def\mainmagstep{\magstephalf}
\setfont	extrm\rmshape{10}{\mainmagstep}{OT1}
\setfont\texttt\ttshape{10}{\mainmagstep}{OT1TT}
\setfont\textbf\bfshape{10}{\mainmagstep}{OT1}
\setfont\textit\itshape{10}{\mainmagstep}{OT1IT}
\setfont\textsl\slshape{10}{\mainmagstep}{OT1}
\setfont\textsf\sfshape{10}{\mainmagstep}{OT1}
\setfont\textttsl\ttsslshape{10}{\mainmagstep}{OT1TT}
\font\texti=cmmi10 scaled \mainmagstep
\font\textsy=cmsy10 scaled \mainmagstep
\textecsize{1095}
%
% A few fonts for @defun names and args.
\setfont\defbf\bfshape{10}{\magstep1}{OT1}
\setfont\deftt\ttshape{10}{\magstep1}{OT1TT}
\setfont\defit\itshape{10}{\magstep1}{OT1IT}
\setfont\defssl\slshape{10}{\magstep1}{OT1}
\setfont\defsf\sfshape{10}{\magstep1}{OT1}
\setfont\defttssl\ttsslshape{10}{\magstep1}{OT1TT}
\def\df[\let\tntt=\deftt \let\tenbf = \defbf \let\tenssl=\defttssl \bf]
%
% Fonts for indices, footnotes, small examples (9pt).
def\smallnominalsize{9pt}
def\smallrm\rmshape{9}{1000}{OT1}
def\smallit\itshape{9}{1000}{OT1TT}
def\smallsl\slshape{9}{1000}{OT1}
def\smallbf\bfshape{9}{900}{OT1}
% Definitions to make the main text be 10pt Computer Modern, with
% section, chapter, etc., sizes following suit. This is for the GNU
% Press printing of the Emacs 22 manual. Maybe other manuals in the
% future. Used with @smallbook, which sets the leading to 12pt.
%
def
definetextfontsizex{%
% Text fonts (10pt).
def\textnominalsize{10pt}
def\mainmagstep{1000}
def\textrm
\def\texttt
\def\textbf
\def\textit
\def\textsl
\def\textsf
\def\textsc
\def\textttsl
\font\texti=cmmi10 scaled \mainmagstep
\font\textsy=cmsy10 scaled \mainmagstep
\def\textecsize{1000}
% A few fonts for @defun names and args.
def\defbf
\def\deftt
\def\defttsl
\def\df{
\let\tentt=\deftt \let\tenbf = \defbf \let\tentsl=\defttsl \bf}
def\smallnominalsize{9pt}
def\smallrm
\def\smalltt
\def\smallbf
\def\smallit
\def\smallsl
\def\smallsf
\def\smallsc
\def\smallttsl
\font\smalli=cmmi9
\font\smallsy=cmsy9
\def\smallecsize{0900}
def\smallernominalsize{8pt}
def\smallerrm
\def\smallerbf
\def\smallerit
\def\smallercsf
\def\smallercsl
\def\smallersttsl
\font\smalli=cmmi9
\font\smallsy=cmsy9
\def\smallecsize{0900}
\font\seci=cmmi12
\font\secsy=cmsy10 scaled \magstep1
\def\sececsize{1200}

% Subsection fonts (10pt).
\def\ssecnominalsize{10pt}
\setfont\ssecrm\rmbshape{10}{1000}{OT1}
\setfont\ssecit\itbshape{10}{1000}{OT1IT}
\setfont\ssecsl\slbshape{10}{1000}{OT1}
\setfont\ssectt\ttbshape{10}{1000}{OT1TT}
\setfont\ssecttsl\ttslshape{10}{1000}{OT1TT}
\let\ssecbf\ssecrm
\setfont\ssecsf\sfbshape{10}{1000}{OT1}
\font\sseci=cmmi10
\font\secsy=cmsy10
\def\seceucesize{1000}

% Reduced fonts for \acro in text (9pt).
\def\reducednominalsize{9pt}
\setfont\reducedrm\rmshape{9}{1000}{OT1}
\setfont\reducedtt\ttshape{9}{1000}{OT1TT}
\setfont\reducedbf\bfshape{10}{900}{OT1}
\setfont\reducedit\itshape{9}{1000}{OT1IT}
\setfont\reducedsl\slshape{9}{1000}{OT1}
\setfont\reducedsf\sfshape{9}{1000}{OT1}
\setfont\reducedsc\scshape{10}{900}{OT1}
\setfont\reducedttsl\ttslshape{10}{900}{OT1TT}
\def\reducedi=cmmi9
\def\reducedsy=cmsy9
\def\reducedecesize{0900}

\divide\parskip by 2 % reduce space between paragraphs
\textleading = 12pt % line spacing for 10pt CM
\textfonts % reset the current fonts
\rm
} % end of 10pt text font size definitions, \definetextfontsizex

% We provide the user-level command
% \fonttextsize{10}
% (or 11) to redefine the text font size. pt is assumed.
% \def\xword{11}
\def\xwordpt{10pt}
\parseargdef\fonttextsize{\xword{}\xwordpt{}}
\textsizearg{#1}\
\wlog{doing @fonttextsize \textsizearg}\
%
% Set \globaldefs so that documents can use this inside @tex, since
% makeinfo 4.8 does not support it, but we need it nonetheless.
%
\begingroup \globaldefs=1
  \ifx\textsizearg\xword \definetextfontsizex
  \else \ifx\textsizearg\xiword \definetextfontsizexi
  \else \errhelp=\EMsimple
  \errmessage{@fonttextsize only supports `10' or `11', not \textsizearg}
  \fi\fi
\endgroup
%
% In order for the font changes to affect most math symbols and letters,
% we have to define the \textfont of the standard families.  Since
% texinfo doesn't allow for producing subscripts and superscripts except
% in the main text, we don't bother to reset \scriptfont and
% \scriptscriptfont (which would also require loading a lot more fonts).
%
\def\resetmathfonts{%
  \textfont0=\tenrm \textfont1=\teni \textfont2=\tensy
  \textfont\itfam=\tenit \textfont\slfam=\tensl \textfont\bffam=\tenbf
  \textfont\ttfam=\tentt \textfont\sffam=\tensf
%
% The font-changing commands redefine the meanings of \tenSTYLE, instead
% of just \STYLE.  We do this because \STYLE needs to also set the
% current \fam for math mode.  Our \STYLE (e.g., \rm) commands hardwire
% \tenSTYLE to set the current font.
%
% Each font-changing command also sets the names \lsize (one size lower)
% and \lllsize (three sizes lower).  These relative commands are used in
% the LaTeX logo and acronyms.
%
% This all needs generalizing, badly.
%
\def\textfonts{%
  \let\tenrm=\textrm \let\tenit=\textit \let\tensl=\textsl
  \let\tenbf=\textbf \let\tentt=\texttt \let\smallcaps=\textsc
  \let\tensf=\textsf \let\teni=\texti \let\tensy=\textsy
  \let\tenttsl=\textttsl
  \def\curfontsize{text}%
  \def\lsize{reduced} \def\lllsize{smaller}%
  \resetmathfonts \setleading{\textleading}}
\def\lsize{smaller}\def\lllsize{smaller}\
\resetmathfonts \setleading{10.5pt}}
\def\smallerfonts{\let\tenrm=\smallerrm \let\tenit=\smallerit \let\tensl=\smallersl
\let\tenbf=\smallerbf \let\tentt=\smallertt \let\smallcaps=\smallersc
\let\tensf=\smallersf \let\teni=\smalleri \let\tensy=\smallersy
\let\tenttsl=\smallerttsl \def\curfontsize{smaller}\
\def\lsize{smaller}\def\lllsize{smaller}\
\resetmathfonts \setleading{9.5pt}}

% Fonts for short table of contents.
\setfont\shortcontrm\rmshape{12}{1000}{OT1}
\setfont\shortcontbf\bfshape{10}{\magstep1}{OT1}  % no cmb12
\setfont\shortcontsl\slshape{12}{1000}{OT1}
\setfont\shortconttt\ttshape{12}{1000}{OT1TT}

% Define these just so they can be easily changed for other fonts.
\def\angleleft{$\langle$}
\def\angleright{$\rangle$}

% Set the fonts to use with the @small... environments.
\def\smallexamplefonts = \smallfonts

% About \smallexamplefonts. If we use \smallfonts (9pt), @smallexample
% can fit this many characters:
% 8.5x11=86    smallbook=72   a4=90    a5=69
% If we use \scriptfonts (8pt), then we can fit this many characters:
% 8.5x11=90+   smallbook=80   a4=90+   a5=77
% For me, subjectively, the few extra characters that fit aren't worth
% the additional smallness of 8pt. So I'm making the default 9pt.
%
% By the way, for comparison, here's what fits with @example (10pt):
% 8.5x11=71    smallbook=60   a4=75    a5=58
% --karl, 24jan03.
%
% Set up the default fonts, so we can use them for creating boxes.
%
\definetextfontsizexi

\message{markup,}

% Check if we are currently using a typewriter font. Since all the
% Computer Modern typewriter fonts have zero interword stretch (and
% shrink), and it is reasonable to expect all typewriter fonts to have
% this property, we can check that font parameter.
%
\def\ifmonospace{\ifdim\fontdimen3\font=0pt}

% Markup style infrastructure.  \def\markupstylesetup\INITMACRO will
% define and register \INITMACRO to be called on markup style changes.
% \INITMACRO can check \currentmarkupstyle for the innermost
% style and the set of \ifmarkupSTYLE switches for all styles
% currently in effect.
\newif\ifmarkupvar
\newif\ifmarkupsamp
\newif\ifmarkupkey
%\newif\ifmarkupfile % @file == @samp.
%\newif\ifmarkupoption % @option == @samp.
\newif\ifmarkupcode
\newif\ifmarkupkbd
%\newif\ifmarkupenv % @env == @code.
%\newif\ifmarkupcommand % @command == @code.
\newif\ifmarkuptex % @tex (and part of @math, for now).
\newif\ifmarkupexample
\newif\ifmarkupverb
\newif\ifmarkupverbatim

\let\currentmarkupstyle\empty
\def\setupmarkupstyle#1{\csname markup#1true\endcsname
\def\currentmarkupstyle{#1}\markupstylesetup}
\let\markupstylesetup\empty
\def\defmarkupstylesetup#1{\expandafter\def\expandafter\markupstylesetup\expandafter{\markupstylesetup #1}#1}

% Markup style setup for left and right quotes.
\def\markupstylesetup\markupsetuplq{\expandafter\let\expandafter \temp\csname markupsetuplq\currentmarkupstyle\endcsname
\if\temp\relax \markupsetuplqdefault \else \temp \fi}
\def\markupstylesetup\markupsetuprq{\expandafter\let\expandafter \temp\csname markupsetuprq\currentmarkupstyle\endcsname
\if\temp\relax \markupsetuprqdefault \else \temp \fi}

% Markup style setup for left and right quotes.
\def\markupstylesetup\markupsetuplq{\expandafter\let\expandafter \temp\csname markupsetuplq\currentmarkupstyle\endcsname
\if\temp\relax \markupsetuplqdefault \else \temp \fi}
\def\markupstylesetup\markupsetuprq{\expandafter\let\expandafter \temp\csname markupsetuprq\currentmarkupstyle\endcsname
\if\temp\relax \markupsetuprqdefault \else \temp \fi}
% Allow an option to not use regular directed right quote/apostrophe
% (char 0x27), but instead the undirected quote from cmtt (char 0x0d).
% The undirected quote is ugly, so don't make it the default, but it
% works for pasting with more pdf viewers (at least evince), the
% lilypond developers report. xpdf does work with the regular 0x27.
% \def\codequoteright{\%\expandafter\ifx\csname SETtxicodequoteundirected\endcsname\relax
% \expandafter\ifx\csname SETcodequoteundirected\endcsname\relax
% '\else '15 \fi
% \else 'char'15 \fi
% \}
% and a similar option for the left quote char vs. a grave accent.
% Modern fonts display ASCII 0x60 as a grave accent, so some people like
% the code environments to do likewise.
% Commands to set the quote options.
%
\parseargdef\codequoteundirected{%
\def\temp[#1]{%
\if\temp\onword
\expandafter\let\csname SETtxicodequoteundirected\endcsname = t%
\else\if\temp\offword
\expandafter\let\csname SETtxicodequoteundirected\endcsname = \relax
\else
\errhelp = \Emsimple
\errmessage{Unknown @codequoteundirected value `\temp', must be on|off}%
\fi\fi
%
\parseargdef\codequotebacktick{%
\def\temp[#1]{%
\if\temp\onword
\expandafter\let\csname SETtxicodequotebacktick\endcsname = t%
\else\if\temp\offword
\expandafter\let\csname SETtxicodequotebacktick\endcsname = \relax
\else
\errhelp = \Emsimple
\errmessage{Unknown @codequotebacktick value `\temp', must be on|off}%
\fi\fi
%
% [Knuth] pp. 380,381,391, disable Spanish ligatures `?' and `!' of `tt' font.
\def\noligaturesquoteleft{\relax'\lq}
% Count depth in font-changes, for error checks
\newcount\fontdepth \fontdepth=0
%
% Font commands.
% #1 is the font command (\sl or \it), #2 is the text to slant.
% If we are in a monospaced environment, however, 1) always use \ttsl,
% and 2) do not add an italic correction.
\def\dosmartslant#1#2{%
\ifusingtt
  \ifx#2%
    \let\next=\relax%
  \else
    \def\next{{#1#2}\futurelet\next\smartitaliccorrection}%
\fi
\fi
}
\def\smartslanted{\dosmartslant\sl}
\def\smartitalic{\dosmartslant\it}

% Output an italic correction unless \next (presumed to be the following
% character) is such as not to need one.
\def\smartitaliccorrection{%
  \ifx\next,%
  \else\ifx\next-%
  \else\ifx\next.%
  \else\ptexslash
  \fi\fi\fi
  \aftersmartic
}

% Unconditional use \ttsl, and no ic.  @var is set to this for defuns.
\def\ttslanted#1{{\ttsl #1}}

% @cite is like \smartslanted except unconditionally use \sl.  We never want
% \tsl for book titles, do we?
\def\cite#1{{\sl #1}\futurelet\next\smartitaliccorrection}

\def\aftersmartic{}
\def\var#1{%
  \let\saveaftersmartic = \aftersmartic
  \def\aftersmartic{\null\let\aftersmartic=\saveaftersmartic}
  \smartslanted{#1}%
}
\let\i=\smartitalic
\let\slanted=\smartslanted
\let\dfn=\smartslanted
\let\emph=\smartitalic

% Explicit font changes: @r, @sc, undocumented @ii.
\def\r#1{{\rm #1}}              % roman font
\def\sc#1{{\smallcaps#1}}       % smallcaps font
\def\ii#1{{\it #1}}             % italic font
% Change normal interword space to be same as for the current font.
\spaceskip = \fontdimen2\font
%
% Switch to typewriter.
\tt
%
% But \ produces the large typewriter interword space.
\def\{}{\spaceskip = 0pt{}}%
%
% Turn off hyphenation.
\nohyphenation
%
\rawbackslash
\plainfrenchspacing
#1%
}%
\null % reset spacefactor to 1000
}
%
% We *must* turn on hyphenation at `-` and `_` in @code.
% Otherwise, it is too hard to avoid overfull hboxes
% in the Emacs manual, the Library manual, etc.
%
% Unfortunately, TeX uses one parameter (\hyphenchar) to control
% both hyphenation at - and hyphenation within words.
% We must therefore turn them both off (\tclose does that)
% and arrange explicitly to hyphenate at a dash.
% -- rms.
{
  \catcode`\-=\active \catcode`\_=\active
  \catcode`\\=\active \catcode`\-=\active
  \global\let\rq\global\let\lq % default definitions
%
  \global\def\code{\begingroup
    \setupmarkupstyle{code}%
    % The following should really be moved into \setupmarkupstyle handlers.
    \catcode\dashChar=\active \catcode\underChar=\active
    \ifallowcodebreaks
      \let\codedash
      \let\codeunder
    \else
      \let\normaldash
      \let\realunder
    \fi
    \codex
  \endgroup
}
\def\codex #1{\tc{#1}\endgroup}
\def\normaldash{-}
\def\codedash{-\discretionary{}{}{}}
\def\codeunder{%
% this is all so \texttt{\@math{\@code{var_name}+1}} can work. In math mode, _
% is "active" (mathcode"8000) and \normalunderscore (or \char95, etc.)
% will therefore expand the active definition of _, which is us
% (inside \@code that is), therefore an endless loop.
\ifusingtt{
\ifmmode
\mathchar"075F % class 0=ordinary, family 7=ttfam, pos 0x5F=_.
\else\normalunderscore \fi
\discretionary{}{}{}}%
_{}
}% An additional complication: the above will allow breaks after, e.g.,
% each of the four underscores in __typeof__. This is bad.
% \allowcodebreaks provides a document-level way to turn breaking at -
% and _ on and off.
% 
\newif\ifallowcodebreaks \allowcodebreakstrue
\def\keywordtrue{true}
\def\keywordfalse{false}
\parseargdef\allowcodebreaks{%
\def\txiarg{#1}%
\ifx\txiarg\keywordtrue
\allowcodebreakstrue
\else\ifx\txiarg\keywordfalse
\allowcodebreaksfalse
\else
\errhelp = \EMsimple
\errmessage{Unknown \allowcodebreaks option \texttt{\txiarg}, must be true|false}%
\fi\fi
}
%
% For \@command, \@env, \@file, \@option quotes seem unnecessary,
% so use \code rather than \samp.
\let\command=\code
\let\env=\code
\let\file=\code
\let\option=\code
%
% \@uref (abbreviation for \texttt{\urlref}) takes an optional (comma-separated)
% second argument specifying the text to display and an optional third
% arg as text to display instead of (rather than in addition to) the url
% itself. First (mandatory) arg is the url.
% (This \urefnobreak definition isn’t used now, leaving it for a while
% for comparison.)
\def\urefnobreak#1{\dourefnobreak #1,,\finish}
\def\dourefnobreak#1,#2,#3,#4\finish{\begingroup
\unsepspaces
\pdfurl{#1}\
\setbox0 = \hbox{\ignorespaces #3}\%
\ifpdf\wd0 > 0pt
\unhbox0 % third arg given, show only that
\else
\setbox0 = \hbox{\ignorespaces #2}\%
\ifpdf\wd0 > 0pt
\pdfurl{#1}\
\unhbox0         % PDF: 2nd arg given, show only it
\else
\unhbox0\par
\pdfurl{#1}\code{#2}% DVI: 2nd arg given, show both it and url
\fi
\else
\par
\code{#1}% only url given, so show it
\fi
\fi
\endlink
\endgroup}
% This \urefbreak definition is the active one.
\def\urefbreak{\begingroup \urefcatcodes \dourefbreak}
\def\dourefbreak#1{\urefbreakfinish #1,,\finish}
\def\urefbreakfinish#1,#2,#3,#4\finish{% doesn’t work in @example
\unsepspaces
\pdfurl{#1}\
\setbox0 = \hbox{\ignorespaces #3}\%
\ifpdf\wd0 > 0pt
\unhbox0 % third arg given, show only that
\else
\setbox0 = \hbox{\ignorespaces #2}\%
\ifpdf\wd0 > 0pt
\pdfurl{#1}\
\unhbox0       % PDF: 2nd arg given, show only it
\else
\unhbox0\par
\pdfurl{#1}\code{#2}% DVI: 2nd arg given, show both it and url
\fi
\else
\par
\code{#1}% only url given, so show it
\fi
\fi
\endlink
\endgroup}
% Allow line breaks around only a few characters (only).
def\urefcatcodes {\catcode\ampChar=\active \catcode\dotChar=\active
\catcode\hashChar=\active \catcode\questChar=\active
\catcode\slashChar=\active
}
%
\urefcatcodes
%
\global\def\urefcode {\begingroup
\setupmarkupstyle {code}%%
\urefcatcodes
\let&\urefcodeamp
\let.\urefcodedot
\let#\urefcodehash
\let?\urefcodequest
\let/\urefcodeslash
\codex
}
%
% By default, they are just regular characters.
\global\def& {
ormalamp}
\global\edef. {\normaldot}
\global\def# {\normalhash}
\global\def? {\normalquest}
\global\def/ {\normalslash}
%
% we put a little stretch before and after the breakable chars, to help
% line breaking of long url's. The unequal skips make look better in
% cmtt at least, especially for dots.
def\urefprestretch {\urefbreak \hskip0pt plus 1.3em }
def\urefpoststretch {\urefbreak \hskip0pt plus 1.0em }
%
def\urefcodeamp {\urefprestretch \& \urefpoststretch}
def\urefcodedot {\urefprestretch . \urefpoststretch}
def\urefcodehash {\urefprestretch # \urefpoststretch}
def\urefcodequest {\urefprestretch ? \urefpoststretch}
def\urefcodeslash {\futurelet\next \urefpoststretch finish}
{
\catcode`\V=\active
\global\def\urefpoststretch finish %
\urefpoststretch \slashChar
%
% Allow line break only after the final / in a sequence of
% slashes, to avoid line break between the slashes in http://.
% One more complication: by default we’ll break after the special % characters, but some people like to break before the special chars, so % allow that. Also allow no breaking at all, for manual control.  % \parseargdefault\urefbreakstyle{% 
\def\txiarg[#1]{% 
\ifdef\txiarg{wordnone} 
\def\urefprebreak{\nobreak}\def\urefpostbreak{\nobreak} 
\else\ifdef\txiarg{wordbefore} 
\def\urefprebreak{\allowbreak}\def\urefpostbreak{\nobreak} 
\else\ifdef\txiarg{wordafter} 
\def\urefprebreak{\nobreak}\def\urefpostbreak{\allowbreak} 
\else 
\errhelp = \EMsimple 
\errmessage{Unknown \urefbreakstyle setting `\txiarg'}% 
\fi\fi} 
\def\wordafter{after} 
\def\wordbefore{before} 
\def\wordnone{none} 

\urefbreakstyle after 

% @url synonym for @uref, since that’s how everyone uses it. % \let\url=\uref 

% rms does not like angle brackets --karl, 17may97. % So now @email is just like @uref, unless we are pdf. % \ifdef\email#1{\angleleft{tt #1}\angleright} \ifdefpdf \def\email#1{\doemail#1.,\finish} \def\doemail#1,#2,#3\finish{\begingroup \unsepspaces \pdfurl{mailto:#1} \setbox0 = \hbox{\ignorespaces #2} \ifdim\wd0>0pt\unhbox0\else\code{#1}\fi \endlink \endgroup} \else \let\email=\uref \fi
% @kbdinputstyle -- arg is `distinct' (@kbd uses slanted tty font always),
% `example' (@kbd uses ttsl only inside of @example and friends),
% or `code' (@kbd uses normal tty font always).
\parsearg{\def\txiarg{#1}%
  \ifx\txiarg\worddistinct
    \gdef\kbdexamplefont{\ttsl}\gdef\kbdfont{\ttsl}%
  \else\ifx\txiarg\wordexample
    \gdef\kbdexamplefont{\ttsl}\gdef\kbdfont{\tt}%
  \else\ifx\txiarg\wordcode
    \gdef\kbdexamplefont{\tt}\gdef\kbdfont{\tt}%
  \else
    \errhelp = \Em{simple}
    \errmessage{Unknown @kbdinputstyle setting `	xiarg'}% 
    \fi\fi\fi
}
\def\worddistinct{distinct}
\def\wordexample{example}
\def\wordcode{code}

% Default is `distinct'.
\kbdinputstyle distinct

% @kbd is like @code, except that if the argument is just one @key command,
% then @kbd has no effect.
\def\kbd#1{{\def\look{#1}\expandafter\kbdsub\look??\par}}
\def\xkey{\key}
\def\kbdsub#1#2#3??\par{\def\one{#1}\def\three{#3}\def\threex{??}\ifx\one\xkey\ifx\threex\three \key{#2}\else{\tclose{\kbdfont\setupmarkupstyle{kbd}\look}}\fi\else{\tclose{\kbdfont\setupmarkupstyle{kbd}\look}}\fi}

% definition of @key that produces a lozenge. Doesn't adjust to text size.
% \setfont\keyrm\rmshape{8}{1000}{OT1}
% \font\keysy=cmsy9
% \def\key#1{\keyrm\leavevmode\hbox{\raise0.4pt\hbox{\angleleft}\kern-.08em\vtop{\vbox{\hrule\kern-0.4pt\vbox{\phantom{\angleleft}}#1}}\kern-0.4pt\hrule}\kern-.06em\raise0.4pt\hbox{\angleright}}}

% definition of @key with no lozenge. If the current font is already
% monospace, don't change it; that way, we respect @kbdinputstyle. But
% if it isn't monospace, then use \tt.
% @asis just yields its argument. Used with @table, for example.
% \def\asis#1{#1}

% @math outputs its argument in math mode.
% % One complication: _ usually means subscripts, but it could also mean
% % an actual _ character, as in @math[@var{some_variable} + 1]. So make
% % _ active, and distinguish by seeing if the current family is \slfam,
% % which is what @var uses.
{\catcode`\_=\active
\gdef\mathunderscore{\catcode`\_=\active
  \def_{\ifnum\fam=\slfam \_\else\sb\fi}}%
}

% Another complication: we want \ (and @\) to output a math (or tt) \.  
% FYI, plain.tex uses \ as a temporary control sequence (for no  
% particular reason), but this is not advertised and we don't care.
%
% % The \mathchar is class=0=ordinary, family=7=ttfam, position=5C=\.
\def\mathbackslash{\unfnum\fam=\ttfam \mathchar"075C \else\backslash \fi}
%
\def\math{\tex\mathunderscore\let\=\mathbackslash\mathactive%
% make the texinfo accent commands work in math mode
\let\"=\ddot
\let\=\acute
\let\=\bar
\let\=\hat
\let\=\breve
\let\=\check
\let\=\tilde
\let\dotaccent=\dot
$\finishmath$
}
\def\finishmath#1{#1$\endgroup}  % Close the group opened by \tex.

% Some active characters (such as <) are spaced differently in math.
% We have to reset their definitions in case the @math was an argument 
% to a command which sets the catcodes (such as @item or @section).
% and logos.

% @@ prints an @, as does @char{ }.
\def@@{\char64 }
\let@char=\@

% @ { @ } @bracechar{ } @rbracechar{ } all generate brace characters.
% Unless we’re in typewriter, use \ecfont because the CM text fonts do
% not have braces, and we don’t want to switch into math.
\def\mybrace{\ifmonospace\else\ecfont\fi \char123}
\def\myrbrace{\ifmonospace\else\ecfont\fi \char125}
\let\{=\mybrace \let\bracechar=\{
\let\}=\myrbrace \let\rbracechar=\}

\begingroup
% Definitions to produce \{ and \} commands for indices,
% and @ and @ for the aux/toc files.
\catcode`\{ = \other \catcode`\} = \other
\catcode`\! = 0 \catcode`\! = \other
!gdef!bracecmd[\{\}]
!gdef!braceatcmd[@[@]
!gdef!braceatcmd[@@]
!endgroup

% @comma{} to avoid , parsing problems.
\let\comma = ,

% Accents: @, @dotaccent @ringaccent @ubaraccent @udotaccent
% Others are defined by plain TeX: @` @’ @“ @^ @’ @= @u @v @H.
\let\! = \ptexc
\let\dotaccent = \ptexdot
\def\ringaccent\#1{{\accent23 \#1}}
\let\tieaccent = \ptext
\let\ubaraccent = \ptexb
\let\udotaccent = \d

% Other special characters: @questiondown @exclamdown @ordf @ordm
% Plain TeX defines: @AA @AE @O @OE @L (plus lowercase versions) @ss.
\def@questiondown{?}
\def@exclamdown{!}
\def@ordf\{leavevmode\raise1ex\hbox{\selectfont\llsize \underbar{a}}\}
\def@ordm\{leavevmode\raise1ex\hbox{\selectfont\llsize \underbar{o}}\}

% Dotless i and dotless j, used for accents.
\def@imacro{i}
\def@jmacro{j}
\def@dotless#1{%
\def\temp[#1]{\ifx\temp\imacro \ifmmode \imath \else \ptexi \fi \else \ifx\temp\jmacro \ifmmode \jmath \else \j \fi \else \errmessage{@dotless can be used only with i or j} \fi \fi}

% The \TeX{} logo, as in plain, but resetting the spacing so that a
% period following counts as ending a sentence. (Idea found in latex.)
% \edef\TeX{\TeX \spacefactor=1000 }

% @LaTeX{} logo. Not quite the same results as the definition in
% latex.ltx, since we use a different font for the raised A; it's most
% convenient for us to use an explicitly smaller font, rather than using
% the \scriptstyle font (since we don't reset \scriptstyle and
% \scriptscriptstyle).
% \def\LaTeX{L\kern-.36em
% \setbox0=\hbox{T}
% \vbox to \ht0{\hbox{\ifx\textnominalsize\xwordpt
% % for 10pt running text, \lllsize (8pt) is too small for the A in La\TeX{}.
% % Revert to plain's \scriptsize, which is 7pt.
% \count255=\the\fam \fam\count255 \scriptstyle A\%
% \else
% % For 11pt, we can use our \lllsize.
% \selectfonts\lllsize A\%
% \fi
% \}}
% \kern-.15em
% \TeX}

% Some math mode symbols.
\def\bullet{\ptexbullet}
\def\geq{\ifmmode \ge\else $\ge$\fi}
\def\leq{\ifmmode \le\else $\le$\fi}
\def\minus{\ifmmode -\else $-$\fi}
\def\dots{\ifmmode \ldots\else \ldots\fi}

% We do .5em per period so that it has the same spacing in the cm
% typewriter fonts as three actual period characters; on the other hand,
% in other typewriter fonts three periods are wider than 1.5em. So do
% whichever is larger.
% By the way, simply using "at 1em" works for cmr10 and the like, but
% does not work for cmbx10 and other extended/shrunken fonts.
%
\def\eurosize{\csname \curfontsize \nominalsize \endcsname}
%
% \if\curfontstyle\bfstyleaname
% bold:
% \font\thiseurofont = \ufusingit{feybo10}{feybr10} at \eurosize
% \else
% % regular:
% \font\thiseurofont = \ufusingit{feymo10}{feymr10} at \eurosize
% \fi
\thiseurofont

% Glyphs from the EC fonts.  We don’t use \let for the aliases, because
% sometimes we redefine the original macro, and the alias should reflect
% the redefinition.
%
% Use LaTeX names for the Icelandic letters.
\def\DH{\ecfont \char"D0} % Eth
\def\dh{\ecfont \char"F0} % eth
\def\TH{\ecfont \char"DE} % Thorn
\def\th{\ecfont \char"FE} % thorn
%
\def\guillemetleft{\ecfont \char"13}
\def\guillemotleft{\guillemetleft}
\def\guillemetright{\ecfont \char"14}
\def\guillemotright{\guillemetright}
\def\guilsinglleft{\ecfont \char"0E}
\def\guilsinglright{\ecfont \char"0F}
\def\quotedblbase{\ecfont \char"12}
\def\quotesinglbase{\ecfont \char"0D}
%
% This positioning is not perfect (see the ogonek LaTeX package), but
% we have the precomposed glyphs for the most common cases.  We put the
% tests to use those glyphs in the single \ogonek macro so we have fewer
% dummy definitions to worry about for index entries, etc.
%
% ogonek is also used with other letters in Lithuanian (IOU), but using
% the precomposed glyphs for those is not so easy since they aren’t in
% the same EC font.
\def\ogonek#1{\%
\def\temp{#1}\%
\ifx\temp\macrocharA\Aogonek
\else\ifx\temp\macrochara\aogonek
\else\ifx\temp\macrocharE\Eogonek
\else\ifx\temp\macrochare\eogonek
\fi\fi\fi\fi
}
Laurent Siebenmann reports \texttt{\textdegree} undefined with:

Textures 1.7.7 (preloaded format=plain 93.10.14) (68K) 16 APR 2004 02:38

so we'll define it if necessary.

\def\textdegree{$\textdegree$}

% Quotes.
\chardef\quotedblleft="5C
\chardef\quotedblright=`\"
\chardef\quoteleft=`\'
\chardef\quoteright=`\'

% Messages.
\message{page headings,}

\newskip\titlepagetopglue \titlepagetopglue = 1.5in
\newskip\titlepagebottomglue \titlepagebottomglue = 2pc

% First the title page.  Must do @settitle before @titlepage.
\newif\ifseenauthor
\newif\iffinishedtitlepage

% Do an implicit @contents or @shortcontents after @end titlepage if the
% user says @setcontentsaftertitlepage or @setshortcontentsaftertitlepage.
% \newif\ifssetcontentsaftertitlepage
\let\setcontentsaftertitlepage = \setcontentsaftertitlepagetrue
\newif\ifssetshortcontentsaftertitlepage
\let\setshortcontentsaftertitlepage = \setshortcontentsaftertitlepagetrue

% \parseargdef\shorttitlepage{%
\begingroup \hbox{}\vskip 1.5in \chaprm \centerline{#1}%
\endgroup\page\hbox{}\page}

% \envdef\titlepage{%
% Open one extra group, as we want to close it in the middle of \Etitlepage.
\begingroup
\parindent=0pt \textfonts
% Leave some space at the very top of the page.
\vglue\titlepagetopglue
% No rule at page bottom unless we print one at the top with @title.
\finishedtitlepagetrue
%
% Most title ``pages'' are actually two pages long, with space
\let\oldpage = \page
\def\page{%
  \iffinishedtitlepage\else
  \finishtitlepage
  \fi
  \let\page = \oldpage
  \page
  \null
}%
}

\def\Etitlepage{%
  \iffinishedtitlepage\else
  \finishtitlepage\fi
  % It is important to do the page break before ending the group, 
  % because the headline and footline are only empty inside the group. 
  % If we use the new definition of \page, we always get a blank page 
  % after the title page, which we certainly don't want. 
  \oldpage
  \endgroup
  %
  % Need this before the \...aftertitlepage checks so that if they are 
  % in effect the toc pages will come out with page numbers. 
  \HEADINGSon
  %
  % If they want short, they certainly want long too. 
  \ifsetshortcontentsaftertitlepage
    \shortcontents
  \contents
  \global\let\shortcontents = \relax
  \global\let\contents = \relax
  \fi
  %
  \ifsetcontentsaftertitlepage
    \contents
    \global\let\contents = \relax
    \global\let\shortcontents = \relax
  \fi
}%

\def\finishtitlepage{%
  \vskip4pt \hrule height 2pt width \hsize
  \vskip\titlepagebottomglue
  \finishedtitlepagetrue
}
% Settings used for typesetting titles: no hyphenation, no indentation, 
% don't worry much about spacing, ragged right. This should be used 
% inside a \vbox, and fonts need to be set appropriately first. Because 
% it is always used for titles, nothing else, we call \rmi. \par 
% should be specified before the end of the \vbox, since a vbox is a group.  
%
def\raggedtitlesettings{ 
\rmisbold 
\hyphenpenalty=10000 
\parindent=0pt 
\tolerance=5000 
\ptexraggedright
}

% Macros to be used within @titlepage:

\def\subtitlerm=\tenrm
\def\subtitlefont{\subtitlerm \normalbaselineskip = 13pt \normalbaselines}

\parseargdef\title{\checkenv\titlepage 
\vbox{\raggedtitlesettings #1\par}}%

% print a rule at the page bottom also. 
\finishedtitlepagefalse 
\vskip4pt \hrule height 4pt width \hsize \vskip4pt
}

\parseargdef\subtitle{ \checkenv\titlepage {\subtitlefont \rightline{#1}}}

% @author should come last, but may come many times. 
% It can also be used inside @quotation.
%
\parseargdef\author{\checkenv\titlepage 
\def\temp{\quotation} \ifx\thisenv\temp 
\def\quotationauthor{#1} \else \checkenv\titlepage 
\ifseenauthor\else \vskip 0pt plus 1filll \seenauthortrue \fi 
{\secfonts\rmisbold \leftline{#1}} \fi 
\fi }

% Set up page headings and footings.
\let\thispage=\folio

\newtoks\evenheadline \% headline on even pages
\newtoks\oddheadline \% headline on odd pages
\newtoks\evenfootline \% footline on even pages
\newtoks\oddfootline \% footline on odd pages

\% Now make TeX use those variables
\headline={\textfonts\rm \ifodd\pageno \the\oddheadline \\
\else \the\evenheadline \fi}
\footline={\textfonts\rm \ifodd\pageno \the\oddfootline \\
\else \the\evenfootline \fi}\HEADINGShook}
\let\HEADINGShook=\relax

\% Commands to set those variables.
\% For example, this is what \@headings on \ does
\% \@evenheading \@thistitle|\@thispage|\@thischapter
\% \@oddheading \@thischapter|\@thispage|\@thistitle
\% \@evenfooting \@thisfile||
\% \@oddfooting ||\@thisfile

\def\evenheading{\parsearg\evenheadingxxx}
\def\evenheadingxxx #1{\evenheadingyyy #1|||\|\|\|\|\finish}
\def\evenheadingyyy #1||#2||#3||#4\finish{\global\evenheadline={\rlap{\centerline{#2}}\line{#1\hfil#3}}}

\def\oddheading{\parsearg\oddheadingxxx}
\def\oddheadingxxx #1{\oddheadingyyy #1|||\|\|\|\|\finish}
\def\oddheadingyyy #1||#2||#3||#4\finish{\global\oddheadline={\rlap{\centerline{#2}}\line{#1\hfil#3}}}

\parsearg\def\everyheading{\oddheadingxxx#1}\everyheadingxxx{#1}

\parsearg\def\evenfooting{\parsearg\evenfootingxxx}
\def\evenfootingxxx #1{\evenfootingyyy #1|||\|\|\|\|\finish}
\def\evenfootingyyy #1||#2||#3||#4\finish{\global\evenfootline={\rlap{\centerline{#2}}\line{#1\hfil#3}}}

\def\oddfooting{\parsearg\oddfootingxxx}
\def\oddfootingxxx #1{\oddfootingyyy #1|||\|\|\|\|\finish}
\def\oddfootingyyy #1||#2||#3||#4\finish{\global\oddfootline={\rlap{\centerline{#2}}\line{#1\hfil#3}}}

\global\advance\pageheight by -12pt

% Leave some space for the footline. Hopefully ok to assume
% \@evenfooting will not be used by itself.
\global\advance\pageheight by -12pt
\global\advance\vsize by -12pt
}

\parseargdef\everyfooting{\oddfootingxxx[#1]\evenfootingxxx[#1]}

% @evenheadingmarks top \thischapter <- chapter at the top of a page
% @evenheadingmarks bottom \thischapter <- chapter at the bottom of a page
% The same set of arguments for:
% @oddheadingmarks
% @evenfootingmarks
% @oddfootingmarks
% @everyheadingmarks
% @everyfootingmarks

\defevenheadingmarks{\headingmarks{even}{heading}}
\defoddheadingmarks{\headingmarks{odd}{heading}}
\defevenfootingmarks{\headingmarks{even}{footing}}
\defoddfootingmarks{\headingmarks{odd}{footing}}
\defeveryheadingmarks#1 {\headingmarks{even}{heading}{#1}}
\defeveryfootingmarks#1 {\headingmarks{even}{footing}{#1}}
% #1 = even/odd, #2 = heading/footing, #3 = top/bottom.
\def\headingmarks#1#2#3 {\expandafter\let\expandafter\temp \csname get#3headingmarks\endcsname
\global\expandafter\let\csname get#1#2marks\endcsname \temp}

\everyheadingmarks bottom
\everyfootingmarks bottom
% @headings double turns headings on for double-sided printing.
% @headings single turns headings on for single-sided printing.
% @headings off turns them off.
% @headings on same as @headings double, retained for compatibility.
% @headings after turns on double-sided headings after this page.
% @headings doubleafter turns on double-sided headings after this page.
% @headings singleafter turns on single-sided headings after this page.
% By default, they are off at the start of a document,
% and turned `on' after @end titlepage.
\def\headings #1 {\csname HEADINGS#1\endcsname}
\def\headingsoff{% non-global headings elimination
\evenheadline=\hfil\evenfootline=\hfil\%
\oddheadline=\hfil\oddfootline=\hfil\%}
% Subroutines used in generating headings
% This produces Day Month Year style of output.
% Only define if not already defined, in case a txi-??\.tex file has set
% up a different format (e.g., txi-cs\.tex does this).
\ifx\today\thisisundefined
  \def\today{%
    \number\day\space
    \ifcase\month
      \or\putwordMJan\or\putwordMFeb\or\putwordMMar\or\putwordMApr
      \or\putwordMMay\or\putwordMJun\or\putwordMJul\or\putwordMAug
      \or\putwordMSep\or\putwordMOct\or\putwordMNov\or\putwordMDec
    \fi
    \space\number\year}
  \fi

% @settitle line... specifies the title of the document, for headings.
% It generates no output of its own.
\def\histitle{\putwordNoTitle}
\def\settitle{\parsearg\gdef\histitle}
\itemmax=\tableindent
\advance \itemmax by -\itemmargin
\advance \leftskip by \tableindent
\exdentamount=\tableindent
\parindent = 0pt
\parskip = \smallskipamount
\ifdim \parskip=0pt \parskip=2pt \fi
\let\item = \internalBitem
\let\itemx = \internalBitemx
%
\def\Etable{\endgraf\afterenvbreak}
\let\Eftable=Etable
\let\Evtable=Etable
\let\Eitemize=Etable
\let\Eenumerate=Etable
%
% This is the counter used by @enumerate, which is really @itemize

\newcount \itemno
%
\envdef\itemize{\parsearg\doitemize}

\def\doitemize#1{%
\aboveenvbreak
\itemmax=\itemindent
\advance \itemmax by -\itemmargin
\advance \leftskip by \itemindent
\exdentamount=\itemindent
\parindent=0pt
\parskip=\smallskipamount
\ifdim \parskip=0pt \parskip=2pt \fi
%
% Try typesetting the item mark that if the document erroneously says
% something like @itemize @samp (intending @table), there's an error
% right away at the @itemize. It's not the best error message in the
% world, but it's better than leaving it to the @item. This means if
% the user wants an empty mark, they have to say @w{} not just @w.
\def\itemcontents(#1)%
\setbox0 = \hbox{\itemcontents}%
%
% @itemize with no arg is equivalent to @itemize @bullet.
\ifx\itemcontents\empty\def\itemcontents{\bullet}\fi
%
\let\item=\itemizeitem
}
%
% Definition of @item while inside @itemize and @enumerate.

---
Open Source Used In Cisco D9800 Network Transport Receiver Version 3.75
1269
\def\itemizeitem{ %
  \advance\itemno by 1 % for enumerations
  {\let\par=\endgraf \smallbreak}% reasonable place to break
  { %
    % If the document has an @itemize directly after a section title, a
    % \nobreak will be last on the list, and \sectionheading will have
    % done a \vskip-\parskip. In that case, we don't want to zero
    % \parskip, or the item text will crash with the heading. On the
    % other hand, when there is normal text preceding the item (as there
    % usually is), we do want to zero \parskip, or there would be too much
    % space. In that case, we won't have a \nobreak before. At least
    % that's the theory.
    \ifnum\lastpenalty<10000 \parskip=0in \fi
    \noindent
    \hbox to 0pt{\hss \itemcontents \kern\itemmargin} %
    \vadjust{\penalty 1200}% not good to break after first line of item.
    \flushcr %
}

% \splitoff TOKENS\endmark defines \first to be the first token in
% TOKENS, and \rest to be the remainder.
%\def\splitoff#1#2\endmark{\def\first{#1}\def\rest{#2}}%

% Allow an optional argument of an uppercase letter, lowercase letter,
% or number, to specify the first label in the enumerated list. No
% argument is the same as `1'.
%\envparseargdef\enumerate{\enumeratey #1  \endenumeratey}
\def\enumeratey #1 #2\endenumeratey{%
  % If we were given no argument, pretend we were given `1'.
  \def\thearg{#1}\
  \ifx\thearg\empty \def\thearg{1}\fi
  %
  % Detect if the argument is a single token. If so, it might be a
  % letter. Otherwise, the only valid thing it can be is a number.
  % (We will always have one token, because of the test we just made.
  % This is a good thing, since \splitoff doesn't work given nothing at
  % all -- the first parameter is undelimited.)
  \expandafter\splitoff\thearg\endmark
  \ifx\rest\empty \def\rest\thearg{1}\fi
  %
  % Only one token in the argument. It could still be anything.
  % A `lowercase letter' is one whose \lccode is nonzero.
  % An `uppercase letter' is one whose \lccode is both nonzero, and
  % not equal to itself.
  % Otherwise, we assume it's a number.
% We need the \relax at the end of the \ifnum lines to stop TeX from
% continuing to look for a <number>.
% \ifnum\lccode\expandafter`	hearg=0\relax
% numericenumerate % a number (we hope)
% \else
% It's a letter.
% \ifnum\lccode\expandafter`	hearg=\expandafter`	hearg\relax
% lowercaseenumerate % lowercase letter
% \else
% uppercaseenumerate % uppercase letter
% \fi
% \fi
% \else
% Multiple tokens in the argument. We hope it's a number.
% numericenumerate
% \fi
%
% An @enumerate whose labels are integers. The starting integer is% given in \thearg.
% \def\numericenumerate{%
% \itemno = \thearg
% \startenumeration{\the\itemno}%
% }
%
% The starting (lowercase) letter is in \thearg.
\def\lowercaseenumerate{%
\itemno = \expandafter`	hearg\expandafter`	hearg
\startenumeration{%
% Be sure we're not beyond the end of the alphabet.
\ifnum\itemno=0
\errmessage{No more lowercase letters in @enumerate; get a bigger
alphabet}%
\fi
% char\lccode\itemno
%
%
% The starting (uppercase) letter is in \thearg.
\def\uppercaseenumerate{%
\itemno = \expandafter`	hearg\expandafter`	hearg
\startenumeration{%
% Be sure we're not beyond the end of the alphabet.
\ifnum\itemno=0
\errmessage{No more uppercase letters in @enumerate; get a bigger
alphabet}%
\begin{verbatim}
alphabet\
\fi\
\char\uccode\itemno\%
}%
%
% Call \doitemize, adding a period to the first argument and supplying the
% common last two arguments. Also subtract one from the initial value in
% \itemno, since @item increments \itemno.
%
def\startenumeration#1{%
\advance\itemno by -1
\doitemize{#1.}\flushcr
}
%
% @alphaenumerate and @capsenumerate are abbreviations for giving an arg
% to @enumerate.
%
def\alphaenumerate{\enumerate{a}}
def\capsenumerate{\enumerate{A}}
def\Ealphaenumerate{E\enumerate{a}}
def\Ecapsenumerate{E\enumerate{A}}

% @multitable macros
% Amy Hendrickson, 8/18/94, 3/6/96
%
% @multitable ... @end multitable will make as many columns as desired.
% Contents of each column will wrap at width given in preamble. Width
% can be specified either with sample text given in a template line,
% or in percent of \hsize, the current width of text on page.
%
% Table can continue over pages but will only break between lines.
%
% To make preamble:
%
% Either define widths of columns in terms of percent of \hsize:
% @multitable @columnfractions .25 .3 .45
% @item ... 
%
% Numbers following @columnfractions are the percent of the total
% current hsize to be used for each column. You may use as many
% columns as desired.
%
% Or use a template:
% @multitable {Column 1 template} {Column 2 template} {Column 3 template}
% @item ...
\end{verbatim}
% using the widest term desired in each column.

% Each new table line starts with @item, each subsequent new column
% starts with @tab. Empty columns may be produced by supplying @tab's
% with nothing between them for as many times as empty columns are needed,
% ie, @tab@tab@tab will produce two empty columns.

% @item, @tab do not need to be on their own lines, but it will not hurt
% if they are.

% Sample multitable:

% @multitable {Column 1 template} {Column 2 template} {Column 3 template}
% @item first col stuff @tab second col stuff @tab third col
% @item
% first col stuff
% @tab
% second col stuff
% @tab
% third col
% @item first col stuff @tab second col stuff
% @tab Many paragraphs of text may be used in any column.
% 
% They will wrap at the width determined by the template.
% @item@tab@tab This will be in third column.
% @end multitable

% Default dimensions may be reset by user.
% @multitableparskip is vertical space between paragraphs in table.
% @multitableparindent is paragraph indent in table.
% @multitablecolmargin is horizontal space to be left between columns.
% @multitablelinespace is space to leave between table items, baseline
% to baseline.
% 0pt means it depends on current normal line spacing.
% 
% \newskip\multitableparskip
% \newskip\multitableparindent
% \newdimen\multitablecolspace
% \newskip\multitablelinespace
% \multitableparskip=0pt
% \multitableparindent=6pt
% \multitablecolspace=12pt
% \multitablelinespace=0pt

% Macros used to set up halign preamble:
%
% \let\endsetuptable\relax
% \def\xendsetuptable{\endsetuptable}
\let\columnfractions\relax
\def\xcolumnfractions{\columnfractions}
\newif\ifsetpercent

% #1 is the @columnfraction, usually a decimal number like .5, but might
% be just 1. We just use it, whatever it is.
%
\def\pickupwholefraction#1 {%
  \global\advance\colcount by 1
  \expandafter\xdef\csname col\the\colcount\endcsname{#1\hsize}%
  \setuptable
}\def\setuptable#1{%
  \def\firstarg{#1}%
  \if\firstarg\xendsetuptable
   \let\go = \relax
  \else
   \fx\firstarg\xcolumnfractions
   \global\setpercenttrue
  \else
   \if\setpercent
    \let\go\pickupwholefraction
   \else
    \global\advance\colcount by 1
    \setbox0=\hbox{#1\unskip\space}% Add a normal word space as a
    % separator; typically that is always in the input, anyway.
    \expandafter\xdef\csname col\the\colcount\endcsname{\the\wd0}%
  \fi
  \fi
  \if\go\pickupwholefraction
    % Put the argument back for the \pickupwholefraction call, so
    % we'll always have a period there to be parsed.
    \def\go{\pickupwholefraction#1}%
  \else
    \let\go = \setuptable
  \fi%
  \fi%
\fi
\fi
\go
%
% multitable-only commands.
%
% @headitem starts a heading row, which we typeset in bold.
% Assignments have to be global since we are inside the implicit group
% of an alignment entry. \everycr resets \everytab so we don't have to
% undo it ourselves.
To parse everything between `@multitable` and `@item`:

This preamble sets up a generic column definition, which will be used as many times as user calls for columns. `\vtop` will set a single line and will also let text wrap and continue for many paragraphs if desired.

% If a template has been used, we will add \multitablecolspace to the width of each template entry.
% If the user has set preamble in terms of percent of \hsize we will use that dimension as the width of the column, and the \leftskip will keep entries from bumping into each other. Table will start at \hsize\leftskip by \multitablecolspace after the first one.
% Make sure we don't inherit \rightskip from the outer environment.
% The first column will be indented with the surrounding text.
% In either case we will make \leftskip by \multitablecolspace:
% Ignoring space at the beginning and end avoids an occasional spurious blank line, when TeX decides to break the line at the space before the box from the multistrut, so the strut ends up on a line by itself.
% For example:
% @multitable @columnfractions .11 .89
% @item @code{#}
% @tab Legal holiday which is valid in major parts of the whole country.
% Is automatically provided with highlighting sequences respectively
% marking characters.
\noindent\ignorespaces##
\unskip\multistrut
\cr
\def\Emultitable{%
\crcr
\egroup % end the \halign
\global\setpercentfalse
}
\def\setmultitablespacing{%
\def\multistrut{\strut}% just use the standard line spacing
%
% Compute \multitablelinespace (if not defined by user) for use in
% \multitableparskip calculation. We used define \multistrut based on
% this, but (ironically) that caused the spacing to be off.
% See bug-texinfo report from Werner Lemberg, 31 Oct 2004 12:52:20 +0100.
\ifdim\multitablelinespace=0pt
\setbox0=vbox(X)\global\multitablelinespace=\the\baselineskip
\global\advance\multitablelinespace by-\ht0
\fi
% Test to see if parskip is larger than space between lines of
% table. If not, do nothing.
% If so, set to same dimension as multitablelinespace.
\ifdim\multitableparskip>\multitablelinespace
\global\multitableparskip=\multitablelinespace
\global\advance\multitableparskip-7pt % to keep parskip somewhat smaller
% than skip between lines in the table.
\fi%
\ifdim\multitableparskip=0pt
\global\multitableparskip=\multitablelinespace
\global\advance\multitableparskip-7pt % to keep parskip somewhat smaller
% than skip between lines in the table.
\fi
message{conditionals,}
%
% @ifex, @ifnotdocbook, @ifnothtml, @ifnotinfo, @ifnotplaintext,
% @ifnotxml always succeed. They currently do nothing; we don't
% attempt to check whether the conditionals are properly nested. But we
% have to remember that they are conditionals, so that @end doesn't
% attempt to close an environment group.
\catcode\_ = 11 % We want to use \_STOP_ which cannot appear in texinfo source.
\obeylines %
\def\dodoignore#1{%
% #1 contains the command name as a string, e.g., `ifinfo'.
% Define a command to find the next `@end #1'.
\long\def\doignoretext##1^^M@end #1{%
 \doignoretextyyy##1^^M@#1\_STOP_}%
%
% And this command to find another #1 command, at the beginning of a
% line. (Otherwise, we would consider a line `@c @ifset', for
% example, to count as an @ifset for nesting.)
\long\def\doignoretextyyy##1^^M@##2\_STOP_\{\doignoreyyy{##2}\_STOP_\}%
%
% And now expand that command.
\doignoretext ^^M%
}%
}

\def\doignoreyyy#1{%
\def\temp{#1}%
\ifx\temp\empty		% Nothing found.
 \let\next\doignoretextzzz
\else% Found a nested condition, ...
 \advance\doignorecount by 1
 \let\next\doignoretextyyy% ..., look for another.
 \% If we're here, #1 ends with ^^M\ifinfo (for example).
 \fi
 \next #1% the token \_STOP_ is present just after this macro.
}

% We have to swallow the remaining "\_STOP_".
%
\def\doignoretextzzz#1{%
\ifnum\doignorecount = 0% We have just found the outermost @end.
 \let\next\enddoinoignore
\else% Still inside a nested condition.
 \advance\doignorecount by -1
 \let\next\doignoretext% Look for the next @end.
 \fi
 \next
}

% Finish off ignored text.
{ \obeylines%
% Ignore anything after the last `@end #1'; this matters in verbatim
% environments, where otherwise the newline after an ignored conditional
% would result in a blank line in the output.
\gdef\enddoignore#1^^M{\endgroup\ignorespaces}%

% @set VAR sets the variable VAR to an empty value.
% @set VAR REST-OF-LINE sets VAR to the value REST-OF-LINE.
%
% Since we want to separate VAR from REST-OF-LINE (which might be
% empty), we can't just use \parsearg; we have to insert a space of our
% own to delimit the rest of the line, and then take it out again if we
% didn't need it.
% We rely on the fact that \parsearg sets \catcode`\ =10.
%
\parsearg\gdef\set{\setyyy#1 \endsetyyy}
\def\setyyy#1 #2\endsetyyy{%
  % \makevalueexpandable
  \def\temp[#2]{% \
  \edef\next{\gdef\makecsname{SET#1}}%
  \ifx\temp\empty
    \next{}%
  \else
    \setzzz#2\endsetzzz
  \fi
} % Remove the trailing space \setxxx inserted.
\def\setzzz#1 \endsetzzz{\next{#1}}

% @clear VAR clears (i.e., unsets) the variable VAR.
%
\parsearg\gdef\clear{%
  % \makevalueexpandable
  \global\expandafter\let\csname SET#1\endcsname=\relax
} %

% @value{foo} gets the text saved in variable foo.
\def\value{\begingroup\makevalueexpandable\valuexxx}
\def\valuexxx#1{\expandablevalue{#1}\endgroup}
{\catcode`\- = \active \catcode`\_ = \active
% \gdef\makevalueexpandable{%
\let\value = \expandablevalue
% We don't want these characters active, ...
\catcode`- = \other \catcode`_ = \other
% ..., but we might end up with active ones in the argument if
% we're called from @code, as @code{@value{foo-bar_}}, though.
% So \let them to their normal equivalents.
\let-\normaldash \let-_normalunderscore

% We have this subroutine so that we can handle at least some @value's
% properly in indexes (we call \makevalueexpandable in \indexdummies).
% The command has to be fully expandable (if the variable is set), since
% the result winds up in the index file. This means that if the
% variable's value contains other Texinfo commands, it's almost certain
% it will fail (although perhaps we could fix that with sufficient work
% to do a one-level expansion on the result, instead of complete).
%
def\expandablevalue#1{%
\expandafter\ifx\csname SET#1\endcsname\relax
{[No value for ``#1'']}%
\message{Variable `#1', used in @value, is not set.}%
\else
\csname SET#1\endcsname
\fi
}

% @ifset VAR ... @end ifset reads the `...' iff VAR has been defined
% with @set.
%
% To get special treatment of `@end ifset,' call \makeond and the redefine.
%
def\makecond{ifset}
def\ifset{\parsearg{\doifset{\let\next=\ifsetfail}}}
def\doifset#1#2{%
{\makevalueexpandable
\let\next=\empty
\expandafter\ifx\csname SET#2\endcsname\relax
#1% If not set, redefine \next.
\fi
\expandafter
\next
}
def\ifsetfail{\doignore{ifset}}

% @ifclear VAR ... @end executes the `...' iff VAR has never been
% defined with @set, or has been undefined with @clear.
% The `else` inside the `doifset` parameter is a trick to reuse the
% above code: if the variable is not set, do nothing, if it is set,
% then redefine `next` to `ifclearfail`.
%
\makecond{ifclear}
\def\ifclear{\parsearg{\doifset{\else \let\next=\ifclearfail}}} 
\def\ifclearfail{\doignore{ifclear}}
%
% @ifcommandisdefined CMD ... @end executes the `...' if CMD (written
% without the @) is in fact defined. We can only feasibly check at the
% TeX level, so something like `mathcode` is going to considered
% defined even though it is not a Texinfo command.
%
\makecond{ifcommanddefined}
\def\ifcommanddefined{\parsearg{\doifcmddefined{\let\next=\ifcmddefinedfail}}} 
%
\def\doifcmddefined#1#2{[ %
\makevalueexpandable
\let\next=\empty
\expandafter\if\csname #2\endcsname\relax
  #1% If not defined, \let\next as above.
\fi
\expandafter
}\next
}
\def\ifcmddefinedfail{\doignore{ifcommanddefined}}
%
% @ifcommandnotdefined CMD ... handled similar to @ifclear above.
\makecond{ifcommandnotdefined}
\def\ifcommandnotdefined{%
\parsearg{\doifcmddefined{\else \let\next=\ifcmdnotdefinedfail}}} 
\def\ifcmdnotdefinedfail{\doignore{ifcommandnotdefined}}
%
% Set the `txicommandconditionals` variable, so documents have a way to
% test if the @ifcommand...defined conditionals are available.
\set txicommandconditionals
%
% @dircategory CATEGORY  -- specify a category of the dir file
% which this file should belong to. Ignore this in TeX.
\let\dircategory=\comment
%
% @defininfoenclose.
\let\defininfoenclose=\comment
%
\message{indexing,}
% Index generation facilities
% Define \newwrite to be identical to plain tex's \newwrite
% except not \outer, so it can be used within macros and if's.
def\newwrite{\makecsname{ptexnewwrite}}

% \newindex {foo} defines an index named foo.
% It automatically defines \fooindex such that
% \fooindex ...rest of line... puts an entry in the index foo.
% It also defines \fooindfile to be the number of the output channel for
% the file that accumulates this index. The file's extension is foo.
% The name of an index should be no more than 2 characters long
% for the sake of vms.
%
def\newindex#1{%
\iflinks
\expandafter\newwrite \csname#1indfile\endcsname
\openout \csname#1indfile\endcsname \jobname.#1 % Open the file
\fi
\expandafter\xdef\csname#1index\endcsname{%     % Define @#1index
\noexpand\doindex{#1}}%
\noexpand\doindex{#1}}%
%
% @defindex foo  ==  \newindex{foo}
%
def\defindex{%parsearg\newindex}

% Define @defcodeindex, like @defindex except put all entries in @code.
%
def\defcodeindex{%parsearg\newcodeindex}

% \newcodeindex makes an index for foo
% \def\newcodeindex{\parsearg\newcodeindex}
% %
def\newcodeindex#1{%
\iflinks
\expandafter\newwrite \csname#1indfile\endcsname
\openout \csname#1indfile\endcsname \jobname.#1 % Open the file
\fi
\expandafter\xdef\csname#1index\endcsname{%     % Define @#1index
\noexpand\docodeindex{#1}}%
\noexpand\docodeindex{#1}}%
%
% @synindex foo bar    makes index foo feed into index bar.
% Do this instead of @defindex foo if you don't want it as a separate index.
%
def\synindex#1 #2 {
\dosynindex\doindex{#1}{#2}}

def\syncodeindex#1 #2 {
\dosynindex\docodeindex{#1}{#2}}
% #1 is \doindex or \docodeindex, #2 the index getting redefined (foo),
% #3 the target index (bar).
def\dosynindex#1#2#3{%
% Only do \closeout if we haven't already done it, else we'll end up
% closing the target index.
\expandafter{\ifx\csname donesynindex#2\endcsname \relax
% The \closeout helps reduce unnecessary open files; the limit on the
% Acorn RISC OS is a mere 16 files.
\expandafter{\closeout\csname#2indfile\endcsname
\expandafter{\let\csname donesynindex#2\endcsname = 1
\fi
% redefine \fooindfile:
\expandafter{\let\expandafter{\temp=\csname#3indfile\endcsname
\expandafter{\let\csname#2indfile\endcsname=\temp
\expandafter{\newindex:\expandafter{\xdef\csname#2index\endcsname={\noexpand#1{#3}}%}
%
% Define \doindex, the driver for all \fooindex macros.
% Argument #1 is generated by the calling \fooindex macro,
% and it is "foo", the name of the index.
% \doindex just uses \parsearg; it calls \doind for the actual work.
% This is because \doind is more useful to call from other macros.
%
% There is also \dosubind \{index\} \{topic\} \{subtopic\}
% which makes an entry in a two-level index such as the operation index.
Def\doiindex#1{
def\indexname{#1}\parsearg\singleindexer}
def\singleindexer #1{\doind\indexname{#1}}
%
% like the previous two, but they put @code around the argument.
\def\docodeindex#1{
def\indexname{#1}\parsearg\singlecodeindexer}
def\singlecodeindexer #1{\doind\indexname{\code{#1}}}
%
% Take care of Texinfo commands that can appear in an index entry.
% Since there are some commands we want to expand, and others we don't,
% we have to laboriously prevent expansion for those that we don't.
%
def\indexdummies{%
\escapechar = `\  % use backslash in output files.
def@ (@ @) change to @@ when we switch to @ as escape char in index files.
def\realbackslash space }%
%
% Need these unexpandable (because we define \tt as a dummy)
% definitions when @ { or @ } appear in index entry text.  Also, more
% complicated, when \tex is in effect and \{ is a \delimiter again.
We can't use \bracecmd and \bracecmd because texindex assumes braces and backslashes are used only as delimiters. Perhaps we should define @brace and @brace commands a la @comma.
\def\{{{{\tt\char123}}}%
\def\}{{{\tt\char125}}}%

I don't entirely understand this, but when an index entry is generated from a macro call, the \endinput which \scanmacro inserts causes processing to be prematurely terminated. This is, apparently, because \indexsorttmp is fully expanded, and \endinput is an expandable command. The redefinition below makes \endinput disappear altogether for that purpose -- although logging shows that processing continues to some further point. On the other hand, it seems \endinput does not hurt in the printed index arg, since that is still getting written without apparent harm.

Sample source (mac-idx3.tex, reported by Graham Percival to help-texinfo, 22may06):
@macro funindex {WORD}
@findex xyz
@end macro
...
@funindex commtest

The above is not enough to reproduce the bug, but it gives the flavor.

Sample whatsit resulting:
%.@write3\entry{xyz}{@folio }{@code {xyz@endinput }}%

So:
\let\endinput = \empty
%
% Do the redefinitions.
\commondummies
%
For the aux and toc files, @ is the escape character. So we want to redefine everything using @ as the escape character (instead of \realbackslash, still used for index files). When everything uses @, this will be simpler.
\def\atdummies{%
\def@ (@ @ )%}
\let\{ = \braceatcmd
\let\} = \braceatcmd
%
% Do the redefinitions.
\commondummies
\otherbackslash
}

% Called from \indexdummies and \atdummies.
%
\def\commondummies{%
%
% \definedummyword defines \#1 as \string\#1\space, thus effectively
% preventing its expansion. This is used only for control words,
% not control letters, because the \space would be incorrect for
% control characters, but is needed to separate the control word
% from whatever follows.
%
% For control letters, we have \definedummyletter, which omits the
% space.
%
% These can be used both for control words that take an argument and
% those that do not. If it is followed by \{arg\} in the input, then
% that will dutifully get written to the index (or wherever).
%
\def\definedummyword ##1{\def##1{\string##1\space}}%
\def\definedummyletter##1{\def##1{\string##1}}%
\let\definedummyaccent\definedummyletter%
%
\commondummiesnofonts%
%
\definedummyletter\_%
\definedummyletter\-%
%
% Non-English letters.
\definedummyword\AA
\definedummyword\AE
\definedummyword\DH
\definedummyword\L
\definedummyword\O
\definedummyword\OE
\definedummyword\TH
\definedummyword\aa
\definedummyword\ae
\definedummyword\dh
\definedummyword\exclamdown
\definedummyword\l
\definedummyword\o
\definedummyword\oe
\definedummyword\ordf
\definedummyword\ordm
\definedummyword\questiondown
Although these internal commands shouldn't show up, sometimes they do.

\LaTeX
\TeX

Assorted special characters.

\arrow
\bullet
\comma
\copyright
\registered
\dots
\enddots
\entrybreak
\equiv
\error
\euro
\expansion
\geq
\guillemetleft
\guillemetright
\guilsinglleft
\guilsinglright
\lbrace
\leq
\minus
\ogonek
\pounds
\point
\print
\quotedblbase
\quotedblleft
\quotedblright
\quoteleft
\quoteright
\quotesinglbase
\rbrace

Open Source Used In Cisco D9800 Network Transport Receiver Version 3.75
% We want to disable all macros so that they are not expanded by \write.
% \macrolist
% \normalturnoffactive
% % Handle some cases of @value -- where it does not contain any % (non-fully-expandable) commands.
% \makevalueexpandable
{
% \commondummiesnofonts: common to \commondummies and \indexnofonts.
%
% \def\commondummiesnofonts{ %
% % Control letters and accents.
% \definedummyletter!%
% \definedummyaccent"%
% \definedummyaccent'%
% \definedummyletter*%
% \definedummyaccent,%
% \definedummyletter,%
% \definedummyletterV%
% \definedummyletter:%
% \definedummyaccent=%
% \definedummyletter?%
% \definedummyaccent^%
% \definedummyaccent`
% \definedummyaccent~
% \definedummyword\u
% \definedummyword\v
% \definedummyword\H
% \definedummyword\dotaccent
% \definedummyword\ogonek
% \definedummyword\ringaccent
% \definedummyword\tieaccent
% \definedummyword\ubaraccent
% \definedummyword\udotaccent
% \definedummyword\dotless
%
% % Texinfo font commands.
% \definedummyword\b
% \definedummyword\i
% \definedummyword\r
% \definedummyword\sansserif
% \definedummyword\sc
% \definedummyword\slanted

\definedummyword{t}
%
% Commands that take arguments.
\definedummyword{abbr}
\definedummyword{acronym}
\definedummyword{anchor}
\definedummyword{code}
\definedummyword{command}
\definedummyword{dfn}
\definedummyword{dmn}
\definedummyword{email}
\definedummyword{emph}
\definedummyword{env}
\definedummyword{file}
\definedummyword{image}
\definedummyword{indicateurl}
\definedummyword{inforef}
\definedummyword{kbd}
\definedummyword{key}
\definedummyword{math}
\definedummyword{option}
\definedummyword{pxref}
\definedummyword{ref}
\definedummyword{samp}
\definedummyword{strong}
\definedummyword{tie}
\definedummyword{uref}
\definedummyword{url}
\definedummyword{var}
\definedummyword{verb}
\definedummyword{w}
\definedummyword{xref}
}

% \indexnofonts is used when outputting the strings to sort the index
% by, and when constructing control sequence names. It eliminates all
% control sequences and just writes whatever the best ASCII sort string
% would be for a given command (usually its argument).
%
\def\indexnofonts{} %
% Accent commands should become @asis.
\def\definedummyaccent##1{\let##1\asis} %
% We can just ignore other control letters.
\def\definedummyletter##1{\let##1\empty} %
% All control words become @asis by default; overrides below.
\let\definedummyword\definedummyaccent
%
% Don't no-op \tt, since it isn't a user-level command
% and is used in the definitions of the active chars like <, >, |, etc.
% Likewise with the other plain tex font commands.
\def\tt=\asis
%
\def\{ {}
\def\@{@}
\def\_\normalunderscore
\def\-{}
%
% Unfortunately, texindex is not prepared to handle braces in the
% content at all. So for index sorting, we map @{ and @} to strings
% starting with |, since that ASCII character is between ASCII { and }.
\def\{|{a}
\def\bracechar{|a}
%
\def\}|{b}
\def\bracechar{|b}
%
% Non-English letters.
\def\AA{AA}
\def\AE{AE}
\def\DH{DZZ}
\def\L{L}
\def\OE{OE}
\def\O{O}
\def\TH{ZZZ}
\def\aa{aa}
\def\ae{ae}
\def\dh{dzz}
\def\exclamdown{!}
\def\I{1}
\def\oe{oe}
\def\ordf{a}
\def\ordm{o}
\def\o{o}
\def\questiondown{?}
\def\ss{ss}
\def\th{zzz}
%
\def\LaTeX{LaTeX}
\def\TeX{TeX}
%
% Assorted special characters.
% (The following [] will end up in the sort string, but that's ok.)
\def\arrow{->}
\def\bullet{bullet} \def\comma{,} \def\copyright{copyright} \def\dots{...} \def\enddots{...} \def\equiv{==} \def\error{error} \def\euro{euro} \def\expansion{=>} \def\geq{>=} \def\guillemetleft{<<} \def\guillemetright{>>} \def\guilsinglleft{<} \def\guilsinglright{>} \def\leq{<=} \def\minus{-} \def\point{.} \def\pounds{pounds} \def\print{-|} \def\quotedblbase{"} \def\quotedblleft{"} \def\quotedblright{"} \def\quoteleft{'} \def\quoteright{'} \def\quotesinglbase{,} \def\registeredsymbol{R} \def\result{=>} \def\textdegree{o} 

\expandafter\ifx\csname SETtxiindexlquoteignore\endcsname\relax \else \indexlquoteignore \fi

{\catcode`\=\active

% We need to get rid of all macros, leaving only the arguments (if present).
% Of course this is not nearly correct, but it is the best we can do for now.
% makeinfo does not expand macros in the argument to @deffn, which ends up
% writing an index entry, and texindex isn't prepared for an index sort entry
% that starts with \.
%
% Since macro invocations are followed by braces, we can just redefine them
% to take a single TeX argument. The case of a macro invocation that
% goes to end-of-line is not handled.
%
\macrolist
}

% Undocumented (for FSFS 2nd ed.): @set txiindexlquoteignore makes us
% ignore left quotes in the sort term.
{\catcode`\=\active

\catcode`\=\active
\gdef\indexquoteignore{\let\textquoteleft=\empty}
\let\indexbackslash=0 % overridden during \printindex.
\let\SETmarginindex=\relax % put index entries in margin (undocumented)?

% Most index entries go through here, but \dosubind is the general case.
% #1 is the index name, #2 is the entry text.
\def\doind#1#2{\dosubind{#1}{#2}{}

% Workhorse for all \fooindexes.
% #1 is name of index, #2 is stuff to put there, #3 is subentry --
% empty if called from \doind, as we usually are (the main exception
% is with most defuns, which call us directly).
%
\def\dosubind#1#2#3{%
\iflinks
{%
% Store the main index entry text (including the third arg).
\toks0 = {#2}%
% If third arg is present, precede it with a space.
\edef\thirdarg{#3}%
\ifx\thirdarg\empty \else
 \toks0 = \expandafter{\the\toks0 \space #3}%
\fi
%
% Write the entry in \toks0 to the index file:
%
\dosubindwrite{%
% Put the index entry in the margin if desired.
\ifx\SETmarginindex\relax\else
 \insert\margin\hbox{\vrule height8pt depth3pt width0pt \the\toks0} %
\fi
%
% Remember, we are within a group.
\indexdummies % Must do this here, since \bf, etc expand at this stage
\def\backslashcurfont{\indexbackslash}% \indexbackslash isn't defined now
% so it will be output as is; and it will print as backslash.
%
% Process the index entry with all font commands turned off, to
% get the string to sort by.
\indexnofonts
\edef\temp{\the\toks0}% need full expansion
\edef\indexsorttmp{\temp}%
%
% Set up the complete index entry, with both the sort key and
% the original text, including any font commands. We write
% three arguments to \entry to the .?? file (four in the
% subentry case), texindex reduces to two when writing the .??s
% sorted result.
\edef\temp{%
\write\writeto{%
\string\entry{\indexsorttmp}{\noexpand\folio}{\the\toks0}}%
}%
\temp%
%
% Take care of unwanted page breaks/skips around a whatsit:
%
% If a skip is the last thing on the list now, preserve it
% by backing up by \lastskip, doing the \write, then inserting
% the skip again. Otherwise, the whatsit generated by the
% \write or \pdfdest will make \lastskip zero. The result is that
% sequences like this:
% @end defun
% @tindex whatever
% @defun ...
% will have extra space inserted, because the \medbreak in the
% start of the @defun won’t see the skip inserted by the @end of
% the previous defun.
%
% But don’t do any of this if we’re not in vertical mode. We
% don’t want to do a \vskip and prematurely end a paragraph.
%
% Avoid page breaks due to these extra skips, too.
%
% But wait, there is a catch there:
% We’ll have to check whether \lastskip is zero skip. \ifdim is not
% sufficient for this purpose, as it ignores stretch and shrink parts
% of the skip. The only way seems to be to check the textual
% representation of the skip.
%
% The following is almost like \def\zeroskipmacro{0.0pt} except that
% the ``p” and ``t” characters have catcode `other, not 11 (letter).
%
\edef\zeroskipmacro{\expandafter\the\csname z@skip\endcsname}
%
\newskip\whatsitskip
\newcount\whatsitpenalty
\sf\safewhatsit#1{\ifhmode
#1\else
% \lastskip and \lastpenalty cannot both be nonzero simultaneously.
\whatsitskip = \lastskip
\edef\lastskipmacro{\the\lastskip}\%
\whatsitpenalty = \lastpenalty
%
% If \lastskip is nonzero, that means the last item was a
% skip. And since a skip is discardable, that means this
% \-\whatsitskip glue we're inserting is preceded by a
% non-discardable item, therefore it is not a potential
% breakpoint, therefore no \nobreak needed.
\ifx\lastskipmacro\zeroskipmacro
\else
\vskip-\whatsitskip
\fi
%
% \ifx\lastskipmacro\zeroskipmacro
% If \lastskip was zero, perhaps the last item was a penalty, and
% perhaps it was >=10000, e.g., a \nobreak. In that case, we want
% to re-insert the same penalty (values >10000 are used for various
% signals); since we just inserted a non-discardable item, any
% following glue (such as a \parskip) would be a breakpoint. For example:
% @deffn deffn-whatever
% @vindex index-whatever
% Description.
% would allow a break between the index-whatever whatsit
% and the "Description." paragraph.
\ifnum\whatsitpenalty>9999 \penalty\whatsitpenalty \fi
\else
% On the other hand, if we had a nonzero \lastskip,
% this make-up glue would be preceded by a non-discardable item
% (the whatsit from the \write), so we must insert a \nobreak.
\nobreak\vskip\whatsitskip
\fi
\fi}

% The index entry written in the file actually looks like
% \entry {sortstring} {page} {topic}
% or
% \entry {sortstring} {page} {topic} {subtopic}
% The texindex program reads in these files and writes files
% containing these kinds of lines:
% \initial {c}
% before the first topic whose initial is c
% \entry {topic}{pagelist}
% for a topic that is used without subtopics
% \primary {topic}
% for the beginning of a topic that is used with subtopics
% \secondary {subtopic}{pagelist}
% for each subtopic.

% Define the user-accessible indexing commands
% @findex, @vindex, @kindex, @cindex.

\def\findex \fnindex
\def\kindex \kyindex
\def\cindex \cpindex
\def\vindex \vrindex
\def\tindex \tpindex
\def\pindex \pgindex

\def\cindexsub \begingroup\obeylines\cindexsub
  \obeylines %
\gdef\cindexsub "#1" #2^^M\endgroup %
\dosubind{cp}{#2}{#1}}

% Define the macros used in formatting output of the sorted index material.

% @printindex causes a particular index (the ??s file) to get printed.
% It does not print any chapter heading (usually an @unnumbered).
% \parseargdef\printindex\begingroup
  \dobreak \chapheadingskip{10000} %
  \smallfonts \rm
  \tolerance = 9500
  \plainfrenchspacing
  \everypar = {} % don't want the \kern\parindent from indentation suppression.
%
% See if the index file exists and is nonempty.
% Change catcode of @ here so that if the index file contains
% \initial { @ }
% as its first line, TeX doesn't complain about mismatched braces
% (because it thinks @ ) is a control sequence.
% catcode\@ = 11
\openin 1 \jobname.#1s
\ifeof 1
\% enddoubelcolumns gets confused if there is no text in the index,
% and it loses the chapter title and the aux file entries for the
% index. The easiest way to prevent this problem is to make sure
% there is some text.
\putwordIndexNonexistent
\else
  
  % If the index file exists but is empty, then \openin leaves \ifeof
  % false. We have to make TeX try to read something from the file, so
  % it can discover if there is anything in it.
  \read 1 to \temp
  \ifeof 1
    \putwordIndexIsEmpty
  \else
    
    % Index files are almost Texinfo source, but we use \ as the escape
    % character. It would be better to use @, but that's too big a change
    % to make right now.
    \def\indexbackslash{\backslash\curfont}\%
    \catcode`\\ = 0
    \escapechar = `\%
  \begindoublecolumns
  \input \jobname.#1s
  \enddoublecolumns
  
  \fi
  \fi
\closein 1
\endgroup

% These macros are used by the sorted index file itself.
% Change them to control the appearance of the index.

\def\initial#1{{

% Some minor font changes for the special characters.
\let\tentt=\sectt \let\ttt=\sectt \let\sf=\sectt
%
% Remove any glue we may have, we'll be inserting our own.
\removelastskip
%
% We like breaks before the index initials, so insert a bonus.
\nobreak
\vskip 0pt plus 3\baselineskip
\penalty 0
\vskip 0pt plus -3\baselineskip
%
% Typeset the initial. Making this add up to a whole number of
% baselineskips increases the chance of the dots lining up from column
% to column. It still won't often be perfect, because of the stretch
% we need before each entry, but it's better.
%
% No shrink because it confuses \balancecolumns.
\vskip 1.67\baselineskip
\leftline{secbf #1}%
% Do our best not to break after the initial.
\nobreak
\vskip .33\baselineskip plus .1\baselineskip
}%
\entry typesets a paragraph consisting of the text (#1), dot leaders, and
% then page number (#2) flushed to the right margin. It is used for index
% and table of contents entries. The paragraph is indented by \leftskip.
%
% A straightforward implementation would start like this:
%\def\entry#1#2{...
% But this freezes the catcodes in the argument, and can cause problems to
% @code, which sets - active. This problem was fixed by a kludge---
% `~` was active throughout whole index, but this isn't really right.
% The right solution is to prevent \entry from swallowing the whole text.
% --kasal, 21nov03
\def\entry{%
\begingroup
%
% Start a new paragraph if necessary, so our assignments below can’t
% affect previous text.
\par%
%
% Do not fill out the last line with white space.
\parfillskip = 0in%
%
% No extra space above this paragraph.
\parskip = 0in%
%
% Do not prefer a separate line ending with a hyphen to fewer lines.
\finalhyphendemerits = 0%
%
% \hangindent is only relevant when the entry text and page number
% don’t both fit on one line. In that case, bob suggests starting the
% dots pretty far over on the line. Unfortunately, a large
% indentation looks wrong when the entry text itself is broken across
% lines. So we use a small indentation and put up with long leaders.
%
% \hangafter is reset to 1 (which is the value we want) at the start
% of each paragraph, so we need not do anything with that.
\hangindent = 2em%
%
% When the entry text needs to be broken, just fill out the first line
% with blank space.
\rightskip = 0pt plus 1fil
%
\global\setbox\partialpage = \vbox{%
  % Unvbox the main output page.
  \unvbox\PAGE
  \kern-\topskip \kern\baselineskip
}%
%
\eject % run that output routine to set \partialpage
%
% Use the double-column output routine for subsequent pages.
\output = {\doublecolumnout}%
%
% Change the page size parameters. We could do this once outside this
% routine, in each of @smallbook, @fourpaper, and the default 8.5x11
% format, but then we repeat the same computation. Repeating a couple
% of assignments once per index is clearly meaningless for the
% execution time, so we may as well do it in one place.
%
% First we halve the line length, less a little for the gutter between
% the columns. We compute the gutter based on the line length, so it
% changes automatically with the paper format. The magic constant
% below is chosen so that the gutter has the same value (well, +<1pt)
% as it did when we hard-coded it.
%
% We put the result in a separate register, \doublecolumnhsize, so we
% can restore it in \pagesofar, after \hsize itself has (potentially)
% been clobbered.
%
\doublecolumnhsize = \hsize
  \advance\doublecolumnhsize by -.04154\hsize
  \divide\doublecolumnhsize by 2
\hsize = \doublecolumnhsize
%
% Double the \vsize as well. (We don't need a separate register here,
% since nobody clobbers \vsize.)
\vsize = 2\vsize
}
%
% The double-column output routine for all double-column pages except
% the last.
%
\def\doublecolumnout{%
  \splitopskip=\opskip \splitmaxdepth=\maxdepth
  \% Get the available space for the double columns -- the normal
  \% (undoubled) page height minus any material left over from the
  \% previous page.
  \dimen@ = \vsize
  \divide\dimen@ by 2
  \advance\dimen@ by -\ht\partialpage
\output = {%
  \% Split the last of the double-column material. Leave it on the
  \% current page, no automatic page break.
  \balancecolumns
  \%
  \% If we end up splitting too much material for the current page,
  \% though, there will be another page break right after this \output
  \% invocation ends. Having called \balancecolumns once, we do not
  \% want to call it again. Therefore, reset \output to its normal
  \% definition right away. (We hope \balancecolumns will never be
  \% called on to balance too much material, but if it is, this makes
  \% the output somewhat more palatable.)
  \global\output = {\onepageout{\pagecontents\PAGE}}%}
\eject
\endgroup % started in \begindoublecolumns
%
% \pagegoal was set to the doubled \vsize above, since we restarted
% the current page. We're now back to normal single-column
% typesetting, so reset \pagegoal to the normal \vsize (after the
% \endgroup where \vsize got restored).
\pagegoal = \vsize
%
% Called at the end of the double column material.
\def\balancecolumns{%
  \setbox0 = \vbox{\unvbox255} \% like \box255 but more efficient, see p.120.
  \dimen@ = \ht0
  \advice\dimen@ by \topskip
  \advice\dimen@ by-\baselineskip
  \divide\dimen@ by 2 \% target to split to
  \%debug\message{final 2-column material height=\the\ht0, target=\the\dimen@.}%
  \splittopskip = \topskip
  \% Loop until we get a decent breakpoint.
  \%
  \vbadness = 10000
  \loop
    \global\setbox3 = \copy0
    \global\setbox1 = \vsplit3 to \dimen@
    \divide\dimen@ by \dimen@
    \global\advise\dimen@ by 1pt
    \repeat
  \%
  \%debug\message{split to \the\dimen@, column heights: \the\ht1, \the\ht3.}%
  \setbox0=\vbox to\dimen@{\unvbox1}\%
  \setbox2=\vbox to\dimen@{\unvbox3}\%
%
  \pagesofar
\catcode`\@ = \other

\message{sectioning,}
% Chapters, sections, etc.

% Let's start with @part.
\outer\parseargdef\part{\partzzz{#1}}
\def\partzzz#1{%
  \chapoddpage
  \null
  \vskip.3\vsize % move it down on the page a bit
  \begingroup
    \noindent \titlefonts\rmisbold #1\par % the text
    \let\lastnode=\empty % no node to associate with
    \writetocentry{part}{#1}{}% but put it in the toc
    \headingsoff % no headline or footline on the part page
  \chapoddpage
  \endgroup
}

% \unnumberedno is an oxymoron. But we count the unnumbered
% sections so that we can refer to them unambiguously in the pdf
% outlines by their "section number". We avoid collisions with chapter
% numbers by starting them at 10000. (If a document ever has 10000
% chapters, we’re in trouble anyway, I’m sure.)
\newcount\unnumberedno \unnumberedno = 10000
\newcount\chapno
\newcount\secno \secno=0
\newcount\subsecno \subsecno=0
\newcount\subsubsecno \subsubsecno=0

% This counter is funny since it counts through charcodes of letters A, B, ...
\newcount\appendixno \appendixno = `\@
%
% \def\appendixletter{\char\the\appendixno}
% We do the following ugly conditional instead of the above simple
% construct for the sake of pdftex, which needs the actual
% letter in the expansion, not just typeset.
%
% \def\appendixletter{%
  \ifnum\appendixno=A A%
  \else\ifnum\appendixno=B B%
  \else\ifnum\appendixno=C C%
  \else\ifnum\appendixno=D D%
  \else\ifnum\appendixno=E E%
  \else\ifnum\appendixno=F F%

% The \the is necessary, despite appearances, because \appendixletter is expanded while writing the .toc file. \char\appendixno is not expandable, thus it is written literally, thus all appendixes come out with the same letter (or @) in the toc without it.
% Each @chapter defines these (using marks) as the number+name, number and name of the chapter. Page headings and footings can use these. @section does likewise.
\def\thischapter{} \def\thischapternum{} \def\thischaptername{} \def\thissection{} \def\thissectionnum{} \def\thissectionname{} 

\newcount\absseclevel \newcount\secbase \secbase=0 % @raisesections/@lowersections modify this count

% @raisesections: treat @section as chapter, @subsection as section, etc.
\def\raisesections{\letup=raisesections \let\up=raisesections % original BFox name
% @lowersections: treat @chapter as section, @section as subsection, etc.
\def\lowersections{\letdown=lowersections \let\down=lowersections % original BFox name

\else ifnum\appendixno=`G G% 
\else ifnum\appendixno=`H H% 
\else ifnum\appendixno=`I I% 
\else ifnum\appendixno=`J J% 
\else ifnum\appendixno=`K K% 
\else ifnum\appendixno=`L L% 
\else ifnum\appendixno=`M M% 
\else ifnum\appendixno=`N N% 
\else ifnum\appendixno=`O O% 
\else ifnum\appendixno=`P P% 
\else ifnum\appendixno=`Q Q% 
\else ifnum\appendixno=`R R% 
\else ifnum\appendixno=`S S% 
\else ifnum\appendixno=`T T% 
\else ifnum\appendixno=`U U% 
\else ifnum\appendixno=`V V% 
\else ifnum\appendixno=`W W% 
\else ifnum\appendixno=`X X% 
\else ifnum\appendixno=`Y Y% 
\else ifnum\appendixno=`Z Z%
% we only have subsub.
\chardef\maxsecelevel = 3
%
% A numbered section within an unnumbered changes to unnumbered too.
% To achieve this, remember the "biggest" unnum. sec. we are currently in:
\chardef\unnlevel = \maxsecelevel
%
% Trace whether the current chapter is an appendix or not:
% \chapheadtype is "N" or "A", unnumbered chapters are ignored.
\def\chapheadtype {N}
%
% Choose a heading macro
% #1 is heading type
% #2 is heading level
% #3 is text for heading
\def\genhead#1#2#3{%
% Compute the abs. sec. level:
\abssecelevel=#2
% advance\abssecelevel by \secbase
% Make sure \abssecelevel doesn't fall outside the range:
\ifeval{\abssecelevel < 0}{\abssecelevel = 0}{\ifnum\abssecelevel > 3{\abssecelevel = 3}{}}
\fi
\fi
% The heading type:
\def\headtype{#1}%
\ifverbatim\headtype U%
\ifnum\abssecelevel < \unnlevel
\chardef\unnlevel = \abssecelevel
\fi
\else
% Check for appendix sections:
\ifeval{\abssecelevel = 0}{\def\chapheadtype{\headtype}}{\ifverbatim\headtype A\if\chapheadtype N%
\errmessage{@appendix... within a non-appendix chapter}%
\fi\fi
\fi
% Check for numbered within unnumbered:
\ifeval{\abssecelevel > \unnlevel}{\def\headtype{U}}{\chardef\unnlevel = 3}
% argument to \message. Therefore, if $#1$ contained @-commands, TeX
% expanded them. For example, in  `@unnumbered The @cite{Book}', TeX
% expanded @cite (which turns out to cause errors because \cite is meant
% to be executed, not expanded).
%
% Anyway, we don't want the fully-expanded definition of @cite to appear
% as a result of the \message, we just want `@cite' itself. We use
% the\<toks register> to achieve this: TeX expands \the\<toks> only once,
% simply yielding the contents of \<toks register>. (We also do this for
% the toc entries.)
\toks0 = {$#1$}%
\message{($(\the\toks0)$)}%  
\chapmacro{$#1$}{Ynothing}{\the\unnumberedno}%
%
\global\let\section = \unnumberedsec
\global\let\subsection = \unnumberedsubsec
\global\let\subsubsection = \unnumberedsubsubsec
}

% @centerchap is like @unnumbered, but the heading is centered.
\outer\parseargdef\centerchap{%
  % Well, we could do the following in a group, but that would break
  % an assumption that \chapmacro is called at the outermost level.
  % Thus we are safer this way:--kasal, 24feb04
  \let\centerparametersmaybe = \centerparameters
  \unnmhead0{$#1$}%
  \let\centerparametersmaybe = \relax
}

% @top is like @unnumbered.
\let\top\unnumbered

% Sections.
%
\outer\parseargdef\numberedsec{\numhead1{$#1$}} % normally calls seczzz
\def\seczzz{$#1$}{%  
  \global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
  \sectionheading{$#1$}{sec}{Ynumbered}{\the\chapno.\the\secno}%
  
  % normally calls appendixsectionzzzz:
  \outer\parseargdef\appendixsection{\apphead1{$#1$}}
  \def\appendixsectionzzzz{$#1$}{%  
    \global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
    \sectionheading{$#1$}{sec}{Yappendix}{\appendixletter.\the\secno}%
  }
  \let\appendixsec\appendixsection
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\def\Yappendixkeyword{Yappendix}
%
\def\chapmacro#1#2#3{%
% Insert the first mark before the heading break (see notes for \domark).
\let\prevchapterdefs=\lastchapterdefs
\let\prevsectiondefs=\lastsectiondefs
\gdef\lastsectiondefs{\gdef\thissectionname{} \gdef\thissectionnum{}}%
\gdef\thissection{}}%
%
\def\emptypage{#2}%
\if\emptypage\Ynothingkeyword
\gdef\lastchapterdefs{\gdef\thischaptername{#1} \gdef\thischapternum{}}%
\gdef\thischapter{\thischaptername}%
\else
\if\emptypage\Yomitfromtockeyword
\gdef\lastchapterdefs{\gdef\thischaptername{#1} \gdef\thischapternum{}}%
\gdef\thischapter{}}%
\else
\if\emptypage\Yappendixkeyword
\toks0={#1}\
\xdef\lastchapterdefs{\gdef\noexpand\thischaptername{\the\toks0} \gdef\noexpand\thischapternum{\appendixletter} %
% \noexpand\putwordAppendix avoids expanding indigestible
% commands in some of the translations.
\gdef\noexpand\thischapter{\noexpand\putwordAppendix{ } %
\noexpand\thischapternum: %
\noexpand\thischaptername{}}%}
\else
\toks0={#1}%
\xdef\lastchapterdefs{\gdef\noexpand\thischaptername{\the\toks0} \gdef\noexpand\thischapternum{\the\chapno} %
% \noexpand\putwordChapter avoids expanding indigestible
% commands in some of the translations.
\gdef\noexpand\thischapter{\noexpand\putwordChapter{ } %
\noexpand\thischapternum: %
\noexpand\thischaptername{}}%}
\fi
\fi
\fi
%
% Output the mark. Pass it through \safewhatsit, to take care of
% the preceding space.
\safewhatsit\domark
%
% Insert the chapter heading break.
\chapsepmacro
%
% Now the second mark, after the heading break. No break points
\let\prevchapterdefs=\lastchapterdefs
\let\prevsectiondefs=\lastsectiondefs
\domark
%
{%
\chapfonts \misbold
%
% Have to define \lastsection before calling \donoderef, because the
% xref code eventually uses it. On the other hand, it has to be called
% after \chapsepmacro, or the headline will change too soon.
\gdef\lastsection{#1}%
%
% Only insert the separating space if we have a chapter/appendix
% number, and don't print the unnumbered ``number''.
\ifx\temptype\Ynothingkeyword
\setbox0 = \hbox{ %
\def\toctype{unnchap} %
\else\ifx\temptype\Yomitfromtockeyword
\setbox0 = \hbox{ % contents like unnumbered, but no toc entry
\def\toctype{omit} %
\else\ifx\temptype\Yappendixkeyword
\setbox0 = \hbox{\putwordAppendix{} #3\enspace} %
\def\toctype{app} %
\else
\setbox0 = \hbox{#3\enspace} %
\def\toctype{numchap} %
\fi\fi\fi
%
% Write the toc entry for this chapter. Must come before the
% \donoderef, because we include the current node name in the toc
% entry, and \donoderef resets it to empty.
\writetocentry{\toctype}{#1}{#3} %
%
% For pdftex, we have to write out the node definition (aka, make
% the pdfdest) after any page break, but before the actual text has
% been typeset. If the destination for the pdf outline is after the
% text, then jumping from the outline may wind up with the text not
% being visible, for instance under high magnification.
\donoderef{#2} %
%
% Typeset the actual heading.
\nobreak % Avoid page breaks at the interline glue.
\vbox{\raggedtitlesettings \hangindent=\wd0 \centerparametersmaybe
\unhbox0 \#1\par} %
\nobreak
bigskip % no page break after a chapter title
\nobreak
\begin{center}

\begin{verbatim}
}  

% @centerchap -- centered and unnumbered.
\def\centerparametersmaybe = \relax
\def\centerparameters{% 
\advance\rightskip by 3\rightskip 
\leftskip = \rightskip 
\parfillskip = 0pt }

% I don't think this chapter style is supported any more, so I'm not 
% updating it with the new noderef stuff. We'll see. --karl, 11aug03. %
\def\setchapterstyle #1 {\csname CHAPF#1\endcsname }%
\def\unnchfopen #1{% 
\chapoddpage 
\vbox{\chapfonts \raggedtitlesettings #1\par} 
\nobreak\bigskip\nobreak 
}
\def\chfopen #1#2{\chapoddpage {\chapfonts
\vbox to 3in{\vfil \hbox to\hsize{\hfil #2} \hbox to\hsize{\hfil #1} \vfil}}\par
\penalty 5000 % 
}
\def\centerchfopen #1{\chapoddpage 
\vbox{\chapfonts \raggedtitlesettings \hfill #1\hfill} 
\nobreak\bigskip\nobreak 
}
\def\CHAPFopen{% 
\global\let\chapmacro=\chfopen 
\global\let\centerchapmacro=\centerchfopen 
}

% Section titles. These macros combine the section number parts and 
% call the generic \sectionheading to do the printing. %
\newskip\secheadingskip
\def\secheadingbreak{\dobreak \secheadingskip[-1000]}

% Subsection titles.
\newskip\subsecheadingskip
\def\subsecheadingbreak{\dobreak \subsecheadingskip[-500]}

% Subsubsection titles.
\def\subsubsecheadingbreak{\subsecheadingbreak}
\end{verbatim}
\end{center}

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% \noexpand\putwordSection avoids expanding indigestible
% commands in some of the translations.
\gdef\noexpand\thissection{\noexpand\putwordSection{ }
\noexpand\thissectionnum:
\noexpand\thissectionname}%
}

% Go into vertical mode. Usually we'll already be there, but we
% don't want the following whatsit to end up in a preceding paragraph
% if the document didn't happen to have a blank line.
\par
%
% Output the mark. Pass it through \safewhatsit, to take care of
% the preceding space.
\safewhatsit\domark
%
% Insert space above the heading.
\csname #2headingbreak\endcsname
%
% Now the second mark, after the heading break. No break points
% between here and the heading.
\let\prevsectiondefs=\lastsectiondefs
\domark
%
% Only insert the space after the number if we have a section number.
\ifx\emptytype\Ynothingkeyword
\setbox0 = \hbox{ } %
\def\toctype{unn} %
\gdef\lastsection{#1} %
\else\ifx\emptytype\Yomitfromtockeyword % for @headings -- no section number, don't include in toc,
% and don't redefine \lastsection.
\setbox0 = \hbox{ } %
\def\toctype{omit} %
\let\sectionlevel=\empty
\else\ifx\emptytype\Yappendixkeyword
\setbox0 = \hbox{#4\enspace} %
\def\toctype{app} %
\gdef\lastsection{#1} %
\else
\setbox0 = \hbox{#4\enspace} %
\def\toctype{num} %
\gdef\lastsection{#1} %
\fi\fi\fi
%
% Write the toc entry (before \donoderef). See comments in \chapmacro.
\writetocentry{\doctype\sectionlevel}{#1}{#4}\
% 
% Write the node reference (= pdf destination for pdffile).
% Again, see comments in \chapmacro.
% \donoderef{#3}\
%
% Interline glue will be inserted when the vbox is completed.
% That glue will be a valid breakpoint for the page, since it'll be
% preceded by a whatsit (usually from the \donoderef, or from the
% \writetocentry if there was no node).  We don't want to allow that
% break, since then the whatsits could end up on page n while the
% section is on page n+1, thus toc/etc. are wrong.  Debian bug 276000.
\nobreak
%
% Output the actual section heading.
\vbox{\hyphenpenalty=10000 \tolerance=5000 \parindent=0pt \ptexraggedright
\hangindent=\wd0 % zero if no section number
\unhbox0 #1}\
%
% Add extra space after the heading -- half of whatever came above it.
% Don't allow stretch, though.
\kern .5 \csname #2headingskip\endcsname
%
% Do not let the kern be a potential breakpoint, as it would be if it
% was followed by glue.
\nobreak
%
% We'll almost certainly start a paragraph next, so don't let that
% glue accumulate.  (Not a breakpoint because it's preceded by a
% discardable item.)  However, when a paragraph is not started next
% \(\text{\texttt{\textbackslash startdefun}}, \text{\texttt{\textbackslash cartouche}}, \text{\texttt{\textbackslash center}}, \text{\texttt{etc.}}\), this needs to be wiped out
% or the negative glue will cause weirdly wrong output, typically
% obscuring the section heading with something else.
\vskip-\parskip
%
% This is so the last item on the main vertical list is a known
% \penalty > 10000, so \texttt{\textbackslash startdefun}, etc., can recognize the situation
% and do the needful.
\penalty 10001
}

\message{toc,}
% Table of contents.
\newwrite\tocfile

% Write an entry to the toc file, opening it if necessary.
% Called from \chapter, etc.
Example usage: \writetocentry{sec}{Section Name}{\the\chapno.\the\secno}

We append the current node name (if any) and page number as additional arguments for the \{chap,sec,...\}entry macros which will eventually read this. The node name is used in the pdf outlines as the destination to jump to.

We open the .toc file for writing here instead of at @setfilename (or any other fixed time) so that @contents can be anywhere in the document. But if #1 is `omit', then we don't do anything. This is used for the table of contents chapter openings themselves.

\newif\iftocfileopened
\def\omitkeyword{omit}\
\def\writetocentry#1#2#3{\edef\writetoctype{#1}\ifx\writetoctype\omitkeyword \else\iftocfileopened\else\immediate\openout\tocfile = \jobname.toc \global\tocfileopenedtrue \fi\ifpdf \global\pdfmakepagedesttrue \fi\fi\else\edef\temp{\write\tocfile{@#1entry{#2}{#3}{\lastnode}{\noexpand\folio}}}\temp\fi\fi

\setkeys{pdf}{pdfmakepagedesttrue}

These characters do not print properly in the Computer Modern roman fonts, so we must take special care. This is more or less redundant with the Texinfo input format setup at the end of this file.
\catcode`$=\active
\catcode`\=\active
\catcode`\>=\active
\catcode`\\=\active
\catcode`\^=\active
\catcode`\_=\active
\catcode`\|=\active
\catcode`\~\=\active
\}

% Read the toc file, which is essentially Texinfo input.
\def\readtocfile{%
\setupdatafile
\activecatcodes
\input \tocreadfilename
}

\newskip\contentsrightmargin \contentsrightmargin=1in
\newcount\savepageno \lastnegativepageno = -1
% Prepare to read what we've written to \tocfile.
%
\def\startcontents#1{%
% If @setchapternewpage on, and @headings double, the contents should
% start on an odd page, unlike chapters. Thus, we maintain
% \contentalignmacro in parallel with \pagealignmacro.
% From: Torbjorn Granlund <tege@matematik.su.se>
\contentalignmacro
\immediate\closeout\tocfile
%
% Don't need to put `Contents' or `Short Contents' in the headline.
% It is abundantly clear what they are.
\chapmacro{#1}{Yomitfromtoc}{}%
%
% \savepageno = \pageno
\begingroup                  % Set up to handle contents files properly.
% Worry more about breakpoints than the bottom.
\advance\hsize by -\contentsrightmargin % Don't use the full line length.
%
% Roman numerals for page numbers.
\ifnum \pageno>0 \global\pageno = \lastnegativepageno \fi
%
% redefined for the two-volume lispref. We always output on
% \jobname.toc even if this is redefined.
%
% Normal (long) toc.
%
def\contents{%
%startcontents{\putwordTOC}%
\openin 1 \tocreadfilename\space
\ifeof 1 \else
\readtocfile
\fi
\vfill \eject
\contentsalignmacro % in case @setchapternewpage odd is in effect
\ifeof 1 \else
\pdfmakeoutlines
\fi
\closein 1
\endgroup
\lastnegativepageno = \pageno
\global\pageno = \savepageno
}
%
% And just the chapters.
def\summarycontents{%
%startcontents{\putwordShortTOC}%
%\let\partentry = \shortpartentry
\let\numchapentry = \shortchapentry
\let\appentry = \shortchapentry
\let\unnchapentry = \shortunnchapentry
% We want a true roman here for the page numbers.
\secfonts
\let\rm = \shortcontrm \let\bf = \shortcontbf
\let\sl = \shortcontsl \let\tt = \shortconttt
\rm
\hyphenpenalty = 10000
\advance\baselineskip by 1pt % Open it up a little.
def\numsecentry###1##2##3###4{}%def\numsecentry###1##2##3###4{}
\let\appsecentry = \numsecentry
\let\unnsecentry = \numsecentry
\let\numsubsecentry = \numsecentry
\let\appsubsecentry = \numsecentry
\let\unnsubsecentry = \numsecentry
\let\numsubsubsecentry = \numsecentry
\let\appsubsubsecentry = \numsecentry
\let\unnsubsubsecentry = \numsecentry
\openin 1 \tocreadfilename\space
\ifeof 1 \else
\readtocfile
% Chapters, in the short toc.
% See comments in \dochapentry re vbox and related settings.
\def\shortchapentry#1#2#3#4{%
  \tocentry{\shortchaplabel{#2}\labelspace #1}{\doshortpageno\bgroup#4\egroup}%
}
%
% Appendices, in the main contents.
% Need the word Appendix, and a fixed-size box.
%
\def\appendixbox#1{%
% We use M since it's probably the widest letter.
\setbox0 = \hbox{\putwordAppendix{} M}%
\hbox to \wd0{\putwordAppendix{} #1\hss}}%
%
\def\appentry#1#2#3#4{\dochapentry{\appendixbox{#2}\labelspace #1}{#4}}%
%
% Unnumbered chapters.
\def\unnchapentry#1#2#3#4{\dochapentry{#1}{#4}}%
\def\shortunnchapentry#1#2#3#4{\tocentry{#1}{\doshortpageno\bgroup#4\egroup}}%
%
% Sections.
\def\numsecentry#1#2#3#4{\dosecentry{#2\labelspace#1}{#4}}
\let\appsecentry=\numsecentry
\def\unnsecentry#1#2#3#4{\dosecentry{#1}{#4}}%
%
% Subsections.
\def\numsubsecentry#1#2#3#4{\dosubsecentry{#2\labelspace#1}{#4}}
\let\appsubsecentry=\numsubsecentry
\def\unnsubsecentry#1#2#3#4{\dosubsecentry{#1}{#4}}%
%
% And subsubsections.
\def\numsubsubsecentry#1#2#3#4{\dosubsubsecentry{#2\labelspace#1}{#4}}
\let\appsubsubsecentry=\numsubsubsecentry
\def\unnsubsubsecentry#1#2#3#4{\dosubsubsecentry{#1}{#4}}%
%
% This parameter controls the indentation of the various levels.
% Same as \defaultparindent.
\newdimen\tocindent \tocindent = 15pt
%
% Now for the actual typesetting. In all these, #1 is the text and #2 is the
% page number.
%
% If the toc has to be broken over pages, we want it to be at chapters
% if at all possible; hence the \penalty.
\def\docchapentry#1#2{%
  \penalty-300 \vskip1\baselineskip plus.33\baselineskip minus.25\baselineskip
  \begingroup

% ' is active in math mode (mathcode=8000). So reset it, and all our
% other math active characters (just in case), to plain's definitions.
\mathactive
%
\let\b=\ptexb
\let\bullet=\ptexbullet
\let\c=\ptexc
\let,=\ptexcomma
\let\.:=\ptexdot
\let\ldots=\ptexdots
\let\equiv=\ptexequiv
\let!=\ptexexclam
\let\i=\ptexi
\let\indent=\ptexindent
\let\noindent=\ptexnoindent
\let\{=\ptexbrace
\let\+=\tabalign
\let\}=\ptexrbrace
\let\/=\ptexslash
\let\*=\ptexstar
\let\text=\ptext
\expandafter\let\csname top\endcsname=\ptextop % outer
\let\frenchspacing=\plainfrenchspacing
%
\def\endldots{\mathinner{\ldots\ldots\ldots\ldots}}%
\def\enddots{\relax\ifmmode\endldots\else$\mathsurround=0pt \endldots$\fi}%
\def\@[@]{@}%
%
% There is no need to define \Etex.

% Define @lisp ... @end lisp.
% @lisp environment forms a group so it can rebind things,
% including the definition of @end lisp (which normally is erroneous).

% Amount to narrow the margins by for @lisp.
\newskip\lispnarrowing \lispnarrowing=0.4in

% This is the definition that ^\^M gets inside @lisp, @example, and other
% such environments. \null is better than a space, since it doesn't
% have any width.
\def\lisppar{\null\endgraf}

% This space is always present above and below environments.
\newskip\envskipamount \envskipamount = 0pt

% Make spacing and below environment symmetrical. We use \parskip here
% to help in doing that, since in @example-like environments \parskip
% is reset to zero; thus the \afterenvbreak inserts no space -- but the
% start of the next paragraph will insert \parskip.
%
\def\aboveenvbreak{\%
% =10000 instead of <10000 because of a special case in \itemzzz and
% \sectionheading, q.v.
%\ifnum \lastpenalty=10000 \else
%\advance\envskipamount by \parskip
%\endgraf
%\ifdim\lastskip<\envskipamount
%it's not a good place to break if the last penalty was \nobreak
%or better ...%\fi
%\ifnum\lastpenalty<10000 \penalty-50 \fi
\vskip\envskipamount
\fi
\fi
}}

\let\afterenvbreak = \aboveenvbreak

% \nonarrowing is a flag. If "set", @lisp etc don't narrow margins; it will
% also clear it, so that its embedded environments do the narrowing again.
\let\nonarrowing=\relax

% @cartouche ... @end cartouche: draw rectangle w/rounded corners around
% environment contents.
\font\circle=lcircle10
\newdimen\circthick
\newdimen\cartouter\newdimen\cartinner
\newskip\normbskip\newskip\normpskip\newskip\normlskip
\circthick=\fontdimen8\circle
%
\def\ctl{\{\circle\char'013\hskip -6pt\}} % 6pt from pl file: 1/2charwidth
\def\ctr{\{\hskip 6pt\circle\char'010\}}
\def\cbl{\{\circle\char'012\hskip -6pt\}}
\def\cbr{\{\hskip 6pt\circle\char'011\}}
\def\carttop{\hbox to \cartouter{\hskip\lskip
\ctl\leaders\hrule height\circthick\hfill\ctr

\etfleaders\hrule height\circthick\hfill\ctr}
% This macro is called at the beginning of all the @example variants, % inside a group.
\newdimen\nonfillparindent
\def\nonfillstart{\%
  \aboveenvbreak
  \hfuzz = 12pt % Don't be fussy
  \sepspaces % Make spaces be word-separators rather than space tokens.
  \let\par = \lisppar % don't ignore blank lines
  \obeylines % each line of input is a line of output
  \parskip = 0pt % Turn off paragraph indentation but redefine \indent to emulate
  % the normal \indent.
  \nonfillparindent=\parindent
  \parindent = 0pt
  \let\indent\nonfillindent
  %
  \emergencystretch = 0pt % don't try to avoid overfull boxes
  % @narrowing\relax % don't try to avoid overfull boxes
  \ifx\nonarrowing\relax
    \let\lispnarrowing=\relax
  \else
    \let\nonarrowing=\relax
  \fi
  \let\exdentamount=\lispnarrowing
  \else %
    \let\nonarrowing=\relax
  \fi
  %
  \let\exdent=\nofillexdent
}\%
\begingroup
\obeyspaces
\% We want to swallow spaces (but not other tokens) after the fake
% @indent in our nonfill-environments, where spaces are normally
% active and set to @tie, resulting in them not being ignored after
% @indent.
\gdef\nonfillindent{\futurelet\temp\nonfillindentcheck}%
\gdef\nonfillindentcheck{%
  \ifx\temp \%
  \else%
  \leavevmode
  \nonfillindentbox%
  \fi%
}\}%
\endgroup
\def\nonfillindentgobble#1{\nonfillindent}
\def\nonfillindentbox{\hbox to \nonfillparindent{\hss}}

% If you want all examples etc. small: @set dispenvsizelsmall.
% If you want even small examples the full size: @set dispenvsizenosmall.
% This affects the following displayed environments:
%    @example, @display, @format, @lisp
%    @smallexample, @smallformat, @smalllisp
\def\smallword{small}
\def\nosmallword{nsmall}
\let\SETdispenvsize\relax
\def\setnormaldispenv{\%}
\def\setsmalldispenv{\%}
\iffalse\SETdispenvsize\smallword
\else
\ifnum \lastpenalty=10000 \else \endgraf \fi
\smallexamplefonts \rm
\fi
\fi
\def\setsmalldispenv{\%}
\def\setsmalldispenv{\%}
\iffalse\SETdispenvsize\nosmallword
\else
\ifnum \lastpenalty=10000 \else \endgraf \fi
\smallexamplefonts \rm
\fi
\fi
\% We often define two environments, @foo and @smallfoo.
% Let's do it in one command. #1 is the env name, #2 the definition.
\def\makedispenvdef#1#2{\%}
\expandafter\envdef\csname #1\endcsname \setnormaldispenv \#2\%}
\expandafter\envdef\csname small#1\endcsname \setsmalldispenv \#2\%
\expandafter\let\csname E#1\endcsname \afterenvbreak
\expandafter\let\csname Esmall#1\endcsname \afterenvbreak
\)
\% Define two environment synonyms (#1 and #2) for an environment.
\def\maketwodispenvdef#1#2#3{\%
\expandafter\envdef\csname #1\endcsname \setnormaldispenv \#2\%
\expandafter\envdef\csname small#1\endcsname \setsmalldispenv \#2\%
\expandafter\let\csname E#1\endcsname \afterenvbreak
\expandafter\let\csname Esmall#1\endcsname \afterenvbreak
\)
\% @lisp: indented, narrowed, typewriter font;
% @example: same as @lisp.
% @smallexample and @smalllisp: use smaller fonts.
\maketwodispenvdef{lisp}{example} %
\nonfillstart
\tt\setupmarkupstyle{example}%
\let\kbdfont = \kbdexamplefont % Allow @kbd to do something special.
\gobble % eat return
\}
% @display/@smalldisplay: same as @lisp except keep current font.
%
\makedispenvdef{display} %
\nonfillstart
\gobble
\}

% @format/@smallformat: same as @display except don't narrow margins.
%
\makedispenvdef{format} %
\let\nonarrowing = t%
\nonfillstart
\gobble
\}
\let\Eflushleft = \afterenvbreak

% @flushleft: same as @format, but doesn't obey \SETdispenvsize.
\envdef\flushleft{%
\let\nonarrowing = t%
\nonfillstart
\gobble
\}
\let\Eflushleft = \afterenvbreak

% @flushright.
%
\envdef\flushright{%
\let\nonarrowing = t%
\nonfillstart
\advance\leftskip by 0pt plus 1fill\relax
\gobble
\}
\let\Eflushright = \afterenvbreak

% @raggedright does more-or-less normal line breaking but no right
% justification.  From plain.tex.
\envdef\raggedright{%
\rightskip0pt plus2em \spaceskip.3333em \xspaceskip.5em\relax
\gobble
\}
\let\Eraggedright\par
% @set txicodequotebacktick will not have effect on @verb and @verbatim, and ? and ! ligatures won't get disabled.
%\do\\do\%
}
%
% [Knuth] p. 380
\def\uncatcodespecials{%
  \def\do##1{\catcode`##1=\other}\dospecials}
%
% Setup for the @verb command.
%
% Eight spaces for a tab
\begin{group}
  \catcode`\^^I=\active
  \gdef\tabeightspaces{\catcode`\^^I=\active\def\^^I{\\\\\\\\\\\\\ }}
\end{group}
%
\def\setupverb{%
  \tt % easiest (and conventionally used) font for verbatim
  \def\par{\leavevmode\endgraf}\% 
  \setupmarkupstyle{verb}\%
  \tabeightspaces
  \% Respect line breaks, 
  \% print special symbols as themselves, and
  \% make each space count
  \% must do in this order:
  \obeylines \uncatcodespecials \sepspaces
}
%
% Setup for the @verbatim environment
%
% Real tab expansion.
\newdimen\tabw \setbox0=\hbox{\tt\space} \tabw=8\wd0 \% tab amount
%
% We typeset each line of the verbatim in an \hbox, so we can handle
% tabs. The \global is in case the verbatim line starts with an accent, 
% or some other command that starts with a begin-group. Otherwise, the 
% entire \verbbox would disappear at the corresponding end-group, before 
% it is typeset. Meanwhile, we can't have nested verbatim commands 
% (can we?), so the \global won't be overwriting itself.
\newbox\verbbox
\def\starttabbox{\global\setbox\verbbox=\hbox\begin{group}}
%
\begin{group}
  \catcode`\^^I=\active
  \gdef\tabexpand{%
    \catcode`\^^I=\active
    \def\^^I{\leavevmode\endgroup}

% because texinfo's \verbatim doesn't stop at \end{verbatim}:
% we need not redefine \, [' and ']
%
% Inspired by LaTeX's verbatim command set [latex.ltx]
%
\begingroup
\catcode`\ =\active
\obeylines %
% ignore everything up to the first ^^M, that's the newline at the end
% of the @verbatim input line itself. Otherwise we get an extra blank
% line in the output.
\xdef\doverbatim#1^^M#2@end verbatim{#2\noexpand\end\gobble verbatim}%
% We really want [...]\end verbatim in the body of the macro, but
% without the active space; thus we have to use \xdef and \gobble.
\endgroup
%
\envdef\verbatim{%
  \setupverbatim\doverbatim
}
\let\Everbatim = \afterenvbreak
%
@verbatiminclude FILE - insert text of file in verbatim environment.
%
\def\verbatiminclude{\parseargusing\filenamecatcodes\doverbatiminclude}
%
\def\doverbatiminclude#1{%
  {%
    \makevalueexpandable
    \setupverbatim
    \indexnofonts % Allow `@@' and other weird things in file names.
    \wlog{texinfo.tex: doing \verbatiminclude of #1^^J}%
    \input #1
    \afterenvbreak
  }%
}
%
% @copying ... @end copying.
% Save the text away for @insertcopying later.
%
% We save the uninterpreted tokens, rather than creating a box.
% Saving the text in a box would be much easier, but then all the
% typesetting commands (@smallbook, font changes, etc.) have to be done
% beforehand -- and a) we want @copying to be done first in the source
% file; b) letting users define the frontmatter in as flexible order as
% possible is very desirable.
%
\def\copying{\checkenv{}\begingroup\scanargctxt\docopying}
\def\dodefunx#1{%
  % First, check whether we are in the right environment:
  \checkenv#1%
  
  % As above, allow line break if we have multiple x headers in a row.
  % It's not a great place, though.
  \ifnum\lastpenalty=10002 \penalty3000 \else \defunpenalty=10002 \fi 
  
  % And now, it's time to reuse the body of the original defun:
  \expandafter\gobbledefun#1%
}
\def\gobbledefun#1\startdefun{ }

% \printdefunline \deffnheader{text}
%
\def\printdefunline#1#2{%
  \begingroup
    % call \deffnheader:
    #1#2 \endheader
    % common ending:
    \interlinepenalty = 10000
    \advance\rightskip by 0pt plus 1fil\relax
    \endgraf
    \nobreak\vskip -\parskip
    \penalty\defunpenalty  % signal to \startdefun and \dodefunx
    \checkparencounts
  \endgroup
}
\def\Edefun{\endgraf\medbreak}

% \makedefun{deffn} creates \deffn, \deffnx and \Edeffn;
% the only thing remaining is to define \deffnheader.
%
\def\makedefun#1{%
  \expandafter\let\csname E#1\endcsname = \Edefun
  \edef\temp{\noexpand\domakedefun\makecsname{#1}\makecsname{#1x}\makecsname{#1header}}%}

\def\domakedefun\deffn\deffnx\deffnheader{ }
%
% Define \deffn and \deffnx, without parameters.
% \deffnheader has to be defined explicitly.
% Typed functions:

% @deftypefn category type name args
\makedefun[deftypefn]{deftypefngeneral{}}

% @deftypeop category class type name args
\makedefun[deftypeop]{#1}{\deftypeopon{#1\ \putwordon}}

% \deftypeopon {category on}class type name args
\def\deftypeopon#1#2 {\deftypefngeneral{\putwordon\ \code{#2}}{#1\ \code{#2}}} 

% \deftypefngeneral {subind}category type name args
% 
\def\deftypefngeneral#1#2 #3 #4 #5\endheader{%
\dosubind{fn}{\code{#4}}{#1}\
\doingtypefntrue
\defname{#2}{#3}{#4}\defunargs{#5\unskip}%
}

% Typed variables:

% @deftypevr category type var args
\makedefun[deftypevr]{deftypecvgeneral{}}

% @deftypecv category class type var args
\makedefun[deftypecv]{#1}{\deftypecvof{#1\ \putwordof}}

% \deftypecvof {category of}class type var args
\def\deftypecvof#1#2 {\deftypecvgeneral{\putwordof\ \code{#2}}{#1\ \code{#2}}} 

% \deftypecvgeneral {subind}category type var args
% 
\def\deftypecvgeneral#1#2 #3 #4 #5\endheader{%
\dosubind{vr}{\code{#4}}{#1}\
\defname{#2}{#3}{#4}\defunargs{#5\unskip}%
}

% Untyped variables:

% @defvr category var args
\makedefun[defvr]{#1}{\deftypevrheader{#1} {} }

% @defcv category class var args
\makedefun[defcv]{#1}{\deftypecvof{#1\ \putwordof}}
% \defcvof {category of} class var args
\def\defcvof#1#2 {\deftypecvof{#1}#2 {} }

% Types:

% @deftp category name args
\makedefun{deftp}#1 #2 #3\endheader{%
 \doind{tp}{\code{#2}}% \defname{#1}{}{#2}\defunargs{#3\unskip}%
}

% Remaining @defun-like shortcuts:
\makedefun{defun}{\deffnheader{\putwordDeffunc} }
\makedefun{defmac}{\deffnheader{\putwordDefmac} }
\makedefun{defspec}{\deffnheader{\putwordDefspec} }
\makedefun{deftypefun}{\deftypefnheader{\putwordDeffunc} }
\makedefun{defvar}{\defvrheader{\putwordDefvar} }
\makedefun{defopt}{\defvrheader{\putwordDefopt} }
\makedefun{deftypevar}{\deftypevrheader{\putwordDefvar} }
\makedefun{defmethod}{\defopon\putwordMethodon}
\makedefun{deftypemethod}{\deftypeopon\putwordMethodon}
\makedefun{defivar}{\defcvof\putwordInstanceVariableof}
\makedefun{deftypeivar}{\deftypecvof\putwordInstanceVariableof}

% \defname, which formats the name of the @def (not the args).
% #1 is the category, such as "Function".
% #2 is the return type, if any.
% #3 is the function name.
% We are followed by (but not passed) the arguments, if any.
% \def\defname#1#2#3{%
  \par
  Get the values of \leftskip and \rightskip as they were outside the @def...
  \advance\leftskip by -\defbodyindent
  %
  Determine if we are typesetting the return type of a typed function
  % on a line by itself.
  \rettypeownlinefalse
  \ifdoingtypefn \% doing a typed function specifically?
  % then check user option for putting return type on its own line:
  \expandafter\ifx\csname SETtxideftypefnnl\endcsname\relax \else
  \rettypeownlinetrue
  \fi
  \fi
  %
  % How we'll format the category name. Putting it in brackets helps
% distinguish it from the body text that may end up on the next line
% just below it.
\def\temp{#1}%
\setbox0=\hbox{\kern\deflastmargin\ifx\temp\empty[\rm\temp]\fi}
%
% Figure out line sizes for the paragraph shape. We'll always have at
% least two.
\tempnum = 2
%
% The first line needs space for \box0; but if \rightskip is nonzero,
% we need only space for the part of \box0 which exceeds it:
\dimen0=\hsize \advance\dimen0 by -\wd0 \advance\dimen0 by \rightskip
%
% If doing a return type on its own line, we'll have another line.
\ifrettypeownline
\tempnum by 1
\def\maybeshapeline{0in \hsize}%
\else
\def\maybeshapeline{ }%
\fi
%
% The continuations:
\dimen2=\hsize \advance\dimen2 by -\defargsindent
%
% The final paragraph shape:
\parshape \tempnum 0in \dimen0 \maybeshapeline \defargsindent \dimen2
%
% Put the category name at the right margin.
\noindent
\hbox to 0pt{\hfil\box0 \kern-\hsize
% \hsize has to be shortened this way:
\kern\leftskip
% Intentionally do not respect \rightskip, since we need the space.
}
%
% Allow all lines to be underfull without complaint:
\tolerance=10000 \hbadness=10000
\exdentamount=\defbodyindent
%
% defun fonts. We use typewriter by default (used to be bold) because:
% . we're printing identifiers, they should be in tt in principle.
% . in languages with many accents, such as Czech or French, it's
% common to leave accents off identifiers. The result looks ok in
% tt, but exceedingly strange in rm.
% . we don't want -- and --- to be treated as ligatures.
% . this still does not fix the ? and ! ligatures, but so far no
% one has made identifiers using them :).
\texttt{tt}
def\temp[#2]\% text of the return type
\ifx\temp\empty\else
\texttt{close}\{\temp\}\% typeset the return type
\ifrettetypeownline
\% put return type on its own line; prohibit line break following:
\hspace{\textwidth}\break
\else
\space \% type on same line, so just followed by a space
\fi
\fi\% no return type
\#3\% output function name
\}

\enskip\% hskip 0.5 em of \en
\boldbrax
\% arguments will be output next, if any.
\}

\% Print arguments in slanted roman (not ttsl), inconsistently with using
\% tt for the name. This is because literal text is sometimes needed in
\% the argument list (groff manual), and ttsl and tt are not very
\% distinguishable. Prevent hyphenation at \texttt{`-'} chars.
\%
def\defunargs#1\% use \sl by default (not ttsl),
\% tt for the names.
\df \sl \hyphenchar\font=0
\%
\% On the other hand, if an argument has two dashes (for instance), we
\% want a way to get ttsl. We used to recommend \texttt{var} for that, so
\% leave the code in, but it's strange for \texttt{var} to lead to typewriter.
\% Nowadays we recommend \texttt{code}, since the difference between a ttsl hyphen
\% and a tt hyphen is pretty tiny. \texttt{code} also disables `!'s.
def\var##1{{\setupmarkupstyle{var}\ttslanted{##1}}}\%
\#1\%
\hyphenchar\font=45
\}

\% We want ()&[] to print specially on the defun line.
\%
def\activeparens{\%
\catcode\(=\active \catcode\)=\active
\catcode\\&=\active \catcode\[=\active \catcode\]=\active
\catcode\&=\active
\}

\% Make control sequences which act like normal parenthesis chars.
\let\paren = ( \let\rparen = )

% Be sure that we always have a definition for `(', etc. For example,
% if the fn name has parens in it, \boldbrax will not be in effect yet,
% so TeX would otherwise complain about undefined control sequence.
{
  \activeparens
  \global\let(=\lparen \global\let)=\rparen
  \global\let[=\lbrack \global\let]=\rbrack
  \global\let& = \&

  \gdef\boldbrax{\let(=\opnr \let)=\clnr \let[=\lbrb \let]=\rbrb}
  \gdef\magicamp{\let&=\amprm}
}

\newcount\parencount

% If we encounter &foo, then turn on ()-hacking afterwards
\newif\ifampseen
\def\ampprm#1 {\ampseentrue{\bf\&#1}}
\def\parenfont{\
  \ifampseen
    % At the first level, print parens in roman,
    % otherwise use the default font.
    \ifnum \parencount=1 \rm \fi
  \else
    % The \sf parens (in \boldbrax) actually are a little bolder than
    % the contained text. This is especially needed for [ and ] .
    \sf
    \fi
  \fi
}
\def\infirstlevel#1{\
  \ifampseen
    \ifnum\parencount=1
      \infirstlevel\bf
    \fi
  \fi
}
\def\bfafterword#1{#1 \bf}
\def\opnr{\
  \global\advance\parencount by 1
  {\parenfont(}\
  \infirstlevel \bfafterword
}
\def\clnr{\
  {\parenfont)}\
}
\def\infirstlevel#1{\#1 \bf}
\def\noinfirstlevel#1{\#1}

\def\opnr{\
  \global\advance\parencount by 1
  \parenfont{\
  \infirstlevel \bfafterword
}
\def\noinfirstlevel#1{\#1
% Undo catcode changes of `startcontents` and `doprintindex
% When called from @insertcopying or (short)caption, we need active
% backslash to get it printed correctly. Previously, we had
% `\catcode`\=`\other instead. We'll see whether a problem appears
% with macro expansion.--kasal, 19aug04
\catcode`\@=0 \catcode`\=\active \escapechar=`\@
%
% ... and for `example:
\spaceissspace
%
% The \empty here causes a following catcode 5 newline to be eaten as
% part of reading whitespace after a control sequence. It does not
% eat a catcode 13 newline. There's no good way to handle the two
% cases (untried: maybe e-TeX's \everyeof could help, though plain TeX
% would then have different behavior). See the Macro Details node in
% the manual for the workaround we recommend for macros and
% line-oriented commands.
%
\scantokens{#1\empty}
\endgroup

\def\scanexp#1{\edef\temp{\noexpand\scanmacro{#1}}\temp}

\newcount\paramno   % Count of parameters
\newtoks\macname    % Macro name
\newif\ifrecursive  % Is it recursive?

% List of all defined macros in the form
% \definedummyword\macro1\definedummyword\macro2...
% Currently is also contains all @aliases; the list can be split
% if there is a need.
\def\macrolist{}  

% Add the macro to \macrolist
\def\addtomacrolist#1{\expandafter\addtomacrolist\csname#1\endcsname}
\def\addtomacrolistxx#1{\toks0 = \expandafter{\macro0#1} \xdef\macrolist{\the\toks0}}

% Utility routines.
% This does \let #1 = #2, with \csnames; that is,
% \let \csname#1\endcsname = \csname#2\endcsname
% (except of course we have to play expansion games).
%
def\cslet#1#2{%
\expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname
}
%
% Trim leading and trailing spaces off a string.
% Concepts from aro-bend problem 15 (see CTAN).
{\catcode`\@=11
\gdef\eatspaces #1{\expandafter\trim@\expandafter{#1 }}
\gdef\trim@ #1{\trim@@ @#1 @ #1 @ @@}
\gdef\trim@@ #1@ #2@ #3@@{\trim@@@\empty #2 @}
\def\unbrace#1\{\def\trim@@@ #1 } #2@ {#1}
}
%
% Trim a single trailing ^^M off a string.
{\catcode`^^M=\other \catcode`Q=3%
\gdef\eatcr #1{\eatcra #1Q^^MQ}%
\gdef\eatcra#1^^MQ{\eatcrb#1Q}%
\gdef\eatcrb#1Q#2Q{#1}%
}
%
% Macro bodies are absorbed as an argument in a context where
% all characters are catcode 10, 11 or 12, except \ which is active
% (as in normal texinfo). It is necessary to change the definition of \n% to recognize macro arguments; this is the job of \mbodybackslash.
%
% Non-ASCII encodings make 8-bit characters active, so un-activate
% them to avoid their expansion. Must do this non-globally, to
% confine the change to the current group.
%
% It's necessary to have hard CRs when the macro is executed. This is
% done by making ^^M (\endlinechar) catcode 12 when reading the macro
% body, and then making it the \newlinechar in \scanmacro.
%
def\scanctxt{\% used as subroutine
\catcode`\"=\other
\catcode`\+=\other
\catcode`\<=\other
\catcode`\>=\other
\catcode`\@=\other
\catcode`\^=\other
\catcode`\_=\other
\catcode`\|=\other
\catcode`\~=\other
\def\scanargctxt{% used for copying and captions, not macros.
  \scanctxt
  \catcode`\%=other
  \catcode`\^^M=other
}

\def\macrobodyctxt{% used for @macro definitions
  \scanctxt
  \catcode`\{=other
  \catcode`\}=other
  \catcode`\^^M=other
  \usembodybackslash
}

\def\macroargctxt{% used when scanning invocations
  \scanctxt
  \catcode`\%=0
%
% why catcode 0 for \ in the above? To recognize \[ \} as "escapes"
% for the single characters \[ \}. Thus, we end up with the "commands"
% that would be written @\[@ in a Texinfo document.
%
% We already have @[ and @]. For @\, we define it here, and only for
% this purpose, to produce a typewriter backslash (so, the @\ that we
% define for @math can't be used with @macro calls):
%
% \def\\normalbackslash\%
%%
% We would like to do this for \, too, since that is what makeinfo does.
% But it is not possible, because Texinfo already has a command @, for a
% cedilla accent. Documents must use @comma{} instead.
%
% \anythingelse will almost certainly be an error of some kind.
%
% \mbodybackslash is the definition of \ in @macro bodies.
% It maps \foo\Rightarrow\csname macarg.foon\endcsname\Rightarrow#N
% where N is the macro parameter number.
% We define \csname macarg.\endcsname to be \realbackslash, so
% \ in macro replacement text gets you a backslash.
%
% {\catcode`@=0 @catcode`@=\active
  @gdef@usembodybackslash{\let@=\mbodybackslash}
  @gdef@mbodybackslash#1\{\csname macarg.#1@endcsname}
}
% Called by \do from \dounmacro on each macro. The idea is to omit any
% macro definitions that have been changed to \relax.
%
\def\unmacrodo#1{%
\ifx #1\relax
% remove this
\else
\noexpand\definedummyword \noexpand#1%
\fi
}
%
% This makes use of the obscure feature that if the last token of a
% <parameter list> is #, then the preceding argument is delimited by
% an opening brace, and that opening brace is not consumed.
\def\getargs#1{\getargsxxx#1{}%}
\def\getargsxxx#1#{\getmacname #1 \relax\getmacargs}
\def\getmacname#1 #2\relax{\macname={#1}}
\def\getmacargs#1{\def\argl{#1}}
%
% For macro processing make @ a letter so that we can make Texinfo private macro names.
\edef\texiatcatcode{\the\catcode`@}
\catcode`@=11\relax
%
% Parse the optional \params list. Set up \paramno and \paramlist
% so \defmacro knows what to do. Define \macarg.BLAH for each BLAH
% in the params list to some hook where the argument si to be expanded. If
% there are less than 10 arguments that hook is to be replaced by \#\#N where N
% is the position in that list, that is to say the macro arguments are to be
% defined `a la TeX in the macro body.
%
% That gets used by \mbodybackslash (above).
%
% We need to get `macro parameter char #` into several definitions.
% The technique used is stolen from LaTeX: let `hash be something
% unexpandable, insert that wherever you need a #, and then redefine
% it to # just before using the token list produced.
%
% The same technique is used to protect \eatspaces till just before
% the macro is used.
%
% If there are 10 or more arguments, a different technique is used, where the
% hook remains in the body, and when macro is to be expanded the body is
% processed again to replace the arguments.
%
% In that case, the hook is \the\toks N-1, and we simply set \toks N-1 to the
% argument N value and then \def the body (nothing else will expand because of
% the catcode regime underwhich the body was input).


\% If you compile with TeX (not e\TeX), and you have macros with 10 or more \% arguments, you need that no macro has more than 256 arguments, otherwise an \% error is produced.
\def\parsemargdef#1;{% 
  \paramno=0\def\paramlist{}% 
  \let\hashrelax 
  \let\xeatspacesrelax 
  \parsemargdefxxx#1,;,% 
  \% In case that there are 10 or more arguments we parse again the arguments 
  \% list to set new definitions for the \macarg.BLAH macros corresponding to 
  \% each BLAH argument. It was anyhow needed to parse already once this list 
  \% in order to count the arguments, and as macros with at most 9 arguments 
  \% are by far more frequent than macro with 10 or more arguments, defining 
  \% twice the \macarg.BLAH macros does not cost too much processing power. 
  \ifnum\paramno<10\relax\else 
    \paramno0\relax 
    \parsemanymanyargdef@@@#1,;,% 10 or more arguments 
  \fi 
}\def\parsemargdefxxx#1,{{% 
  \if#1;\let\next=relax 
  \else \let\next=\parsemargdefxxx 
    \advance\paramno by 1 
    \expandafter\edef\csname macarg.eatspaces{#1}\endcsname 
    {\xeatspaces{\hash\the\paramno}}% 
    \edef\paramlist{\paramlist\hash\the\paramno,}% 
  \fi
  \let\next=\relax \edef\tempb{\eatspaces{#1}}% 
  \expandafter\def\expandafter\tempa 
  {\csname macarg.\tempb\endcsname} % Note that we need some extra \noexpand\noexpand, this is because we 
  \% don't want \the \ to be expanded in the \parsermacbody as it uses an 
  \% \xdef. 
  \expandafter\edef\tempa 
  {\noexpand\noexpand\noexpand\the\toks\the\paramno}% 
  \advance\paramno by 1\relax 
  \fi\next}
\def\parsemanymanyargdef@@@#1,{{% 
  \if#1;\let\next=relax 
  \else \let\next=\parsemanymanyargdef@@ 
    \edef\tempb{\eatspaces{#1}}% 
    \expandafter\def\expandafter\tempa 
    {\csname macarg.\tempb\endcsname}% 
    \expandafter\edef\tempa 
    {\noexpand\noexpand\noexpand\the\toks\the\paramno}% 
    \advance\paramno by 1\relax 
  \fi\next}

\% These two commands read recursive and nonrecursive macro bodies. 
\% (They're different since rec and nonrec macros end differently.) 
\%
%% This macro is expanded during the Texinfo macro expansion, not during its % definition. It gets all the arguments values and assigns them to macros % macarg.ARGNAME
%
% #1 is the macro name
% #2 is the list of argument names
% #3 is the list of argument values
\def\getargvals@#1#2#3{%\def\macargdeflist@{}%\def\saveparamlist@{#2}% Need to keep a copy for parameter expansion.\def\paramlist{#2,\nil@}%\def\macroname{#1}%\begingroup\macroargctxt\def\argvaluelist{#3,\nil@}%\def\@tempa{#3}%\ifx\@tempa\empty\setemptyargvalues@\else\getargvals@@\fi\endgroup\def\@tempa{}\def\finalargvaluelist@{#3}\def\macarg@expandinbody@{\@nil\expandafter\def\csname macarg@\macroname\endcsname\argvaluelist\@nil\expandafter\def\@nil\expandafter\do\csname macarg@\macroname\endcsname\@nil}}

% Some sanity check needed here that \argvaluelist is also empty.\ifx\argvaluelist\nilm@\else\errhelp = \EMsimple\errmessage[Too many arguments in macro \texttt{\macroname}]%\fi\def\next\macargexpandinbody@\else\ifx\argvaluelist\nilm@% No more arguments values passed to macro. Set remaining named-arg
% macros to empty.
\def\next\setemptyargvalues@
\else
% pop current arg name into @tempb
\def\@tempa##1{\pop@{\@tempb}{\paramlist}##1\endargs@}\
\expandafter\@tempa\expandafter{\paramlist}\
% pop current argument value into @tempc
\def\@tempa##1{\longpop@{\@tempc}{\argvaluelist}##1\endargs@}\
\expandafter\@tempa\expandafter{\argvaluelist}\
% Here @tempb is the current arg name and @tempc is the current arg value.
% First place the new argument macro definition into @tempd
\expandafter\macname\expandafter{\@tempc}\
\expandafter\let\csname macarg.@tempb\endcsname\relax\
\expandafter\def\expandafter\@tempe\expandafter{\csname macarg.@tempb\endcsname}\
\edef\@tempd{\long\def\@tempe{\the\macname}}\
\push@\@tempd\macargdeflist@
\def\next\getargvals@@@\
\fi
\fi
\next
}
\def\push@#1#2{\expandafter\expandafter\expandafter#2\expandafter\expandafter\expandafter{\expandafter#1#2}}

% Replace arguments by their values in the macro body, and place the result
% in macro \@tempa
\def\macvalstoargs@{\begingroup
% To do this we use the property that token registers that are \the'ed
% within an \edef expand only once. So we are going to place all argument
% values into respective token registers.
%
% First we save the token context, and initialize argument numbering.
\begingroup
\paramno0\relax
% Then, for each argument number #N, we place the corresponding argument
% value into a new token list register \toks#N
\expandafter\putargsintokens@,;\saveparamlist@,;\relax
% Then, we expand the body so that argument are replaced by their
% values. The trick for values not to be expanded themselves is that they
% are within tokens and that tokens expand only once in an \edef .
\edef\@tempc{\csname macarg.\macroname.body\endcsname}\
% Now we restore the token stack pointer to free the token list registers
}
% which we have used, but we make sure that expanded body is saved after
% group.
\expandafter\endgroup
\expandafter\def\expandafter\@tempa\expandafter{\@tempc}%
}

\def\macargexpandinbody@{%
%%% Define the named-macro outside of this group and then close this group.
\expandafter\endgroup
\macargdeflist@
% First the replace in body the macro arguments by their values, the result
% is in \@tempa .
\macvalstoargs@
% Then we point at the \norecurse or \gobble (for recursive) macro value
% with \@tempb .
\expandafter\let\expandafter\@tempb\csname mac\macroname .recurse\endcsname
% Depending on whether it is recursive or not, we need some tailing
% \egroup .
\ifx\@tempb\gobble
 \let\@tempc\relax
\else
 \let\@tempc\egroup
\fi
% And now we do the real job:
\edef\@tempd{%noexpand\@tempb\macroname\noexpand\scanmacro{\@tempa}\@tempc}
\@tempd
}

\def\putargsintokens@#1,{% #1
\if#1;\let\next\relax
\else
 \let\next\putargsintokens@
 % First we allocate the new token list register, and give it a temporary
 % alias \@tempb .
 \toksdef\@tempb\the\paramno
 % Then we place the argument value into that token list register.
 \expandafter\let\expandafter\@tempb\csname macarg.#1\endcsname
 \expandafter\expandafter\expandafter\@tempb\expandafter{\@tempa}%
 \advance\paramno by 1\relax
\fi
\next
}

% Save the token stack pointer into macro #1
\def\texisavetoksstackpoint#1{\edef#1{\the\@cclvi}}
% Restore the token stack pointer from number in macro #1

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\def\texirestoretoksstackpoint#1{\expandafter\mathchardef\expandafter@cclvi#1\relax}
% newtoks that can be used non \outer .
\def\texinonouternewtoks{\alloc@ 5\toks \toksdef \@cclvi}

% Tailing missing arguments are set to empty
\def\setemptyargvalues@ {%
  \if\paramlist\nilm@
    \let\next\macargexpandinbody@
  \else
    \expandafter\setemptyargvaluesparser@\paramlist\endargs@
    \let\next\setemptyargvalues@
  \fi
  \next
%
}\def\setemptyargvaluesparser@#1,#2\endargs@ {%
  \expandafter\def\expandafter@tempa\expandafter{%
    \expandafter\def\csname\macarg.#1\endcsname{}}%
  \push@\@tempa\macargdeflist@
  \def\paramlist{#2}%
%
}% #1 is the element target macro
% #2 is the list macro
% #3,#4\endargs@ is the list value
\def\pop@#1#2#3,#4\endargs@ {%
  \def#1{#3}%
  \def#2{#4}%
}
\long\def\longpop@#1#2#3,#4\endargs@ {%
  \long\def#1{#3}%
  \long\def#2{#4}%
%
}% This defines a Texinfo @macro. There are eight cases: recursive and
% nonrecursive macros of zero, one, up to nine, and many arguments.
% Much magic with \expandafter here.
% \xdef is used so that macro definitions will survive the file
% they're defined in; @include reads the file inside a group.
% \def\defmacro{%
  \let\hash=##% convert placeholders to macro parameter chars
  \ife\recursive
    \case\paramno
    \quad \if\paramno
      \expandafter\def\csname\the\macname\endcsname{%
        \noexpand\scanmacro{\temp}[]%}
    \quad \else
      \noexpand\scanmacro{\temp}[]%}
    \fi
    \fi
  \fi
  \fi
}
\message{cross references,}

\newwrite\auxfile
\newif\ifhavexrefs % True if xref values are known.
\newif\ifwarnedxrefs % True if we warned once that they aren't known.

% @ifndef is relatively simple.
\def\ifndef #1{\ifndefzzz #1,,,,**}
\def\ifndefzzz #1,#2,#3,#4**{%
  \putwordSee{} \putwordInfo{} \putwordfile{} \file{\ignorespaces #3{}}.
  \node \samp{\ignorespaces#1{}}}

% @node's only job in TeX is to define \lastnode, which is used in
% cross-references. The @node line might or might not have commas, and
% might or might not have spaces before the first comma, like:
% @node foo , bar , ...
% We don't want such trailing spaces in the node name.
%
\parseargdef\node{\checkenv{} \donode #1 ,\finishnodeparse}

% also remove a trailing comma, in case of something like this:
% @node Help-Cross, , Cross-ref
\def\donode#1 ,#2\finishnodeparse{
dodonode #1,\finishnodeparse}
\def\dodonode#1,#2\finishnodeparse{
  \gdef\lastnode{#1}}

\let\wnode=\node
\let\lastnode=\empty

% Write a cross-reference definition for the current node. #1 is the
% type (Ynumbered, Yappendix, Ynothing).
%
\def\donoderef#1{%
  \ifx\lastnode\empty\else
    \setref{\lastnode}{#1}%
    \global\let\lastnode=\empty
  \fi}
%
% @anchor{NAME} -- define xref target at arbitrary point.
%
\newcount\savesfregister

% \def\savesf{\relax \ifhmode \savesfregister=\spacefactor \fi}
\def\restoresf{\relax \ifhmode \spacefactor=\savesfregister \fi}
\def\anchor#1{\savesf \setref{#1}{Ynothing}\restoresf \ignorespaces}
% \setref\{NAME\}\{SNT\} defines a cross-reference point \textit{NAME} (a node or an
% anchor), which consists of three parts:
% 1) NAME-title - the current sectioning name taken from \lastsection,
% or the anchor name.
% 2) NAME-snt   - section number and type, passed as the SNT arg, or
% empty for anchors.
% 3) NAME-pg    - the page number.
%
% This is called from \donoderef, \anchor, and \dofloat. In the case of
% floats, there is an additional part, which is not written here:
% 4) NAME-lof   - the text as it should appear in a @listoffloats.
%
\def\setref#1#2{%
\pdfmkdest{#1}%
\iflinks
\atdummies % preserve commands, but don't expand them
\edef\writexrdef##1##2{%
\write\auxfile{@xrdef{#1-% #1 of \setref, expanded by the \edef
##1##2}}% these are parameters of \writexrdef
\toks0 = \expandafter{\lastsection}%
\immediate \writexrdef{title}{\the\toks0 }%
\immediate \writexrdef{snt}{\csname #2\endcsname}% \Ynumbered etc.
\safewhatsit{\writexrdef{pg}{\folio}}% will be written later, at \shipout
}\}%
\fi
}
%
% @xrefautomaticsectiontitle on|off says whether @section(ing) names are used
% automatically in xrefs, if the third arg is not explicitly specified.
% This was provided as a "secret" @set xref-automatic-section-title
% variable, now it's official.
%
\parseargdef\xrefautomaticsectiontitle{%
\def\temp(#1)%
\ifdef\temp\onword
\expandafter{\let\csname SETxref-automatic-section-title\endcsname = \empty}
\else\ifdef\temp\offword
\expandafter{\let\csname SETxref-automatic-section-title\endcsname = \relax}
\else\errhelp = \EMsimple
\errmessage{Unknown @xrefautomaticsectiontitle value `\temp',
must be on|off}%
\fi\fi}
% @xref, @pxref, and @ref generate cross-references. For \xrefX, #1 is
% the node name, #2 the name of the Info cross-reference, #3 the printed
% node name, #4 the name of the Info file, #5 the name of the printed
% manual. All but the node name can be omitted.
%
\def\pxref#1{\putwordsee{} \xrefX[#1,,,,,,]}
\def\xref#1{\putwordSee{} \xrefX[#1,,,,,,]}
\def\ref#1{\xrefX[#1,,,,,,]}

\newbox\toprefbox
\newbox\printedrefnamebox
\newbox\infilenamebox
\newbox\printedmanualbox

\def\xrefX[#1,#2,#3,#4,#5,#6]{\begingroup
\unsepspaces
% Get args without leading/trailing spaces.
\def\printedrefname{\ignorespaces #3}\% 
\setbox\printedrefnamebox = \hbox{\printedrefname\unskip}\%
\def\infilename{\ignorespaces #4}\% 
\setbox\infilenamebox = \hbox{\infilename\unskip}\%
\def\printedmanual{\ignorespaces #5}\% 
\setbox\printedmanualbox = \hbox{\printedmanual\unskip}\%
%
% If the printed reference name (arg #3) was not explicitly given in
% the @xref, figure out what we want to use.
\ifdim \wd\printedrefnamebox = 0pt
% No printed node name was explicitly given.
\expandafter\ifx\csname SETxref-automatic-section-title\endcsname \relax
% Not auto section-title: use node name inside the square brackets.
\def\printedrefname{\ignorespaces #1}\%
\else
% Auto section-title: use chapter/section title inside
% the square brackets if we have it.
\ifdim \wd\printedmanualbox > 0pt
% It is in another manual, so we don't have it; use node name.
\def\printedrefname{\ignorespaces #1}\%
\else
\ifhavexrefs
% We (should) know the real title if we have the xref values.
\def\printedrefname{\refx[#1-title] {}}\%
\else
% Otherwise just copy the Info node name.
\fi
\fi
\fi
\endgroup}
% If the user specified the print name (third arg) to the ref, 
% print it instead of our usual "Figure 1.2".
\ifdef\wd\printedrefnamebox = 0pt
\refx{#1-snt}{ }%
\else
 \printedrefname
\fi

% If the user also gave the printed manual name (fifth arg), append 
% "in MANUALNAME".
\ifdef \wd\printedmanualbox > 0pt
 \space \putwordin{} \cite{\printedmanual}%
\else\fi
\else
% node/anchor (non-float) references.
%
% If we use \unhbox to print the node names, TeX does not insert
% empty discretionaries after hyphens, which means that it will not
% find a line break at a hyphen in a node names. Since some manuals
% are best written with fairly long node names, containing hyphens,
% this is a loss. Therefore, we give the text of the node name
% again, so it is as if TeX is seeing it for the first time.
%
\ifdef \wd\printedmanualbox > 0pt
 % Cross-manual reference with a printed manual name.
%
\crossmanuaxref{\cite{\printedmanual\unskip}}%
\else\ifdef \wd\infofilenamebox > 0pt
 % Cross-manual reference with only an info filename (arg 4), no
 % printed manual name (arg 5). This is essentially the same as
 % the case above; we output the filename, since we have nothing else.
%
\crossmanuaxref{\code{\infofilename\unskip}}%
\else
 % Reference within this manual.
%
% _ (for example) has to be the character _ for the purposes of the
% control sequence corresponding to the node, but it has to expand
% into the usual \leavevmode...\vrule stuff for purposes of
% printing. So we \turnoffactive for the \refx-snt, back on for the
% printing, back off for the \refx-pg.
{\turnoffactive
 % Only output a following space if the -snt ref is nonempty; for
 % @unnumbered and @anchor, it won't be.
\setbox2 = \hbox{\ignorespaces \refx{#1-snt}{} }%
\ifdef \wd2 > 0pt \refx{#1-snt}\space\fi

\% output the `[mynode]' via the macro below so it can be overridden.
\xrefprintnodename\ printedrefname
\%
\% But we always want a comma and a space:
\,\space
\%
\% output the `page 3'.
\turnoffactive \putwordpage\tie\refx{#1-pg}{}\%
\fi \fi
\endlink
\endgroup

\%
\% Output a cross-manual xref to #1. Used just above (twice).
\%
\%
\% Only include the text "Section `foo` in" if the foo is neither
\% missing or Top. Thus, @xref{...foo,The Foo Manual} outputs simply
\% "see The Foo Manual", the idea being to refer to the whole manual.
\%
\%
\% But, this being TeX, we can't easily compare our node name against the
\% string "Top" while ignoring the possible spaces before and after in
\% the input. By adding the arbitrary 7sp below, we make it much less
\% likely that a real node name would have the same width as "Top" (e.g.,
\% in a monospaced font). Hopefully it will never happen in practice.
\%
\%
\% For the same basic reason, we retypeset the "Top" at every
\% reference, since the current font is indeterminate.
\%
\def\crossmanualxref#1{\%
\setbox\toprefbox = \hbox{Top\kern7sp}\
\setbox2 = \hbox{\ignorespaces \printedrefname \unskip \kern7sp}\
\ifdim \wd2 > 7sp \ % nonempty?
\ifdim \wd2 = \wd\toprefbox \else \ % same as Top?
\putwordSection{} `\`\printedrefname` \putwordin{ }\space
\fi
\fi
\%
\% This macro is called from \xrefX for the `[nodename]' part of xref
\% output. It's a separate macro only so it can be changed more easily,
\% since square brackets don't work well in some documents. Particularly
\% one that Bob is working on :).  
\%
\def\xrefprintnodename#1[[#1]]

\%
\% Things referred to by \setref.
\fi
\fi
\fi
\else
  % It's defined, so just use it.
  \thisrefX
\fi

% Output the suffix in any case.
}

% This is the macro invoked by entries in the aux file. Usually it's
% just a \def (we prepend XR to the control sequence name to avoid
% collisions). But if this is a float type, we have more work to do.
%
\def\xrdef#1#2{%
  {% The node name might contain 8-bit characters, which in our current
  % implementation are changed to commands like @'e. Don't let these
  % mess up the control sequence name.
  \indexnofonts
  \turnoffactive
  \xdef\safexrefname{#1}%
  }%
%
  \expandafter\gdef\csname XR\safexrefname\endcsname{#2}% remember this xref
%
  % Was that xref control sequence that we just defined for a float?
  \expandafter\iffloat\csname XR\safexrefname\endcsname
    % it was a float, and we have the (safe) float type in \iffloattype.
    \expandafter\let\expandafter\floatlist\csname floatlist\iffloattype\endcsname
  \csname floatlist\iffloattype\endcsname
    %
    % Is this the first time we've seen this float type?
    \expandafter\iffx\floatlistrelax
      \toks0 = {\do}% yes, so just \do
    \else
      % had it before, so preserve previous elements in list.
      \toks0 = \expandafter{\floatlist\do}%
    \fi
    %
    % Remember this xref in the control sequence \floatlistFLOATTYPE,
    % for later use in listoffloats.
    \expandafter\xdef\csname floatlist\iffloattype\endcsname{\the\toks0
        \{\safexrefname\} }%
  \fi
  
%
  % Read the last existing aux file, if any. No error if none exists.
  %
\def\tryauxfile{\openin 1 \jobname.aux\ifeof 1 \else\readdatafile{aux}\global\havexref\fi\closein 1}\def\setupdatafile{\catcode`\^^@=\other\catcode`\^^A=\other\catcode`\^^B=\other\catcode`\^^C=\other\catcode`\^^D=\other\catcode`\^^E=\other\catcode`\^^F=\other\catcode`\^^G=\other\catcode`\^^H=\other\catcode`\^^I=\other\catcode`\^^J=\other\catcode`\^^K=\other\catcode`\^^L=\other\catcode`\^^M=\other\catcode`\^^N=\other\catcode`\^^O=\other\catcode`\^^P=\other\catcode`\^^Q=\other\catcode`\^^R=\other\catcode`\^^S=\other\catcode`\^^T=\other\catcode`\^^U=\other\catcode`\^^V=\other\catcode`\^^W=\other\catcode`\^^X=\other\catcode`\^^Y=\other\catcode`\^^Z=\other\catcode`\^^[=\other\catcode`\^^]=\other\catcode`\^^!=\other\catcode`\^^^=\other\catcode`\^^_=\other\par% It was suggested to set the catcode of ^ to 7, which would allow ^^e4 etc.\par% in xref tags, i.e., node names. But since ^^e4 notation isn't\par% supported in the main text, it doesn't seem desirable. Furthermore,\par% that is not enough: for node names that actually contain a ^\par% character, we would end up writing a line like this: \xrdef{\hat b-title}{\hat b} and \xrdef does a \csname...\endcsname on the first\par% argument, and \hat is not an expandable control sequence. It could\par% all be worked out, but why? Either we support ^^ or we don't.\par%\par% The other change necessary for this was to define \auxhat:\par% \def\auxhat{\def\^{'hat }% extra space so ok if followed by letter
\% and then to call \auxhat in \setq.
\%
\catcode`\^=\other
\%
\% Special characters. Should be turned off anyway, but...
\catcode`\~=\other
\catcode`\[=\other
\catcode`\]=\other
\catcode`\_=\other
\catcode`\|=\other
\catcode`\>=\other
\catcode`\%=\other
\catcode`+=\other % avoid \+ for paranoia even though we've turned it off
\%
\% This is to support \ in node names and titles, since the \ characters end up in a \csname. It's easier than
\% leaving it active and making its active definition an actual \ character. What I don't understand is why it works in the *value*
\% of the xrdef. Seems like it should be a catcode12 \, and that
\% should not typeset properly. But it works, so I'm moving on for
\% now. --karl, 15jan04.
\catcode`\\=\other
\%
\%
\% Make the characters 128-255 be printing characters.
{\%
 \count1=128
 \def\loop{\%
 \catcode\count1=\other
 \advance\count1 by 1
 \ifnum \count1<256 \loop \fi
 \}%
}%
%
%
\% @ is our escape character in .aux files, and we need braces.
\catcode`\{=1
\catcode`\}=2
\catcode`@=0
%
}
\def\readdatafile#1{\%
\begingroup
\setupdatafile
\input\jobname.#1
\}%
\begingroup
\setupdatafile
\input\jobname.#1
\endgroup
% footnote reference occurs in (for example) a display environment.
% So reset some parameters.
\hsize=\pagewidth
\interlinepenalty\interfootnotelinepenalty
\splittopskip\hstrutbox % top baseline for broken footnotes
\splitmaxdepth\dp\strutbox
\floatingpenalty\@MM
\leftskip=z@skip
\rightskip=z@skip
\spaceskip=z@skip
\xspaceskip=z@skip
\parindent=defaultparindent
%
\smallfonts \rm
%
% Because we use hanging indentation in footnotes, a @noindent appears
% to exdent this text, so make it be a no-op. makeinfo does not use
% hanging indentation so @noindent can still be needed within footnote
% text after an @example or the like (not that this is good style).
\let\noindent = \relax
%
% Hang the footnote text off the number. Use \everypar in case the
% footnote extends for more than one paragraph.
\everypar = {\hang}%
\textindent{\thisfootno}%
%
% Don’t crash into the line above the footnote text. Since this
% expands into a box, it must come within the paragraph, lest it
% provide a place where TeX can split the footnote.
\footstrut
%
% Invoke rest of plain TeX footnote routine.
\futurelet\nextf@t
%
% In case a @footnote appears in a vbox, save the footnote text and create
% the real \insert just after the vbox finished. Otherwise, the insertion
% would be lost.
% Similarly, if a @footnote appears inside an alignment, save the footnote
% text to a box and make the \insert when a row of the table is finished.
% And the same can be done for other insert classes. --kasal, 16nov03.
%
% Replace the \insert primitive by a cheating macro.
% Deeper inside, just make sure that the saved insertions are not spilled
% out prematurely.
%
\def\startsavinginserts{%
\let\inserts\saveinsert
\let\checkinserts\relax
\fi
}

% This \insert replacement works for both \insert\footins{}foo} and
% \insert\footins{group foo\egroup, but it doesn't work for \insert27{foo}.
%
\def\saveinsert#1{%
  \edef\next{\noexpand\savetobox \makeSAVEname#1}%
  \afterassignment\next
  % swallow the left brace
  \let\temp =
    }
\def\makeSAVEname#1{\makecsname{SAVE}\expandafter\gobble\string#1}}
\def\savetobox#1{\global\setbox#1 = \vbox\bgroup \unvbox#1}

\def\checksaveins#1{\ifvoid#1\else \placesaveins#1\fi}

\def\placesaveins#1{\ptexinsert \csname\expandafter\gobblesave \string#1\endcsname
  \{\box#1\}}

% eat @SAVE -- beware, all of them have catcode \other:
{
  \def\dospecials{\do S\do A\do V\do E} \uncatcodespecials \%
  \gdef\gobblesave @SAVE{} \}

% initialization:
\def\newsaveins #1{\edef\next{\noexpand\newsaveinsX \makeSAVEname#1}%
  \next}
\def\newsaveinsX #1{\csname newbox\endcsname #1%
  \expandafter\def\expandafter\checkinserts\expandafter{\checkinserts
    \checksaveins #1}\}}

% initialize:
\let\checkinserts\empty
\newsaveins\footins
\newsaveins\margin
% for @center @image, we need a vbox so we can have our vertical space
\imagevmodetrue
\vbox\bgroup % vbox has better behavior than vtop here
\fi\fi
%
\ifimagevmode
\nobreak\medskip % Usually we'll have text after the image which will insert
% \parskip glue, so insert it here too to equalize the space
% above and below.
\nobreak\skip\parskip
\nobreak
\fi
%
% Leave vertical mode so that indentation from an enclosing
% environment such as @quotation is respected.
% However, if we're at the top level, we don't want the
% normal paragraph indentation.
% On the other hand, if we are in the case of @center @image, we don't
% want to start a paragraph, which will create a hsize-width box and
% eradicate the centering.
\ifx\centersub\centerV\else \noindent \fi
%
% Output the image.
\ifpdf
 \dopdfimage{#1}{#2}{#3}%
\else
% \epsfbox itself resets \epsf?size at each figure.
\setbox0 = \hbox{\ignorespaces #2}\ifdim\wd0 > 0pt \epsfxsize=#2\relax \fi
\setbox0 = \hbox{\ignorespaces #3}\ifdim\wd0 > 0pt \epsfysize=#3\relax \fi
\epsfbox{#1.eps}%
\fi
%
\ifimagevmode
\medskip  % space after a standalone image
\fi
\ifx\centersub\centerV \egroup \fi
\endgroup
%
% @float FLOATTYPE,LABEL,LOC ... @end float for displayed figures, tables,
% etc. We don't actually implement floating yet, we always include the
% float "here". But it seemed the best name for the future.
%
\envparseargdef\float{\eatcommaspace\eatcommaspace\dofloat#1, , ,\finish}
%
% There may be a space before second and/or third parameter; delete it.
\def\eatcommaspace#1, {#1,}
% #1 is the optional FLOATTYPE, the text label for this float, typically
% "Figure", "Table", "Example", etc. Can't contain commas. If omitted,
% this float will not be numbered and cannot be referred to.
%
% #2 is the optional xref label. Also must be present for the float to
% be referable.
%
% #3 is the optional positioning argument; for now, it is ignored. It
% will somehow specify the positions allowed to float to (here, top, bottom).
%
% We keep a separate counter for each FLOATTYPE, which we reset at each
% chapter-level command.
\let\resetallfloatnos=\empty
%
\def\dofloat#1,#2,#3,#4\finish{%
\let\thiscaption=\empty
\let\thisshortcaption=\empty
%
% don't lose footnotes inside @float.
%
% BEWARE: when the floats start float, we have to issue warning whenever an
% insert appears inside a float which could possibly float. --kasal, 26may04
%
\startsavinginserts
%
% We can't be used inside a paragraph.
\par
%
\vtop\bgroup
\def\floattype{#1}%
\def\floatlabel{#2}%
\def\floatloc{#3}% we do nothing with this yet.
%
\ifx\floattype\empty
\let\safefloattype=\empty
\else
  %
  % the floattype might have accents or other special characters,
  % but we need to use it in a control sequence name.
  \indexnofonts
  \turnoffactive
  \edef\safefloattype{\floattype}%
\fi
%
% If label is given but no type, we handle that as the empty type.
\ifx\floatlabel\empty\else
We want each FLOATTYPE to be numbered separately (Figure 1, Table 1, Figure 2, ...). (And if no label, no number.)
\expandafter\getfloatno\csname safefloattype floatno\endcsname
\global\advance\floatno by 1
\%
{%
  This magic value for \lastsection is output by \setref as the
  XREFLABEL-title value. \xrefX uses it to distinguish float
  labels (which have a completely different output format) from
  node and anchor labels. And \xrdef uses it to construct the
  lists of floats.
%
  \edef\lastsection{\floatmagic=\safefloattype}%
  \setref{\floatlabel}{Yfloat}%
}\%
\fi
%
% start with \parskip glue, I guess.
\vskip\parskip
%
% Don't suppress indentation if a float happens to start a section.
\restorefirstparagraphindent
%
% we have these possibilities:
%
% @float Foo,lbl & @caption{Cap}: Foo 1.1: Cap
% @float Foo,lbl & no caption: Foo 1.1
% @float Foo & @caption{Cap}: Foo: Cap
% @float Foo & no caption: Foo
% @float ,lbl & Caption{Cap}: 1.1: Cap
% @float ,lbl & no caption: 1.1
% @float & @caption{Cap}: Cap
% @float & no caption:
%
\def\Efloat{%
  \let\floatident = \empty
  %
  % In all cases, if we have a float type, it comes first.
  \ifx\floattype\empty \else \def\floatident{\floattype}\fi
  %
  % If we have an xref label, the number comes next.
  \ifx\floatlabel\empty \else \def\floatident{\floattype}\fi
  %
  % the number.
  \appendtomacro{\floatident{\chaplevelprefix\the\floatno}}
\} %
\fi
\vgroup % end of \vtop
%
% place the captured inserts
%
% BEWARE: when the floats start floating, we have to issue warning
% whenever an insert appears inside a float which could possibly
% float. --kasal, 26may04
%
\checkinserts
%
% Append the tokens #2 to the definition of macro #1, not expanding either.
%
\def\appendtomacro#1#2{%
\expandafter\def\expandafter#1\expandafter{#1#2}%
}
%
% @caption, @shortcaption
%
\def\caption{\docaption\thiscaption}
\def\shortcaption{\docaption\thisshortcaption}
\def\docaption{\checkenv\float \bgroup\scanargctxt\defcaption}
\def\defcaption#1#2{\egroup \def#1{#2}}
%
% The parameter is the control sequence identifying the counter we are
% going to use. Create it if it doesn't exist and assign it to \floatno.
\def\getfloatno#1{%
\ifx#1\relax
% Haven't seen this figure type before.
\csname newcount\endcsname #1%
%
% Remember to reset this floatno at the next chap.
\expandafter\gdef\expandafter\resetallfloatnos\expandafter{\resetallfloatnos #1=0 }%
\fi
\let\floatno#1%
}
%
% \setref calls this to get the XREFLABEL-snt value. We want an @xref
% to the FLOATLABEL to expand to "Figure 3.1". We call \setref when we
% first read the @float command.
%
\def\Yfloat{\floattype@tie \chaplevelprefix\the\floatno}%
%
% Magic string used for the XREFLABEL-title value, so \xrefX can
% distinguish floats from other xref types.
Figures without xref labels will not be included in the list (since they won't appear in the aux file).

\def\listoffloatsdo#1\finish{\def\listoffloatsdoentry#1\finish{[ \%
\Can't fully expand XR#1-lof because it can contain anything. Just pass the control sequence. On the other hand, XR#1-pg is just the page number, and we want to fully expand that so we can get a link in pdf output.
\toksA = \expandafter{\csname XR#1-lof\endcsname} \%
% use the same \entry macro we use to generate the TOC and index.
\edef\writeentry{\noexpand\entry{\toksA}{\csname XR#1-pg\endcsname}}\%
\writeentry
}}

\message{localization,}

% For single-language documents, \documentlanguage is usually given very early, just after \documentencoding. Single argument is the language (de) or locale (de_DE) abbreviation.
% {
\catcode`\_ = \active
\globaldefs=1
\parseargdef\documentlanguage{\begingroup
\let_\=\normalunderscore  % normal _ character for filenames
\tex % read txi-??.tex file in plain TeX.
% Read the file by the name they passed if it exists.
\openin 1 txi-#1.tex
\ifeof 1
\documentlanguagetrywithoutunderscore{#1\finish}%
\else
\globaldefs = 1  % everything in the txi-LL files needs to persist
\input txi-#1.tex
\fi
\closein 1
\endgroup % end raw TeX
\endgroup}
% If they passed de_DE, and txi-de_DE.tex doesn't exist, try txi-de.tex.
% \gdef\documentlanguagetrywithoutunderscore#1\_#2\finish{%
\openin 1 txi-#1.tex
\ifeof 1

\repeat

\def\setnonasciicharscatcodenonglobal#1{%
  \count255=128
  \loop\ifnum\count255<256
    \catcode\count255=#1\relax
    \advance\count255 by 1
  \repeat
%
% \documentencoding sets the definition of non-ASCII characters
% according to the specified encoding.
%
% \documentencoding{ }
% Encoding being declared for the document.
% \declaredencoding{csname #1.enc}
%
% Supported encodings: names converted to tokens in order to be able
% to compare them with \ifx.
\def\ascii{\csname US-ASCII.enc\endcsname}
\def\latnine{\csname ISO-8859-15.enc\endcsname}
\def\latone{\csname ISO-8859-1.enc\endcsname}
\def\lattwo{\csname ISO-8859-2.enc\endcsname}
\def\utfeight{\csname UTF-8.enc\endcsname}
%
% \documentencoding \ascii
\asciichardefs
%
% \documentencoding \lattwo
\lattwochardefs
%
% \documentencoding \latone
\latonechardefs
%
% \documentencoding \latnine
\latninechardefs
%
% \documentencoding \utfeight
\utfeightchardefs
%
% \message{Unknown document encoding #1, ignoring.}
\% A message to be logged when using a character that isn't available
\% the default font encoding (OT1).
\%
\def\missingcharmsg#1{\message{Character missing in OT1 encoding: #1.}}
\%
\def\cedilla#1{\ifx\c\ptexc\c{#1}\else\c{#1}\fi}
\%
First, make active non-ASCII characters in order for them to be
\% correctly categorized when TeX reads the replacement text of
\% macros containing the character definitions.
\setnonasciicharscatcode\active
\%
\% Latin1 (ISO-8859-1) character definitions.
\edef\latonechardefs{%
\gdef^^a0{\tie}
\gdef^^a1{\exclamdown}
\gdef^^a2{\missingcharmsg{CENT SIGN}}
\gdef^^a3{\pounds}
\gdef^^a4{\missingcharmsg{CURRENCY SIGN}}
\gdef^^a5{\missingcharmsg{YEN SIGN}}
\gdef^^a6{\missingcharmsg{BROKEN BAR}}
\gdef^^a7{\$}
\gdef^^a8{\textdegree}
\gdef^^a9{\copyright}
\gdef^^aa{\ordf}
\gdef^^ab{\guillemetleft}
\gdef^^ac{\lnot$}
\gdef^^ad{\-}
\gdef^^ae{\registeredsymbol}
\gdef^^af{\textasciitilde}
\%
\gdef^^b0{\textdegree}
\gdef^^b1{\pm$
\gdef^^b2{S\textasciitilde$
\gdef^^b3{S\textasciitilde$
\gdef^^b4{\|}
\gdef^^b5{S\mu$
\gdef^^b6{\}$
\%
\gdef^^b7{S\textasciitilde$}
\def\^fb{\H u}
\def\^fc{\'u}
\def\^fd{\v y}
\def\^fe{\cedilla t}
\def\^ff{\dotaccent{}}

% UTF-8 character definitions.
%
% This code to support UTF-8 is based on LaTeX's utf8.def, with some
% changes for Texinfo conventions. It is included here under the GPL by
% permission from Frank Mittelbach and the LaTeX team.
%
\newcount\countUTFx
\newcount\countUTFy
\newcount\countUTFz

\gdef\UTFviiiTwoOctets#1#2{\expandafter\UTFviiiDefined\csname u8:#1\string #2\endcsname}
%
\gdef\UTFviiiThreeOctets#1#2#3{\expandafter\UTFviiiDefined\csname u8:#1\string #2\string #3\endcsname}
%
\gdef\UTFviiiFourOctets#1#2#3#4{\expandafter\UTFviiiDefined\csname u8:#1\string #2\string #3\string #4\endcsname}

\gdef\UTFviiiDefined#1{\% #1\relax
  \message{\linenumber Unicode char \string #1 not defined for Texinfo}\%
  \else
  \expandafter\UTFviiiLoop
  \fi
}

\begingroup
  \catcode`~13
  \catcode`"12

  \def\UTFviiiLoop{\% #1\relax
    \global\catcode\countUTFx\active
    \uccode`~\countUTFx
    \uppercase\expandafter{\UTFviiiTmp}\%
    \advance\countUTFx by 1
    \ifnum\countUTFx < \countUTFy
      \expandafter\UTFviiiLoop
    \fi
  }

  \countUTFx = "C2
\countUTFy = "E0
\def\UTFviiiTmp{ %
\xdef~{\noexpand\UTFviiiTwoOctets\string~}}
\UTFviiiLoop

\countUTFx = "E0
\countUTFy = "F0
\def\UTFviiiTmp{ %
\xdef~{\noexpand\UTFviiiThreeOctets\string~}}
\UTFviiiLoop

\countUTFx = "F0
\countUTFy = "F4
\def\UTFviiiTmp{ %
\xdef~{\noexpand\UTFviiiFourOctets\string~}}
\UTFviiiLoop
\endgroup

\begingroup
\catcode`\"=12
\catcode`\<=12
\catcode`\.=12
\catcode`\,=12
\catcode`\;=12
\catcode`\!=12
\catcode`\~=13
\gdef\DeclareUnicodeCharacter#1#2{%
\countUTFz = "#1\relax
%\wlog {space space defining Unicode char U+\#1 (decimal \the\countUTFz)}%
\begingroup
\parseXMLCharref
\def\UTFviiiTwoOctets##1##2{%
\csname u8:##1\string ##2\endcsname}%
\def\UTFviiiThreeOctets##1##2##3{%
\csname u8:##1\string ##2\string ##3\endcsname}%
\def\UTFviiiFourOctets##1##2##3##4{%
\csname u8:##1\string ##2\string ##3\string ##4\endcsname}%
\expandafter\expandafter\expandafter\expandafter
\expandafter\expandafter\expandafter\expandafter
\gdef\UTFviiiTmp{#2}%
\endgroup}

\gdef\parseXMLCharref{%
\ifnum\countUTFz < "A0\relax
\errhelp = \EMsimple
\errmessage {Cannot define Unicode char value < 00A0}%
\else\ifnum\countUTFz < "800\relax

---

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\gdef\parseUTFviiiA#1{\%\countUTFz = \countUTFx\divide\countUTFz by 64\countUTFy = \countUTFz\multiply\countUTFz by 64\advance\countUTFx by -\countUTFz\advance\countUTFx by 128\uccode `#1\countUTFx\countUTFz = \countUTFy}\gdef\parseUTFviiiB#1#2#3#4{\advance\countUTFz by #10\relax\uccode `#3\countUTFz\uppercase{\gdef\UTFviiiTmp{#2#3#4}}\endgroup\def\utfeightchardefs{\DeclarerUnicodeCharacter{00A0}{\tie}\DeclarerUnicodeCharacter{00A1}{\exclamdown}\DeclarerUnicodeCharacter{00A3}{\pounds}\DeclarerUnicodeCharacter{00A8}{\"{ }}\DeclarerUnicodeCharacter{00A9}{\copyright}\DeclarerUnicodeCharacter{00AA}{\ordf}\DeclarerUnicodeCharacter{00AB}{\guillemetleft}\DeclarerUnicodeCharacter{00AD}{\-}\DeclarerUnicodeCharacter{00AE}{\registeredsymbol}\DeclarerUnicodeCharacter{00AF}{\= { }}\DeclarerUnicodeCharacter{00B0}{\ringaccent { }}\DeclarerUnicodeCharacter{00B4}{\^ { }}\DeclarerUnicodeCharacter{00B8}{\cedilla { }}\DeclarerUnicodeCharacter{00BA}{\ordm}\DeclarerUnicodeCharacter{00BB}{\guillemetright}\DeclarerUnicodeCharacter{00BF}{\questiondown}
% existing Texinfo documents that may use them, even without declaring a
% document encoding.
%
\setnonasciicharscatcode \other

\message{formatting.}
\newdimen\defaultparindent \defaultparindent = 15pt
\chapheadingskip = 15pt plus 4pt minus 2pt
\secheadingskip = 12pt plus 3pt minus 2pt
\subsecheadingskip = 9pt plus 2pt minus 2pt

% Prevent underfull vbox error messages.
\vbadness = 10000

% Don't be very finicky about underfull hboxes, either.
\hbadness = 6666

% Following George Bush, get rid of widows and orphans.
\widowpenalty=10000
\clubpenalty=10000

% Use Te\TeX\ 3.0's \emergencystretch to help line breaking, but if we're
% using an old version of Te\TeX, don't do anything. We want the amount of
% stretch added to depend on the line length, hence the dependence on
% \hsize. We call this whenever the paper size is set.
%
\def\setemergencystretch{%
  \ifx\emergencystretch\thisisundefined
    \def\emergencystretch{\dimen0}%
  \else
    \emergencystretch = .15\hsize
  \fi
}

% Parameters in order: 1) textheight; 2) textwidth;
% 3) voffset; 4) hoffset; 5) binding offset; 6) topskip;
% 7) physical page height; 8) physical page width.
%
% We also call \setleading{\textleading}, so the caller should define
% \textleading. The caller should also set \parskip.
%
\def\internalpagesizes#1#2#3#4#5#6#7#8{%
  \voffset = #3
  \topskip = #6
  \voffset = #3\relax
  \topskip = #6\relax
% Perhaps we should allow setting the margins, \topskip, \parskip, % and/or leading, also. Or perhaps we should compute them somehow. %
\parseargdef{pagesizes}{\pagesizesyyy #1,\finish}
\def{pagesizesyyy}{#1,#2,#3,\finish}{% 
\setbox0 = \hbox{\ignorespaces #2}\ifdim\wd0 > 0pt \hsize=#2\relax \fi 
\globaldefs = 1 
\parskip = 3pt plus 2pt minus 1pt 
\setleading{\textleading} %
\dimen0 = #1\relax 
\advance\dimen0 by \voffset 
\dimen2 = \hsize 
\advance\dimen2 by \normaloffset 
\internalpagesizes{#1}{\hsize} %
{\voffset}{\normaloffset} %
{\bindingoffset}{44pt} %
{\dimen0}{\dimen2} %
}
% Set default to letter. 
%\letterpaper

\message{and turning on texinfo input format.}
\def{^^L}{\par} % remove \outer, so ^L can appear in an @comment
% DEL is a comment character, in case @c does not suffice. 
catcode{\^^?} = 14

% Define macros to output various characters with catcode for normal text. 
catcode{\^}=other \def\normaldoublequote{"} 
catcode{\$}=other \def\normaldollar{$} %$ font-lock fix 
catcode{\+}=other \def\normalplus{+} 
catcode{\<}=other \def\normalless{<} 
catcode{\>}=other \def\normalgreater{>} 
catcode{\^}=other \def\normalcaret{^} 
catcode{\_=}=other \def\normalunderscore{_} 
catcode{\|}=other \def\normalverticalbar{|} 
catcode{~}=other \def\normaltilde{~}
% This macro is used to make a character print one way in \tt
% (where it can probably be output as-is), and another way in other fonts,
% where something hairier probably needs to be done.
%
% #1 is what to print if we are indeed using \tt; #2 is what to print
% otherwise. Since all the Computer Modern typewriter fonts have zero
% interword stretch (and shrink), and it is reasonable to expect all
% typewriter fonts to have this, we can check that font parameter.
%
\def\ifusingtt#1#2{\ifdim \fontdimen3\font=0pt \expandafter #1 \else \expandafter #2 \fi}

% Same as above, but check for italic font. Actually this also catches
% non-italic slanted fonts since it is impossible to distinguish them from
% italic fonts. But since this is only used by $ and it uses \sl anyway
% this is not a problem.
\def\ifusingit#1#2{\ifdim \fontdimen1\font>0pt \expandafter #1 \else \expandafter #2 \fi}

% Turn off all special characters except @
% (and those which the user can use as if they were ordinary).
% Most of these we simply print from the \tt font, but for some, we can
% use math or other variants that look better in normal text.

\catcode`\"=\active
\def\activedoublequote{{\tt\char34}}
\let"=\activedoublequote
\catcode`~\active
\def~{{\tt\char126}}
\chardef\hat=`\^\active
\catcode`^\active
\def^{{\tt \hat}}
\catcode`_\active
\def_{{\tt \realunder}}
\chardef \realunder=\_\active

% Subroutine for the previous macro.
\def\_(\ifusingtt\normalunderscore\_){
\let\reallunder=_
%
\catcode`\$=\active
\def\ifusingit{\if\$\$\normal\$\ \active\$\$}\font-lock fix

% If a .fmt file is being used, characters that might appear in a file
% name cannot be active until we have parsed the command line.
% So turn them off again, and have \everyjob (or @setfilename) turn them on.
% \otherifyactive is called near the end of this file.
\def\otherifyactive{\catcode`+\other\catcode`\_\other}

% Used sometimes to turn off (effectively) the active characters even after
% parsing them.
\def\turnoffactive{\normalturnoffactive\otherbackslash}
\catcode`\@=0

% \backslashcurfont outputs one backslash character in current font,
% as in \char`\.\$
\global\chardef\backslashcurfont=`\$
\global\let\rawbackslashxx=\backslashcurfont % let existing .??s files work
\{\catcode`\=\other \global@def@realbackslash{\} \global@def@doublebackslash{\\} \}

% In texinfo, backslash is an active character; it prints the backslash
% in fixed width font.
\catcode`\\=\active % @ for escape char from now on.

% The story here is that in math mode, the \char of \backslashcurfont
% ends up printing the roman \ from the math symbol font (because \char
% in math mode uses the \mathcode, and plain.tex sets
% \mathcode`\\=026E). It seems better for \backslashchar{} to always
% print a typewriter backslash, hence we use an explicit \mathchar,
% which is the decimal equivalent of \texttt{715c} (class 7, e.g., use \fam;
% ignored family value; char position \texttt{5C}). We can't use " for the
% usual hex value because it has already been made active.
@def@normalbackslash[ \let @ifmmode \mathchar29020 @else @backslashcurfont @fi ]
@let@backslashchar = @normalbackslash % \backslashchar{} is for user documents.

% On startup, @fixbackslash assigns:
@let \ = @normalbackslash
% \rawbackslash defines an active \ to do \backslashcurfont.
% \otherbackslash defines an active \ to be a literal `\ character with
% catcode other. We switch back and forth between these.
@gdef@rawbackslash[ @let=@@backslashcurfont]
% Same as @turnoffactive except outputs \ as \{\textbackslash\} instead of
% the literal character \'. Also revert - to its normal character, in
% case the active - from code has slipped in.
%
{%
\catcode`- = \active
\gdef@normalturnoffactive{%
  \let-=\normaldash
  \let"=\normaldoublequote
  \let$=\normaldollar %$ font-lock fix
  \let+=\normalplus
  \let<=\normalless
  \let>=\normalgreater
  \let\=@normalbackslash
  \let^=@normalcaret
  \let_=@normalunderscore
  \let|=@normalverticalbar
  \let~=@normaltilde
  \markupsetuplqdefault
  \markupsetuprqdefault
  \unsepspaces
%
%
% Make _ and + \other characters, temporarily.
% This is canceled by @fixbackslash.
  \otherifyactive
%
% If a .fmt file is being used, we don’t want the `\input texinfo’ to show up.
% That is what `eatinput is for; after that, the `\ should revert to printing
% a backslash.
%
\gdef@eatinput input texinfo{ @fixbackslash}
\global@let\ = @eatinput
%
% On the other hand, perhaps the file did not have a `\input texinfo’. Then
% the first `\ in the file would cause an error. This macro tries to fix
% that, assuming it is called before the first `\ could plausibly occur.
% Also turn back on active characters that might appear in the input
% file name, in case not using a pre-dumped format.
%
\gdef@fixbackslash{%
  @ifx\@eatinput @let\ = @normallbackslash @fi
  \catcode`+=@active
  \catcode`_=@active
}
% Say @foo, not \foo, in error messages.
@escapechar = ` @@

% These (along with & and #) are made active for url-breaking, so need
% active definitions as the normal characters.
@def@normaldot{.}
@def@normalquest{?}
@def@normalslash{/}

% These look ok in all fonts, so just make them not special.
% @hashchar{} gets its own user-level command, because of #line.
@catcode`@& = @other @def@normalamp{&}
@catcode`@# = @other @def@normalhash{#}
@catcode`@% = @other @def@normalpercent{%}

@let @hashchar = @normalhash

@c Finally, make ` and `' active, so that txicodequoteundirected and
@c txicodequotebacktick work right in, e.g., @w{ @code{`foo'}}. If we
@c don't make ` and `' active, @code will not get them as active chars.
@c Do this last of all since we use ` in the previous @catcode assignments.
@catcode`@` = @active
@catcode`@' = @active
@markupsetuplqdefault
@markupsetuprqdefault

@c Local variables:
@c eval: (add-hook 'write-file-hooks 'time-stamp)
@c page-delimiter: "^\\message"
@c time-stamp-start: "def\\texinfoversion{"
@c time-stamp-format: "%y-%02m-%02d.%02H"
@c time-stamp-end: "}"
@c End:

c
@ignore
arch-tag: e1b36e32-c96e-4135-a41a-0b2efa2ea115
@end ignore

1.64 libffi/doc 3.2.1
1.64.1 Available under license:

#!/bin/sh

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# GCC-compatible wrapper for cl.exe and ml.exe. Arguments are given in GCC
# format and translated into something sensible for cl or ml.
#

args_orig=$@
args="-nologo -W3"
static_crt=
debug_crt=
cl="cl"
ml="ml"
safeseh="-safeseh"
output=
while [ $# -gt 0 ]
do
case $1
in
  -fexceptions)
    # Don't enable exceptions for now.
    #args="$args -EHac"
    shift 1
    ;;
  -m32)
    shift 1
    ;;
  -m64)
    ml="ml64" # "$MSVC/x86_amd64/ml64"
    safeseh=
    shift 1
    ;;
  -clang-cl)
    cl="clang-cl"
    safeseh=
    shift 1
    ;;
  -O0)
    args="$args -Od"
    shift 1
    ;;
  -O*)
    # Runtime error checks (enabled by setting -RTC1 in the -DFFI_DEBUG
    # case below) are not compatible with optimization flags and will
    # cause the build to fail. Therefore, drop the optimization flag if
    # -DFFI_DEBUG is also set.
    case $args_orig in
    *-DFFI_DEBUG*)
      args="$args"
      ;;
    *)
      # The ax_cc_maxopt.m4 macro from the upstream autoconf-archive
      # project doesn't support MSVC and therefore ends up trying to
      # use -O3. Use the equivalent "max optimization" flag for MSVC
      # instead of erroring out.
      case $1 in
        -O3)
          args="$args -O2"
          ;;
        *)
          args="$args $1"
          ;;
    esac
  esac

esac
  opt="true"
;;
esac
shift 1
;;
-g)
# Enable debug symbol generation.
args="$args -Zi"
shift 1
;;
-DFFI_DEBUG)
# Enable runtime error checks.
args="$args -RTC1"
defines="$defines $1"
shift 1
;;
-DUSE_STATIC_RTL)
# Link against static CRT.
static_crt=1
shift 1
;;
-DUSE_DEBUG_RTL)
# Link against debug CRT.
d debug_crt=1
shift 1
;;
-c)
  args="$args -c"
  args="$(echo $args | sed 's%/Fe%/Fo%g')"
  single="-c"
  shift 1
;;
-D=+)
  name="$(echo $1|sed 's/-D([^=]+)=.*//g')"
  value="$(echo $1|sed 's/-D([^=]+)=.*//g')"
  args="$args -D$[name]="$value"
  defines="$defines -D$[name]="$value"
  shift 1
;;
-D*)
  args="$args $1"
  defines="$defines $1"
  shift 1
;;
-I)
  args="$args -I$2"
  includes="$includes -I$2"
shift 2
::
-I*)
  args="$args $1"
  includes="$includes $1"
  shift 1
::
-W[\-Wextra)
  # TODO map extra warnings
  shift 1
::
-Wall)
  # -Wall on MSVC is overzealous, and we already build with -W3. Nothing
  # to do here.
  shift 1
::
-pedantic)
  # libffi tests -pedantic with -Wall, so drop it also.
  shift 1
::
-Werror)
  args="$args -WX"
  shift 1
::
-W*)
  # TODO map specific warnings
  shift 1
::
-S)
  args="$args -FAs"
  shift 1
::
-o)
  outdir="$(dirname $2)"
  base="$(basename $2|sed 's/\.[^.]*/\g/')"
  if [ -n "$single" ]; then
    output="-Fo$2"
  else
    output="-Fe$2"
  fi
  if [ -n "$assembly" ]; then
    args="$args $output"
  else
    args="$args $output -Fd$outdir/$base -Fp$outdir/$base -Fa$outdir/$base"
  fi
  shift 2
::
-*.S)
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There is no visible text content in the image.
% of date, so if that's what you're using, please check.
%
% Send bug reports to bug-texinfo@gnu.org. Please include including a
% complete document in each bug report with which we can reproduce the
% problem. Patches are, of course, greatly appreciated.
%
% To process a Texinfo manual with TeX, it's most reliable to use the
% texi2dvi shell script that comes with the distribution. For a simple
% manual foo.texi, however, you can get away with this:
% tex foo.texi
% texindex foo.??
% tex foo.texi
% tex foo.texi
% dvips foo.dvi -o # or whatever; this makes foo.ps.
% The extra TeX runs get the cross-reference information correct.
% Sometimes one run after texindex suffices, and sometimes you need more
% than two; texi2dvi does it as many times as necessary.
%
% It is possible to adapt texinfo.tex for other languages, to some
% extent. You can get the existing language-specific files from the
% full Texinfo distribution.
%
% The GNU Texinfo home page is http://www.gnu.org/software/texinfo.

\message{Loading texinfo [version \texinfoversion]:}

% If in a .fmt file, print the version number
% and turn on active characters that we couldn't do earlier because
% they might have appeared in the input file name.
\everyjob{\message{[Texinfo version \texinfoversion]}}
% \catcode`+=\active \catcode`\_=\active}
\chardef\other=12

% We never want plain's \outer definition of \+ in Texinfo.
% For @tex, we can use \tabalign.
\let\+=\relax

% Save some plain tex macros whose names we will redefine.
\let\ptexb=\b
\let\ptexbullet=\bullet
\let\ptexc=\c
\let\ptexcomma=\,\end
\let\ptexequiv=\equiv
\let\ptexdot=\.
\let\ptexdots=\dots
\let\ptexend=\end
\let\ptexequiv=\equiv
\chardef\spacecat = 10
\def\spaceisspace{\catcode`\ =\spacecat}

\chardef\ampChar   = `\&
\chardef\colonChar = `:\
\chardef\commaChar = `,
\chardef\dashChar  = `-
\chardef\dotChar   = `.
\chardef\exclamChar= `!
\chardef\hashChar  = `#
\chardef\lquoteChar= ``
\chardef\questChar = `?
\chardef\rquoteChar= `'
\chardef\semiChar  = `;
\chardef\slashChar = `\/
\chardef\underChar = `\_ 

% Ignore a token.
%
\def\gobble#1{}
% The following is used inside several \edef's.
\edef\makecsname#1{\expandafter\noexpand\csname#1\endcsname}

% Hyphenation fixes.
\hyphenation{
Flor-i-da Ghost-script Ghost-view Mac-OS Post-Script
ap-pen-dix bit-map bit-maps
data-base data-bases eshell fall-ing half-way long-est man-u-script
man-u-scripts mini-buf-fer mini-buf-fers over-view par-a-digm
par-a-digms rath-er rec-tan-gu-lar ro-bot-ics se-vere-ly set-up spa-ces
spell-ing spell-ings
stand-alone strong-est time-stamp time-stamps which-ever white-space
wide-spread wrap-around
}

% Margin to add to right of even pages, to left of odd pages.
\newdimen\bindingoffset
\newdimen\normaloffset
\newdimen\pagewidth \newdimen\pageheight

% For a final copy, take out the rectangles
% that mark overfull boxes (in case you have decided
% that the text looks ok even though it passes the margin).
%
\def\finalout{\overfullrule=0pt }

% Sometimes it is convenient to have everything in the transcript file
% and nothing on the terminal. We don't just call \tracingall here,
% since that produces some useless output on the terminal. We also make
% some effort to order the tracing commands to reduce output in the log
% file; cf. trace.sty in LaTeX.
%
\def\gloggingall{\begingroup \globaldefs = 1 \loggingall \endgroup}\
\def\loggingall{\tracingstats2\tracingpages1\tracinglostchars2  % 2 gives us more in etex\tracingparagraphs1\tracingoutput1\tracingmacros2\tracingrestores1\showboxbreadth\maxdimen \showboxdepth\maxdimen\ifx\eTeXversion\thisisundefined\else % etex gives us more logging\tracingscantokens1\tracingifs1\tracinggroups1\tracingnesting2
}
\tracingassigns1
\fi
\tracingcommands3  \% 3 gives us more in etex
\errorcontextlines16
%
% \@errormsg{MSG}.  Do the index-like expansions on MSG, but if things
% aren't perfect, it's not the end of the world, being an error message,
% after all.
%
def\errormsg{\begingroup \indexnofonts \doerrormsg}
def\doerrormsg#1{\errmessage{#1}}
%
% add check for \lastpenalty to plain's definitions. If the last thing
% we did was a \nobreak, we don't want to insert more space.
%
def\smallbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\smallskipamount
\removelastskip\penalty-50\smallskip\fi\fi}
def\medbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\medskipamount
\removelastskip\penalty-100\medskip\fi\fi}
def\bigbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\bigskipamount
\removelastskip\penalty-200\bigskip\fi\fi}
%
% Do @cropmarks to get crop marks.
%
def\if\cropmarks
\let\cropmarks = \cropmarkstrue
%
% Dimensions to add cropmarks at corners.
% Added by P. A. MacKay, 12 Nov. 1986
%
def\outershsize \newdimen\outervsize \newdimen\cornerlong \cornerlong=1pc
\newdimen\cornerthick \cornerthick=.3pt
\newdimen\topandbottommargin \topandbottommargin=.75in
%
% Output a mark which sets \thischapter, \thissection and \thiscolor.
% We dump everything together because we only have one kind of mark.
% This works because we only use \botmark / \topmark, not \firstmark.
%
% A mark contains a subexpression of the \ifcase ... \fi construct.
% \get*marks macros below extract the needed part using \ifcase.
%
% Another complication is to let the user choose whether \thischapter
% (\thissection) refers to the chapter (section) in effect at the top
% of a page, or that at the bottom of a page.  The solution is
% described on page 260 of The TeXbook.  It involves outputting two
% marks for the sectioning macros, one before the section break, and
% one after. I won't pretend I can describe this better than DEK...
\def\domark{%
  \toks0=\expandafter{\lastchapterdefs}%
  \toks2=\expandafter{\lastsectiondefs}%
  \toks4=\expandafter{\prevchapterdefs}%
  \toks6=\expandafter{\prevsectiondefs}%
  \toks8=\expandafter{\lastcolordefs}%
  \mark{%
    \the\toks0 \the\toks2
    \noexpand\or \the\toks4 \the\toks6
    \noexpand\else \the\toks8
  }%
}
% \topmark doesn't work for the very first chapter (after the title
% page or the contents), so we use \firstmark there -- this gets us
% the mark with the chapter defs, unless the user sneaks in, e.g.,
% @setcolor (or @url, or @link, etc.) between @contents and the very
% first @chapter.
\def\gettopheadingmarks{%
  \ifcase0\topmark\fi 
  \ifx\thischapter\empty \ifcase0\firstmark\fi \fi
}
\def\getbottomheadingmarks{\ifcase1\botmark\fi}
\def\getcolormarks{\ifcase2\topmark\fi}
% Avoid "undefined control sequence" errors.
\def\lastchapterdefs{ }
\def\lastsectiondefs{ }
\def\prevchapterdefs{ }
\def\prevsectiondefs{ }
\def\lastcolordefs{ }

% Main output routine.
\chardef\PAGE = 255
\output = {\onepageout{\pagecontents\PAGE}}

\newbox\headlinebox
\newbox\footlinebox

% \onepageout takes a vbox as an argument. Note that \pagecontents
% does insertions, but you have to call it yourself.
\def\onepageout#1{%
  \ifcropmarks \hoffset=0pt \else \hoffset=\normaloffset \fi
  %
  \ifodd\pageno \advance\hoffset by \bindingoffset
    \else \advance\hoffset by -\bindingoffset \fi
  %
  % Do this outside of the \shipout so @code etc. will be expanded in
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\% Parse an argument, then pass it to \#1. The argument is the rest of
\% the input line (except we remove a trailing comment). \#1 should be a
\% macro which expects an ordinary undelimited TeX argument.
\%
\def\parsearg{\parseargusing{ }}
\def\parseargusing#1\#2{\%
  \def\argtorun{#2}\
  \begingroup
    \obeylines
    \spaceisspace
  #1\
  \parseargline\empty% Insert the \empty token, see \finishparsearg below.
  }
  {\obeylines %
    \gdef\parseargline#1^^M{\
      \endgroup % End of the group started in \parsearg.
      \argremovecomment #1\comment\ArgTerm%\%
    }%}
  }
  % First remove any @comment, then any @c comment.
  \def\argremovecomment#1\comment#2\ArgTerm{\argremovec #1\c#2\ArgTerm}
  \def\argremovec#1\c#2\ArgTerm{\argcheckspaces#1\^^M\ArgTerm}
  % Each occurrence of `\^^M' or `<space>\^^M' is replaced by a single space.
  %
  % \argremovevec might leave us with trailing space, e.g.,
  %  @end itemize  @c foo
  % This space token undergoes the same procedure and is eventually removed
  % by \finishparsearg.
  %
  \def\argcheckspaces#1\^^M{\argcheckspacesX#1\^^M \^^M}
  \def\argcheckspacesX#1 \^^M#2\^^M#3\ArgTerm{%
    \def\temp{#3}\
    \ifx\temp\empty
      % Do not use \next, perhaps the caller of \parsearg uses it; reuse \temp:
      \let\temp\finishparsearg
    \else
      \let\temp\argcheckspaces
    \fi
    % Put the space token in:
    \temp#1 #3\ArgTerm
  }
% If a _delimited_ argument is enclosed in braces, they get stripped; so
% to get _exactly_ the rest of the line, we had to prevent such situation.
% We prepended an 'empty token at the very beginning and we expand it now,
% just before passing the control to \argtorun.
% (Similarly, we have to think about #3 of \argcheckspacesY above: it is
% either the null string, or it ends with \^\^M---thus there is no danger
% that a pair of braces would be stripped.
%
% But first, we have to remove the trailing space token.
%
\def\finishparsearg#1 \ArgTerm{\expandafter{\argtorun{\expandafter{#1}}}}

% \parseargdef\foo{...}
% is roughly equivalent to
% \def\foo{\parsearg{Xfoo}}
% \def\Xfoo#1{...}
%
% Actually, I use \csname\string\foo\endcsname, ie. \foo, as it is my
% favourite TeX trick. --kasal, 16nov03

\def\parseargdef#1{\%
\expandafter \doparseargdef \csname\string#1\endcsname #1\%
}\doparseargdef#1#2{\%
\def#2{\parsearg#1}\
\def#1##1\%
}

%
% Several utility definitions with active space:
%
\obeyspaces
\gdef\obeyedspace{ }
%
% Make each space character in the input produce a normal interword
% space in the output. Don't allow a line break at this space, as this
% is used only in environments like @example, where each line of input
% should produce a line of output anyway.
%
\gdef\sepspaces{\obeyspaces\let =\tie}

% If an index command is used in an @example environment, any spaces
% therein should become regular spaces in the raw index file, not the
% expansion of \tie (\leavevmode \penalty \@M \ ).
\gdef\unsepspaces{\let =\space}

\flushcr
% Define the framework for environments in texinfo.tex. It's used like this:
%
% \envdef\foo{...}
% \def\Efoo{...}
%
% It's the responsibility of \envdef to insert \begingroup before the
% actual body; @end closes the group after calling \Efoo. \envdef also
% defines \thisenv, so the current environment is known; @end checks
% whether the environment name matches. The \checkenv macro can also be
% used to check whether the current environment is the one expected.
%
% Non-false conditionals (@iftex, @ifset) don't fit into this, so they
% are not treated as environments; they don't open a group. (The
% implementation of @end takes care not to call \endgroup in this
% special case.)

% At run-time, environments start with this:
\def\startenvironment#1{\begingroup\def\thisenv{#1}}
% initialize
\let\thisenv\empty

% ... but they get defined via ``\envdef\foo{...}'':
\long\def\envdef#1#2{\def#1{\startenvironment#1#2}}
\def\envpargdef#1#2{\parseargdef#1{\startenvironment#1#2}}

% Check whether we're in the right environment:
\def\checkenv#1{\def\temp{#1}\if\thisenv\temp\else\badenverr\fi}
\def\badenverr{\errhelp = \EMsimple\errmessage{This command can appear only \inenvironment\temp,\not \inenvironment\thisenv} }
\def\inenvironment#1{\if\#1\empty outside of any environment\else in environment \expandafter\string#1\fi}
% @end foo executes the definition of \Efoo.
% But first, it executes a specialized version of \checkenv
%
\parexample{\end{
\if \csname iscond.#1\endcsname
\else
  % The general wording of \badenverr may not be ideal.
  \expandafter\checkenv\csname#1\endcsname
  \csname E#1\endcsname
  \endgroup
\fi
}

\newhelp\EMsimple{Press RETURN to continue.}

% Be sure we’re in horizontal mode when doing a tie, since we make space
% equivalent to this in @example-like environments. Otherwise, a space
% at the beginning of a line will start with \penalty -- and
% since \penalty is valid in vertical mode, we’d end up putting the
% penalty on the vertical list instead of in the new paragraph.
{\catcode`@ = 11
% Avoid using \@M directly, because that causes trouble
% if the definition is written into an index file.
\global\let\tiepenalty = \@M
\gdef\tie{\leavevmode\penalty\tiepenalty}
}

% @: forces normal size whitespace following.
\def\{\spacefactor=1000 }

% @* forces a line break.
\def*@{\unskip\hfil\break\hbox{}\ignorespaces}

% @/ allows a line break.
\def@/=\allowbreak

% @. is an end-of-sentence period.
\def@.\{\spacefactor=\endofsentencespacefactor\space}

% @! is an end-of-sentence bang.
\def@!\{\spacefactor=\endofsentencespacefactor\space}

% @? is an end-of-sentence query.
\def@?\{\spacefactor=\endofsentencespacefactor\space}
% @frenchspacing on|off says whether to put extra space after punctuation.
%
\def\onword{on}
\def\offword{off}
%
\parseargdef\frenchspacing{%
\def\temp{#1}%
\ifx\temp\onword \plainfrenchspacing
\else\ifx\temp\offword \plainnonfrenchspacing
\else
\errhelp = \EMsimple
\errmessage{Unknown @frenchspacing option \`\temp', must be on|off}%
\fi\fi
}
%
% @w prevents a word break. Without the \leavevmode, @w at the
% beginning of a paragraph, when TeX is still in vertical mode, would
% produce a whole line of output instead of starting the paragraph.
\def\w#1{\leavevmode\hbox{#1}}
%
% @group ... @end group forces ... to be all on one page, by enclosing
% it in a TeX vbox. We use \vtop instead of \vbox to construct the box
% to keep its height that of a normal line. According to the rules for
% \topskip (p.114 of the TeXbook), the glue inserted is
% max (\topskip - \ht (first item), 0). If that height is large,
% therefore, no glue is inserted, and the space between the headline and
% the text is small, which looks bad.
%
% Another complication is that the group might be very large. This can
% cause the glue on the previous page to be unduly stretched, because it
% does not have much material. In this case, it's better to add an
% explicit \vfill so that the extra space is at the bottom. The
% threshold for doing this is if the group is more than \vfilllimit
% percent of a page (\vfilllimit can be changed inside of @tex).
%
\newbox\groupbox
\def\vfilllimit{0.7}
%
\envdef\group{%
\ifnum\catcode`\^^M=\active \else
\errhelp = \groupinvalidhelp
\errmessage{@group invalid in context where filling is enabled}%
\fi
\startsavinginserts
%
\setbox\groupbox = \vtop\bgroup
% Do @comment since we are called inside an environment such as
% @example, where each end-of-line in the input causes an
% end-of-line in the output. We don't want the end-of-line after
% the `@group' to put extra space in the output. Since @group
% should appear on a line by itself (according to the Texinfo
% manual), we don't worry about eating any user text.
\comment
\}
%
% The \vtop produces a box with normal height and large depth; thus, TeX puts
% \baselineskip glue before it, and (when the next line of text is done)
% \lineskip glue after it. Thus, space below is not quite equal to space
% above. But it's pretty close.
\def\Egroup{%
% To get correct interline space between the last line of the group
% and the first line afterwards, we have to propagate \prevdepth.
% \endgraf % Not \par, as it may have been set to \dispar.
% \global\dimen1 = \prevdepth
\egroup % End the \vtop.
% \dimen0 is the vertical size of the group's box.
% \dimen0 = $\ht\groupbox \advance\dimen0 by \dp\groupbox$
% \dimen2 is how much space is left on the page (more or less).
% \dimen2 = $\pageheight \advance\dimen2 by \pagetotal$
% if the group doesn't fit on the current page, and it's a big big
% group, force a page break.
% \ifdim \dimen0 > \dimen2
% \ifdim \pagetotal < \vfilllimit\pageheight
% \page
% \fi
% \fi
% \box\groupbox
\prevdepth = \dimen1
\checkinserts
}
%
% TeX puts in an \escapechar (i.e., `@') at the beginning of the help
% message, so this ends up printing `@group can only ...
% group can only be used in environments such as \example,\^\textcopyright%
% where each line of input produces a line of output.}
%
\newhelp\groupinvalidhelp{%
% @need space-in-mils
% forces a page break if there is not space-in-mils remaining.

\newdimen\mil \mil=0.001in

\parseargdef\need{%
% Ensure vertical mode, so we don't make a big box in the middle of a
% paragraph.
\par
%
% If the @need value is less than one line space, it's useless.
\dimen0 = #1\mil
\dimen2 = \ht\strutbox
\advance\dimen2 by \dp\strutbox
\ifdim\dimen0 > \dimen2
%
% Do a \strut just to make the height of this box be normal, so the
% normal leading is inserted relative to the preceding line.
% And a page break here is fine.
\vtop to #1\mil{\strut\vfil}%%
%
% TeX does not even consider page breaks if a penalty added to the
% main vertical list is 10000 or more. But in order to see if the
% empty box we just added fits on the page, we must make it consider
% page breaks. On the other hand, we don't want to actually break the
% page after the empty box. So we use a penalty of 9999.
%
% There is an extremely small chance that TeX will actually break the
% page at this \penalty, if there are no other feasible breakpoints in
% sight. (If the user is using lots of big @group commands, which
% almost-but-not-quite fill up a page, TeX will have a hard time doing
% good page breaking, for example.) However, I could not construct an
% example where a page broke at this \penalty; if it happens in a real
% document, then we can reconsider our strategy.
\penalty9999%
%
% Back up by the size of the box, whether we did a page break or not.
\kern -#1\mil
%
% Do not allow a page break right after this kern.
\nobreak
\fi
}

% @br forces paragraph break (and is undocumented).
\let\br = \par

% @page forces the start of a new page.
%
\def\page{\par\vfill\supereject}

% @exdent text....
% outputs text on separate line in roman font, starting at standard page margin

% This records the amount of indent in the innermost environment.
% That's how much \exdent should take out.
\newskip\exdentamount

% This defn is used inside fill environments such as @defun.
\parseargdef\exdent{\hfil\break\hbox{\kern -\exdentamount{\rm#1}}\hfil\break}

% This defn is used inside nofill environments such as @example.
\parseargdef\nofill\exdent{\vskip -\exdentamount{\leftskip by -\exdentamount
\leftline{\hskip\leftskip{\rm#1}}}}

% @inmargin{WHICH}{TEXT} puts TEXT in the WHICH margin next to the current
% paragraph. For more general purposes, use the \margin insertion
% class. WHICH is `l' or `r'. Not documented, written for gawk manual.
% \newskip\inmarginspacing \inmarginspacing=1cm
\def\strutdepth{\dp\strutbox}
\def\doinmargin#1#2{\strut\vadjust{\nobreak\kern-\strutdepth\vtop to \strutdepth{\baselineskip=\strutdepth\vss
% if you have multiple lines of stuff to put here, you'll need to
% make the vbox yourself of the appropriate size.
\ifx#1l\llap{\ignorespaces #2\hskip\inmarginspacing}\else\rlap{\hskip\hsize \hskip\inmarginspacing \ignorespaces #2}\fi
\null}}
\def\inleftmargin{\doinmargin l}
\def\inrightmargin{\doinmargin r}
\def\inmargin#1{\parseinmargin #1,,\finish}% not perfect, but better than nothing.
\setbox0 = \hbox{\ignorespaces #2}\ifdim\wd0 > 0pt\def\lefttext{#1}% have both texts
\def\righttext{#2}% else use TEXT for both.
\fi\null\}
\def\inleftmargin{\doinmargin l}
\def\inrightmargin{\doinmargin r}
%
% @inmargin{TEXT [, RIGHT-TEXT]}% (if RIGHT-TEXT is given, use TEXT for left page, RIGHT-TEXT for right;
% else use TEXT for both).
% \def\inmargin#1{\parseinmargin #1,,\finish}% not perfect, but better than nothing.
\setbox0 = \hbox{\ignorespaces #2}\ifdim\wd0 > 0pt\def\lefttext{#1}% have both texts
\def\righttext{#2}\else\def\lefttext{#1}% have only one text

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\% \parseargdef{\paragraphindent}{\%}
\def{\temp}{#1}\%
\ifx\temp\asisword
\else
\ifx\temp\noneword
\defaultparindent = 0pt
\else
\defaultparindent = #1em
\fi
\fi
\parindent = \defaultparindent
\
\% \@exampleindent NCHARS
\% We'll use ems for NCHARS like \@paragraphindent.
\% It seems \@exampleindent\asis isn't necessary, but
\% I preserve it to make it similar to \@paragraphindent.
\parseargdef{\exampleindent}{\%}
\def{\temp}{#1}\%
\ifx\temp\asisword
\else
\ifx\temp\noneword
\lispnarrowing = 0pt
\else
\lispnarrowing = #1em
\fi
\fi
\%
\% \@firstparagraphindent WORD
\% If WORD is `none', then suppress indentation of the first paragraph
\% after a section heading. If WORD is `insert', then do indent at such
\% paragraphs.
\%
\% The paragraph indentation is suppressed or not by calling
\% \suppressfirstparagraphindent, which the sectioning commands do.
\% We switch the definition of this back and forth according to WORD.
\% By default, we suppress indentation.
\%
\def{\suppressfirstparagraphindent}{\dosuppressfirstparagraphindent}\%
\def{\insertword}{insert}\%
\parseargdef{\firstparagraphindent}{\%}
\def{\temp}{#1}\%
\ifx\temp\noneword
\let{\suppressfirstparagraphindent} = \dosuppressfirstparagraphindent
\else\ifx\temp\insertword
\dosuppressfirstparagraphindent = \insertword
\fi
\fi
\
\let\suppressfirstparagraphindent = \relax
\else
  \errhelp = \EMsimple
  \errmessage{Unknown @firstparagraphindent option `\temp'} %
\fi
%
% Here is how we actually suppress indentation. Redefine \everypar to
% \kern backwards by \parindent, and then reset itself to empty.
%
% We also make \indent itself not actually do anything until the next
% paragraph.
%
\gdef\dosuppressfirstparagraphindent{%
  \gdef\indent{%
    \restorefirstparagraphindent
    \indent
  }%
  \gdef\noindent{%
    \restorefirstparagraphindent
    \noindent
  }%
  \global\everypar = {%
    \kern -\parindent
    \restorefirstparagraphindent
  }%
}
%
\gdef\restorefirstparagraphindent{%
  \global \let \indent = \ptexindent
  \global \let \noindent = \ptexnoindent
  \global \everypar = {}
}
%
% @refill is a no-op.
\let\refill=\relax
%
% If working on a large document in chapters, it is convenient to
% be able to disable indexing, cross-referencing, and contents, for test runs.
% This is done with @novalidate (before @setfilename).
%
\newif\iflinks \linkstrue % by default we want the aux files.
\let\novalidate = \linksfalse
%
% @setfilename is done at the beginning of every texinfo file.
% So open here the files we need to have open while reading the input.
% This makes it possible to make a .fmt file for texinfo.
\def\setfilename{% 
\fixbackslash \% Turn off hack to swallow \texttt{\textasciitilde input texinfo}.
\iflinks
\tryauxfile
\% Open the new aux file. \TeX{} will close it automatically at exit.
\immediate\openout\auxfile=\jobname.aux
\fi \% \openindices needs to do some work in any case.
\openindices
\if\setfilename=\comment \% Ignore extra \setfilename cmds.
\%
\% If texinfo.cnf is present on the system, read it.
\% Useful for site-wide \texttt{afourpaper}, etc.
\openin 1 texinfo.cnf
\ifeof 1 \else \input texinfo.cnf \fi
\closein 1
\%
\comment \% Ignore the actual filename.
}

\% Called from \setfilename.
%
\def\openindices{% 
\newindex{cp}%
\newcodeindex{fn}%
\newcodeindex{vr}%
\newcodeindex{tp}%
\newcodeindex{ky}%
\newcodeindex{pg}%
}

\% \texttt{\bye}.
\outer\def\bye{\pagealignmacro\tracingstats=1\ptexend}

\message{pdf,}
\% adobe \texttt{'portable'} document format
\newcount\tempnum
\newcount\lnkcount
\newtoks\filename
\newcount\filenamelength
\newcount\pgn
\newtoks\toksA
\newtoks\toksB
\newtoks\toksC
\newtoks\toksD
\newbox\boxA
\newcount\countA
\newif\ifpdf
\newif\ifpdfmakepagedest

% when pdftex is run in dvi mode, \pdfoutput is defined (so \pdfoutput=1
% can be set). So we test for \relax and 0 as well as being undefined.
\ifx\pdfoutput\thisisundefined
\else
\ifx\pdfoutput\relax
\else
\ifcase\pdfoutput
\else
\pdftrue
\fi
\fi
\fi

% PDF uses PostScript string constants for the names of xref targets,
% for display in the outlines, and in other places. Thus, we have to
% double any backslashes. Otherwise, a name like "node" will be
% interpreted as a newline (\n), followed by o, d, e. Not good.
%
% See http://www.ntg.nl/pipermail/ntg-pdftex/2004-July/000654.html and
% related messages. The final outcome is that it is up to the TeX user
% to double the backslashes and otherwise make the string valid, so
% that's what we do. pdftex 1.30.0 (ca.2005) introduced a primitive to
% do this reliably, so we use it.

% #1 is a control sequence in which to do the replacements,
% which we \xdef.
\def\txiescapepdf#1{%
\ifx\pdfescapestring\thisisundefined
% No primitive available; should we give a warning or log?
% Many times it won't matter.
\else
% The expandable \pdfescapestring primitive escapes parentheses,
% backslashes, and other special chars.
\xdef#1{\pdfescapestring{#1}}%
\fi
}

\newhelp\nopdfimagehelp{Texinfo supports .png, .jpg, .jpeg, and .pdf images
with PDF output, and none of those formats could be found. (.eps cannot
be supported due to the design of the PDF format; use regular TeX (DVI
output) for that.)}

\ifpdf
%
% Color manipulation macros based on pdfcmyk.tex,
% except using rgb instead of cmyk; the latter is said to render as a
\def\pdfimageheight{#3}\setbox2 = \hbox{\ignorespaces #3} \\
% \% pdftex (and the PDF format) support .pdf, .png, .jpg (among \% others). Let's try in that order, PDF first since if \% someone has a scalable image, presumably better to use that than a \% bitmap.
\let\pdfimgext=\empty
\begingroup
\openin 1 #1.pdf \ifeof 1
\openin 1 #1.PDF \ifeof 1
\openin 1 #1.png \ifeof 1
\openin 1 #1.jpg \ifeof 1
\openin 1 #1.jpeg \ifeof 1
\openin 1 #1.JPG \ifeof 1
\errhelp = \nopdfimagehelp
\errmessage{Could not find image file #1 for pdf} \\
\else \edef\pdfimgext{JPG} \\
\fi
\else \edef\pdfimgext{jpeg} \\
\fi
\else \edef\pdfimgext{jpg} \\
\fi
\else \edef\pdfimgext{png} \\
\fi
\else \edef\pdfimgext{PDF} \\
\fi
\else \edef\pdfimgext{pdf} \\
\fi
\closein 1
\endgroup
\ifnum\pdftexversion < 14
\immediate\pdfimage
\else
\immediate\pdfximage
\fi
\ifdim \wd0 >0pt width \pdfimagewidth \fi
\ifdim \wd2 >0pt height \pdfimageheight \fi
\ifnum\pdftexversion<13
#1.\pdfimgext
\else
[#1.\pdfimgext] \\
\fi
\ifnum\pdftexversion < 14 \else
\pdfreffimage \pdflastximage
\fi}
\def\numchapentry##1##2##3##4{\ dopdfoutline{##1}{count-expnumber{chap##2}}{##3}{##4}}\%
\def\numsecentry##1##2##3##4{\ dopdfoutline{##1}{count-expnumber{sec##2}}{##3}{##4}}\%
\def\numsubsecentry##1##2##3##4{\ dopdfoutline{##1}{count-expnumber{subsec##2}}{##3}{##4}}\%
\def\numsubsubsecentry##1##2##3##4{\ dopdfoutline{##1}{count-expnumber{subsubsec##2}}{##3}{##4}}\% count is always zero
\dopdfoutline{[]}{}{[]}{}\%
%
% PDF outlines are displayed using system fonts, instead of % document fonts. Therefore we cannot use special characters, % since the encoding is unknown. For example, the eogonek from % Latin 2 (0xea) gets translated to a | character. Info from % Staszek Wawrykiewicz, 19 Jan 2004 04:09:24 +0100.
%
% TODO: We have to translate 8-bit characters to % their "best" equivalent, based on the @documentencoding. Too % much work for too little return. Just use the ASCII equivalents % we use for the index sort strings.
%
\indexnofonts
\setupdatafile
% We can have normal brace characters in the PDF outlines, unlike % Texinfo index files. So set that up.
\def\{\lbracecharliteral\%
\def\}\rbracecharliteral\%
\catcode`\=\active \otherbackslash
\input \tocreadfilename
\endgroup
%
{%catcode`[=1 \catcode`]=2
\catcode`\=\other \catcode`\}=\other
\edef\ bracecharliteral{}[]%
\edef\ bracecharliteral{}[]%
}\}%
\skipspaces#1\def\PP{#1}\def\D{|}%
\ifx\PP\D\let\nextsp\relax
\else\let\nextsp\skipspaces
\addtokens{\filename}{\PP}\%
\advance\filenamelength by 1
\fi
\nextsp
\def\getfilename#1{\%
\filenamelength=0
% If we don't expand the argument now, \skipspaces will get % snagged on things like "@value{foo}".
\edef\temp{#1}\%
\def\pdflink#1{\%  
  \startlink attr{/Border [0 0 0]} goto name{pdfmkpgn{#1}}  
  \setcolor{\linkcolor}{#1}\endlink  
}\def\done{\edef\st{\global\noexpand\toksA={\the\toksB}}\st}  
\else  
% non-pdf mode  
\def\pdfmkdest = \gobble  
\def\pdfurl = \gobble  
\def\endlink = \relax  
\def\setcolor = \gobble  
\def\pdfsetcolor = \gobble  
\def\pdfmakeoutlines = \relax  
\fi  
% \ifx\pdfoutput  
\message{fonts,}  
% Change the current font style to #1, remembering it in \curfontstyle.  
% For now, we do not accumulate font styles: @b{@i{foo}} prints foo in  
% italics, not bold italics.  
% \def\setfontstyle#1{\%  
% \def\curfontstyle{#1}% not as a control sequence, because we are \edef\d.  
% \csname ten#1\endcsname % change the current font  
}  
% Select #1 fonts with the current style.  
% \def\selectfonts#1{\csname #1fonts\endcsname \csname\curfontstyle\endcsname}  
\def\rm{\fam=0 \setfontstyle{rm}}  
\def\it{\fam=\itfam \setfontstyle{it}}  
\def\sl{\fam=\slfam \setfontstyle{sl}}  
\def\bf{\fam=\bffam \setfontstyle{bf}}\def\bfstylename{bf}  
\def\tt{\fam=\ttfam \setfontstyle{tt}}  
% Unfortunately, we have to override this for titles and the like, since  
% in those cases "rm" is bold. Sigh.  
\def\rmisbold{\rm \def\curfontstyle{bf}}  
% Texinfo sort of supports the sans serif font style, which plain TeX does not.  
% So we set up a \sf.  
\newfam\sffam  
\def\sfr{\fam=\sffam \setfontstyle{sf}}  
\def\dfi = \sf \% Sometimes we call it \d, not \sf.  
\def\ttsf{\setfontstyle{ttsf}}  
% We don’t need math for this font style.

\% Set the baselineskip to #1, and the lineskip and strut size
\% correspondingly. There is no deep meaning behind these magic numbers
\% used as factors; they just match (closely enough) what Knuth defined.
\%
\def\lineskipfactor{.08333}
\def\strutheightpercent{.70833}
\def\strutdepthpercent {.29167}
\%
\% can get a sort of poor man's double spacing by redefining this.
\def\baselinefactor{1}
\%
\newdimen\textleading
\def\setleading#1{\% 
\dimen0 = #1\relax
\normalbaselineskip = \baselinefactor\dimen0
\normallineskip = \lineskipfactor\normalbaselineskip
\normalbaselines
\setbox\strutbox =\hbox{\% 
\vrule width0pt height\strutheightpercent\baselineskip
\hspace{\strutdepthpercent\baselineskip}
\}}
\%
\%
\%
\%
\%
\%
\%

\%
PDF CMaps. See also LaTeX's t1.cmap.
\%
\% do nothing with this by default.
\expandafter\let\csname cmapOT1\endcsname\gobble
\expandafter\let\csname cmapOT1IT\endcsname\gobble
\expandafter\let\csname cmapOT1TT\endcsname\gobble
\ifpdf
\if\pdffontattr\thisisundefined\else
\begingroup
\catcode`^^M=\active \def^^M{\^^J}% Output line endings as the ^^^J char.
\catcode`%=12 \immediate\pdfobj stream {!PS-Adobe-3.0 Resource-CMap
%DocumentNeededResources: ProcSet (CIDInit)
%IncludeResource: ProcSet (CIDInit)
%BeginResource: CMap (TeX-OT1-0)
%Title: (TeX-OT1-0 TeX OT1 0)
%Version: 1.000
%EndComments
/CIDInit /ProcSet findresource begin
12 dict begin
beginmap
<02> <0398>
<03> <039B>
<04> <039E>
<05> <03A0>
<06> <03A3>
<07> <03D2>
<08> <03A6>
<0B> <2191>
<0C> <2193>
<0D> <0027>
<0E> <00A1>
<0F> <00BF>
<10> <0131>
<11> <0237>
<12> <0060>
<13> <00B4>
<14> <02C7>
<15> <02D8>
<16> <00AF>
<17> <02DA>
<18> <00B8>
<19> <00DF>
<1A> <00E6>
<1B> <0153>
<1C> <00F8>
<1D> <00C6>
<1E> <0152>
<1F> <00D8>
<20> <2423>
<27> <2019>
<60> <2018>
<7F> <00A8>
endbfchar
endcmap
CMapName currentdict /CMap defineresource pop
end
end
%%EndResource
%%EOF
@endgroup
\expandafter\edef\csname cmapOT1TT\endcsname#1{%
  \pdffontattr#1{/ToUnicode \the\pdflastobj\space 0 R}%
}%
\fi

% Set the font macro #1 to the font named \fontprefix#2.
% #3 is the font’s design size, #4 is a scale factor, #5 is the CMap
% encoding (only OT1, OT1IT and OT1TT are allowed, or empty to omit).
% Example:
% #1 = \textrm
% #2 = \rmshape
% #3 = 10
% #4 = \mainmagstep
% #5 = OT1
%
\def\setfont#1#2#3#4#5{%
\font#1=\fontprefix#2#3 scaled #4
\csname cmap#5\endcsname#1%
}
% This is what gets called when #5 of \setfont is empty.
\def\cmap\gobble
%
% (end of cmaps)
%
% Use cm as the default font prefix.
% To specify the font prefix, you must define \fontprefix
% before you read in texinfo.tex.
\ifx\fontprefix\thisisundefined
\def\fontprefix{cm}
\fi
%
% Support font families that don’t use the same naming scheme as CM.
\def\rmshape{r}
\def\rmbshape{bx} % where the normal face is bold
\def\bfshape{b}
\def\bxshape{bx}
\def\ttshape{tt}
\def\ttbshape{tt}
\def\ttslshape{sltt}
\def\itshape{ti}
\def\itbshape{bxti}
\def\slshape{sl}
\def\slbshape{bxsl}
\def\sfshape{ss}
\def\sfbshape{ss}
\def\scshape{csc}
\def\scbshape{csc}
%
% Definitions for a main text size of 11pt. (The default in Texinfo.)
%
\def\definetextfontsizexi{%
% Text fonts (11.2pt, magstep1).
\def\textnominalsize{11pt}
\edef\mainmagstep{\magstephalf}
\setfont\textrm\rmshape{10}{\mainmagstep}{OT1}
\setfont\texttt\ttshape{10}{\mainmagstep}{OT1TT}
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We provide the user-level command
@fonttextsize 10
(or 11) to redefine the text font size. pt is assumed.

\def\xword{10}
\def\xiword{11}
\def\xwordpt{10pt}

\parseargdef\fonttextsize{%
  \def\textsizearg{#1}%
  \wlog{doing \fonttextsize \textsizearg}%
  \% Set \globaldefs so that documents can use this inside \tex, since
  \% makeinfo 4.8 does not support it, but we need it nonetheless.
  \%
  \begingroup \globaldefs=1
  \ifx\textsizearg\xword \definetextfontsizex
  \else \ifx\textsizearg\xiword \definetextfontsizexi
  \else
    \errhelp=\EMsimple
    \errmessage{\fonttextsize only supports \textsizearg{10} or \textsizearg{11}, not \textsizearg}{10pt}
  \fi\fi
  \endgroup
}

\begingroup \globaldefs=1
  \textfont0=\tenrm \textfont1=\teni \textfont2=\tensy
  \textfont\itfam=\tenit \textfont\slfam=\tensl \textfont\bffam=\tenbf
  \textfont\ttfam=\tentt \textfont\sffam=\tensf
\endgroup
The font-changing commands redefine the meanings of \textSTYLE, instead of just \STYLE. We do this because \STYLE needs to also set the current \fam for math mode. Our \STYLE (e.g., \rm) commands hardwire \tenSTYLE to set the current font.

Each font-changing command also sets the names \lsize (one size lower) and \lllsize (three sizes lower). These relative commands are used in the LaTeX logo and acronyms.

This all needs generalizing, badly.

\def\textfonts{% 
\let\tenrm=\textrm \let\tenit=\textit \let\tensl=\textsl 
\let\tenbf=\textbf \let\tentt=\texttt \let\smallcaps=\textsc 
\let\tensf=\textsf \let\tenti=\texti \let\tensy=\textsy 
\let\tenentsl=\textttsl 
\def\curfontsize{text}\% 
\def\lsize{reduced}\def\lllsize{smaller}\% 
\resetmathfonts \setleading{\textleading} }
\def\titlefonts{% 
\let\tenrm=\titlerm \let\tenit=\titleit \let\tensl=\titlesl 
\let\tenbf=\titlebf \let\tentt=\titlett \let\smallcaps=\titlesc 
\let\tensf=\titlesf \let\tenti=\titlei \let\tensy=\titlesy 
\let\tenentsl=\titlettsl 
\def\curfontsize{title}\% 
\def\lsize{chap}\def\lllsize{subsec}\% 
\resetmathfonts \setleading{27pt} }
\def\chapfonts{% 
\let\tenrm=\chaprm \let\tenit=\chapit \let\tensl=\chapsl 
\let\tenbf=\chapbf \let\tentt=\chaptt \let\smallcaps=\chapsc 
\let\tensf=\chapsf \let\tenti=\chapi \let\tensy=\chapsy 
\let\tenentsl=\chapttsl 
\def\curfontsize{chap}\% 
\def\lsize{sec}\def\lllsize{text}\% 
\resetmathfonts \setleading{19pt} }
\def\secfonts{% 
\let\tenrm=\secrm \let\tenit=\secit \let\tensl=\secsl 
\let\tenbf=\secbf \let\tentt=\sectt \let\smallcaps=\secsc 
\let\tensf=\secsf \let\tenti=\seci \let\tensy=\secsy 
\let\tenentsl=\secttsl 
\def\curfontsize{sec}\% 
\def\lsize{subsec}\def\lllsize{reduced}\% 
\resetmathfonts \setleading{16pt} }
\def\subsecfonts{% 
\let\tenrm=\ssecrm \let\tenit=\ssecit \let\tensl=\ssecsl
% If we use `\scriptfonts` (8pt), then we can fit this many characters:
%  8.5x11=90+ smallbook=80  a4=90+ a5=77
% For me, subjectively, the few extra characters that fit aren't worth
% the additional smallness of 8pt. So I'm making the default 9pt.
%
% By the way, for comparison, here's what fits with `@example` (10pt):
%  8.5x11=71 smallbook=60  a4=75  a5=58
% --karl, 24jan03.
%
% Set up the default fonts, so we can use them for creating boxes.
%
definetextfontsizexi

\message{markup,}

% Check if we are currently using a typewriter font. Since all the
% Computer Modern typewriter fonts have zero interword stretch (and
% shrink), and it is reasonable to expect all typewriter fonts to have
% this property, we can check that font parameter.
%
def\ifmonospace{\ifdim\fontdimen3\font=0pt }

% Markup style infrastructure. `\defmarkupstylesetup\INITMACRO` will
% define and register \INITMACRO to be called on markup style changes.
% \INITMACRO can check \currentmarkupstyle for the innermost
% style and the set of \ifmarkupSTYLE switches for all styles
% currently in effect.
\newif\ifmarkupvar
\newif\ifmarkupsamp
\newif\ifmarkupkey
%\newif\ifmarkupfile % @file == @samp.
%\newif\ifmarkupoption % @option == @samp.
\newif\ifmarkupcode
\newif\ifmarkupkbd
%\newif\ifmarkupenv % @env == @code.
%\newif\ifmarkupcommand % @command == @code.
\newif\ifmarkuptex % @tex (and part of @math, for now).
\newif\ifmarkupexample
\newif\ifmarkupverb
\newif\ifmarkupverbatim

\let\currentmarkupstyle\empty

\def\setupmarkupstyle#1{%
  \csname markup#1true\endcsname
  \def\currentmarkupstyle{#1}%
%  \markupstylesetup
}
% Allow an option to not use regular directed right quote/apostrophe
% (char 0x27), but instead the undirected quote from cmtt (char 0x0d).
% The undirected quote is ugly, so don't make it the default, but it
% works for pasting with more pdf viewers (at least evince), the
% lilypond developers report.  xpdf does work with the regular 0x27.
%
\def\codequoteright{%
\expandafter\ifx\csname SETtxicodequoteundirected\endcsname\relax
\expandafter\ifx\csname SETcodequoteundirected\endcsname\relax
  '
\else \char'15 \fi
\else \char'15 \fi
}
%
% and a similar option for the left quote char vs. a grave accent.
% Modern fonts display ASCII 0x60 as a grave accent, so some people like
% the code environments to do likewise.
%
\def\codequoteleft{%
\expandafter\ifx\csname SETtxicodequotebacktick\endcsname\relax
\expandafter\ifx\csname SETcodequotebacktick\endcsname\relax
  \[Knuth\] pp. 380,381,391
  \relax`%
\else \char'22 \fi
\else \char'22 \fi
}
%
% Commands to set the quote options.
%
\parseargdef\codequoteundirected{%
\def\temp{#1}%
\ifx\temp\onword
\expandafter\let\csname SETtxicodequoteundirected\endcsname = t%
\else\ifx\temp\offword
\expandafter\let\csname SETtxicodequoteundirected\endcsname = \relax
\else\errhelp = \EMsimple
\errmessage{Unknown @codequoteundirected value `\temp', must be on|off}%
\fi\fi
}
%

\parsearg\def[codequotebacktick]{% 
\def[temp\#1]{% 
\if\x[temp\onword 
\expandafter\let\csname SETtxicodequotebacktick\endcsname 
= \t% 
\else\if\x[temp\offword 
\expandafter\let\csname SETtxicodequotebacktick\endcsname 
= \relax 
\else 
\errhelp = \EMsimple 
\errmessage{Unknown @codequotebacktick value \temp, must be on|off}\
\fi\fi

% [Knuth] pp. 380,381,391, disable Spanish ligatures ?` and !` of \tt font. 
\def[noligaturesquoteleft]{\relax\lq}

% Count depth in font-changes, for error checks 
\newcount[fontdepth] \fontdepth=0

% Font commands.

% #1 is the font command (\sl or \it), #2 is the text to slant. 
% If we are in a monospaced environment, however, 1) always use \ttsl, 
% and 2) do not add an italic correction. 
\def[dosmartslant\#1\#2]{% 
\ifusingtt 
  {% \ttsl \#2} \let\next=\relax\}% 
  {\def\next{\{\#1\#2}\futurelet\next\smartitaliccorrection}}\}% 
\next

} 
\def[smartslanted]{\dosmartslant\sl}
\def[smartitalic]{\dosmartslant\it}

% Output an italic correction unless \next (presumed to be the following 
% character) is such as not to need one. 
\def[smartitaliccorrection]{% 
\if\x\next,\% 
\else\if\x\next-% 
\else\if\x\next.% 
\else\ptexslash 
\fi\fi 
\aftersmartic 
}

% Unconditional use \ttsl, and no ic. \textvar is set to this for defuns. 
\def[ttslanted\#1]{\{\ttsl \#1\}}
% @cite is like \smartslanted except unconditionally use \sl. We never want
% tsl for book titles, do we?
\def\cite#1{{\sl #1}\futurelet\next\smartitaliccorrection}

\def\aftersmartic{}
\def\var#1{\let\saveaftersmartic = \aftersmartic
\def\aftersmartic{\null\let\aftersmartic=\saveaftersmartic} %
\smartslanted{#1}}
\let\i=\smartitalic
\let\slanted=\smartslanted
\let\dfn=\smartslanted
\let\emph=\smartslanted

% Explicit font changes: @r, @sc, undocumented @ii.
\def\r#1{{\rm #1}}              % roman font
\def\sc#1{{\smallcaps#1}}       % smallcaps font
\def\ii#1{{\it #1}}             % italic font

% @b, explicit bold. Also @strong.
\def\b#1{{\bf #1}}
\let\strong=\b

% @sansserif, explicit sans.
\def\sansserif#1{{\sf #1}}

% We can't just use \exhyphenpenalty, because that only has effect at
% the end of a paragraph. Restore normal hyphenation at the end of the
% group within which \nohyphenation is presumably called.
\def\nohyphenation{\hyphenchar\font = -1 \aftergroup\restorehyphenation}
\def\restorehyphenation{\hyphenchar\font = `- `}

% Set sfcode to normal for the chars that usually have another value.
% Can't use plain's \frenchspacing because it uses the `\x notation, and
% sometimes \x has an active definition that messes things up.
% \catcode`@=11
\def\plainfrenchspacing{%
\sfcode\dotChar  =@m \sfcode\questChar =@m \sfcode\exclamChar =@m
\sfcode\colonChar =@m \sfcode\semiChar  =1500 \sfcode\commaChar =@m \sfcode\endofsentencespacefactor =1000} % for @. and friends
\def\plainnonfrenchspacing{%
\sfcode`\3000\sfcode`\3000\sfcode`\13000
\sfcode`\2000\sfcode`\1500\sfcode`\1250

\def\endofsentencespacefactor{3000}% for @. and friends
\catcode`@=other
\def\endofsentencespacefactor{3000}% default

% @t, explicit typewriter.
\def\t#1{\{\tt \rawbackslash \plainfrenchspacing #1\}null}
%
% @samp.
\def\samp#1{\{\setupmarkupstyle{samp}\lq\tclose{#1}\rq\null}}
%
% @indicateurl is \samp, that is, with quotes.
\let\indicateurl=\samp
%
% @code (and similar) prints in typewriter, but with spaces the same
% size as normal in the surrounding text, without hyphenation, etc.
% This is a subroutine for that.
\def\tclose#1{\%
  % Change normal interword space to be same as for the current font.
  \spaceskip = \fontdimen2\font
  %
  % Switch to typewriter.
  \tt
  %
  % But \ ' produces the large typewriter interword space.
  \def\ {\spaceskip = 0pt{} }
  %
  % Turn off hyphenation.
  \nohyphenation
  %
  \rawbackslash
  \plainfrenchspacing
  #1%
  \}
\null % reset spacefactor to 1000
%
% We *must* turn on hyphenation at `-' and `_' in @code.
% Otherwise, it is too hard to avoid overfull hboxes
% in the Emacs manual, the Library manual, etc.
%
% Unfortunately, TeX uses one parameter \hyphenchar to control
% both hyphenation at - and hyphenation within words.
% We must therefore turn them both off (\tclose does that)
% and arrange explicitly to hyphenate at a dash.
% -- rms.
{
\catcode`\-=\active \catcode`\_\=\active
\catcode`\-=\active \catcode`\_\-=\active
\global\let\rq\rqsq \global\let\lq\lsqsq % default definitions
%
\global\def\code{\begingroup
  \setupmarkupstyle{code}%
  % The following should really be moved into \setupmarkupstyle handlers.
  \catcode\dashChar\=\active \catcode\underChar\=\active
  \ifallowcodebreaks
    \let\codedash
    \let\codeunder
  \else
    \let\normaldash
    \let\realunder
  \fi
  \codex
}\endgroup}

\def\codex #1{\tclose{#1}\endgroup}
\def\normaldash{-}
\def\codedash{-\discretionary{}{}{}}
\def\codeunder{%
% this is all so @math{@code{var_name}+1} can work. In math mode, _
% is "active" (mathcode"8000) and \normalunderscore (or \char95, etc.)
% will therefore expand the active definition of _, which is us
% (inside @code that is), therefore an endless loop.
  \ifusingtt{\ifmmode
    \mathchar"075F % class 0=ordinary, family 7=ttfam, pos 0x5F=_.
  \else\normalunderscore \fi
  \discretionary{}{}{}}%
  {_}
}%

% An additional complication: the above will allow breaks after, e.g.,
% each of the four underscores in __typeof__. This is bad.
% @allowcodebreaks provides a document-level way to turn breaking at -
% and _ on and off.
%\newif\ifallowcodebreaks \allowcodebreakstrue

\def\keywordtrue{true}
\def\keywordfalse{false}
\parseargdef{allowcodebreaks}{% 
def\txiarg[#1]{% 
  \ifx\txiarg\keywordtrue \allowcodebreakstrue \else \allowcodebreaksfalse \fi 
  \errhelp = \EMsimple \errmessage{Unknown @allowcodebreaks option \`\txiarg', must be true|false}% 
}\fi 
}\allowcodebreakstrue 
\allowcodebreaksfalse 
%
% For @command, @env, @file, @option quotes seem unnecessary, 
% so use \code rather than \samp. 
\let\command=\code 
\let\env=\code 
\let\file=\code 
\let\option=\code 
%
%@uref (abbreviation for `urlref') takes an optional (comma-separated) 
% second argument specifying the text to display and an optional third 
% arg as text to display instead of (rather than in addition to) the url 
% itself. First (mandatory) arg is the url. 
% (This \urefnobreak definition isn't used now, leaving it for a while 
% for comparison.) 
\def\urefnobreak#1[\dourefnobreak #1,,,,\finish] 
\def\dourefnobreak#1,#2,#3,#4\finish{\begingroup 
\unsepspaces 
\pdfurl{#1} \setbox0 = \hbox{\ignorespaces #3} \ifdim\wd0 > 0pt \unhbox0 % third arg given, show only that \else \setbox0 = \hbox{\ignorespaces #2} \ifdim\wd0 > 0pt \ifpdf \unhbox0 % PDF: 2nd arg given, show only it \else \unhbox0\ (\code{#1})% DVI: 2nd arg given, show both it and url \fi \else \code{#1}% only url given, so show it \fi \fi 
\endlink 
\endgroup} 
%
% This \urefbreak definition is the active one.
\global\def\normalquest{\normalquest}
\global\def\normalslash{\normalslash}

\% we put a little stretch before and after the breakable chars, to help
\% line breaking of long url's. The unequal skips make look better in
\% cmtt at least, especially for dots.
\def\urefprestretch{\urefprebreak \hskip0pt plus.13em }
\def\urefpoststretch{\urefpostbreak \hskip0pt plus.1em }

\% \def\urefcodeamp{\urefprestretch \&\urefpoststretch}
\def\urefcodedot{\urefprestretch .\urefpoststretch}
\def\urefcodehash{\urefprestretch \#\urefpoststretch}
\def\urefcodequest{\urefprestretch ?\urefpoststretch}
\def\urefcodeslash{\futurelet\next\urefcodeslashfinish}
{
\catcode`/=\active
\global\def\urefcodefinal{{\urefpoststretch \slashChar}
% Allow line break only after the final / in a sequence of
% slashes, to avoid line break between the slashes in http://.
\ifx\next/\else \urefpoststretch \fi
}
}

\% One more complication: by default we'll break after the special
\% characters, but some people like to break before the special chars, so
\% allow that. Also allow no breaking at all, for manual control.
\%
\parseargdef\urefbreakstyle{\%
\def\txiarg{#1}\
\ifx\txiarg\wordnone
\def\urefprebreak{\nobreak}\def\urefpostbreak{\nobreak}
\else\ifx\txiarg\wordbefore
\def\urefprebreak{\allowbreak}\def\urefpostbreak{\nobreak}
\else\ifx\txiarg\wordafter
\def\urefprebreak{\nobreak}\def\urefpostbreak{\allowbreak}
\else
\errhelp = \EMsimple
\errmessage{Unknown @urefbreakstyle setting `\txiarg'}\%
\fi\fi\fi
}
\def\wordafter{after}
\def\wordbefore{before}
\def\wordnone{none}
\urefbreakstyle after
% @url synonym for @uref, since that's how everyone uses it.
%
\def\url=\uref
%
% rms does not like angle brackets --karl, 17may97.
% So now @email is just like @uref, unless we are pdf.
%
%\def\email#1\langleleft{\tt #1}\angleright
\ifpdf
\def\email#1\langleleft{\doemail#1,\finish
\def\doemail#1,#2,#3\finish\begingroup
\unsepspaces
\pdffurl{mailto:#1}%
\setbox0 = \hbox{\ignorespaces #2}%
\ifdim\wd0>0pt\unhbox0\else\code{#1}\fi
\endlink
\endgroup}
\else
\let\email=\uref
\fi
%
% @kbdinputstyle -- arg is `distinct' (@kbd uses slanted tty font always),
% `example' (@kbd uses ttsl only inside of @example and friends),
% or `code' (@kbd uses normal tty font always).
%\parseargdef\kbdinputstyle{%
%\def\txiarg{#1}%
%\ifx\txiarg\worddistinct
%\gdef\kbdexamplefont{\ttsl}\gdef\kbdfont{\ttsl}%
%\else\ifx\txiarg\wordexample
%\gdef\kbdexamplefont{\ttsl}\gdef\kbdfont{\tt}%
%\else\ifx\txiarg\wordcode
%\gdef\kbdexamplefont{\tt}\gdef\kbdfont{\tt}%
%\else
%\errhelp = \EMsimple
%\errmessage{Unknown @kbdinputstyle setting `\txiarg'}%
%\fi%\fi%\fi
%}
%\def\worddistinct{distinct}
%\def\wordexample{example}
%\def\wordcode{code}
%
% Default is `distinct'.
%\kbdinputstyle distinct
%
% @kbd is like @code, except that if the argument is just one @key command,
% then @kbd has no effect.
%\def\kbd#1{\{\def\look{#1}\expandafter\kbdsublook??\par}
\text
\mathunderscore
\let\"=\ddot
\let\'=\acute
\let\^=\hat
\let\`=\grave
\let\~=\tilde
\let\dotaccent=\dot
\finishmath

% Some active characters (such as <) are spaced differently in math.
% We have to reset their definitions in case the @math was an argument
% to a command which sets the catcodes (such as @item or @section).
%
\catcode`^ = \active
\catcode`< = \active
\catcode`> = \active
\catcode`+ = \active
\catcode`' = \active
\gdef\mathactive{%
\let^ = \ptexhat
\let< = \ptexless
\let> = \ptexgtr
\let+ = \ptexplus
\let' = \ptexquoteright
}
%
% ctrl is no longer a Texinfo command, but leave this definition for fun.
\def\\#1\#1\{\{\text\rawbackslash\\hat\#1\}\}
%
% @inlinefmt{FMTNAME,PROCESSED-TEXT} and @inlineraw{FMTNAME,RAW-TEXT}.
% Ignore unless FMTNAME == \tex; then it is like @iftex and @tex,
% except specified as a normal braced arg, so no newlines to worry about.
%
\def\outfmtnametex{\text}
%
% Accents: @, @dotaccent @ringaccent @ubaraccent @udotaccent
% Others are defined by plain TeX: @’ @’’ @’’’ @’’’’ @’’’’’ @’’’’’’ 
\let\, = \ptexc
\let dotaccent = \ptexdot
\def\ringaccent#1{\accent23 #1}
\let\tieaccent = \ptext
\let\ubaraccent = \ptexb
\let\udotaccent = \d

% Other special characters: @questiondown @exclamdown @ordf @ordm
% Plain TeX defines: @AA @AE @O @OE @L (plus lowercase versions) @ss.
\def questiondown{?}
\def exclamdown{!}
\def ordf{\leavevmode\raise1ex\hbox{\selectfonts\llsize \underbar{a}}}
\def ordm{\leavevmode\raise1ex\hbox{\selectfonts\llsize \underbar{o}}}
% Dotless i and dotless j, used for accents.
\def \imacro {i}
\def \jmacro {j}
\def dotless#1{%
  \def \temp {#1}%
  \ifx \temp \imacro \ifmmode \imath \else \ptexi \fi
  \else \ifx \temp \jmacro \ifmmode \jmath \else \j \fi
  \else \errmessage {@dotless can be used only with i or j} \fi
  \fi
}
% The \TeX{} logo, as in plain, but resetting the spacing so that a
% period following counts as ending a sentence.  (Idea found in latex.)%
\edef \TeX{\TeX \spacefactor=1000}

% @LaTeX{} logo.  Not quite the same results as the definition in
% latex.ltx, since we use a different font for the raised A; it's most
% convenient for us to use an explicitly smaller font, rather than using
% the \scriptstyle font (since we don't reset \scriptstyle and
% \scriptscriptstyle).
%
\def \LaTeX{L\kern-.36em
\setbox0=\hbox{T}
\vbox to \ht0{\hbox{\ifx\textnominalsize \xwordpt
% for 10pt running text, \llsize (8pt) is too small for the A in La\TeX.
% Revert to plain's \scriptsize, which is 7pt.
\count255=\the \fam \$\fam \count255 \scriptstyle AS%
\else
\fi}
% For 11pt, we can use our lllsize.
\selectfonts\lllsize A%
\fi
}%
\vss
}}%
\hss
\TeX
}%

% Some math mode symbols.
\def\bullet{$\ptexbullet$}
\def\geq{\ifmmode \ge\else $\ge$\fi}
\def\leq{\ifmmode \le\else $\le$\fi}
\def\minus{\ifmmode -\else $-$\fi}

% @dots{} outputs an ellipsis using the current font.
% We do .5em per period so that it has the same spacing in the cm
% typewriter fonts as three actual period characters; on the other hand,
% in other typewriter fonts three periods are wider than 1.5em. So do
% whichever is larger.
%
\def\dots{\leavevmode
\setbox0=\hbox{...}% get width of three periods
\ifdim\wd0 > 1.5em
\dimen0 = \wd0
\else
\dimen0 = 1.5em
\fi
\hbox to \dimen0{\hskip 0pt plus.25fil
.\hskip 0pt plus1fil
.\hskip 0pt plus1fil
.\hskip 0pt plus.5fil
}%
}
%
% @enddots{} is an end-of-sentence ellipsis.
%
\def\enddots{\dots
\spacefactor=\endofsentencespacefactor
}
%
% Since these characters are used in examples, they should be an even number of
% \tt character is 1em, so two makes it 1em.
%
\def\point{$\star$}
\def\arrow{$\rightarrow$}
\def\result{$\Rightarrow$}
\def\expansion{$\mapsto$}
\def\print{$\dashv$}
\def\equiv{$\equiv$}
%
% The @error{} command.
% Adapted from the TeXbook's \boxit.
%
\newbox\errorbox
%
% \tentt \global\dimen0 = 3em \% Width of the box.
\dimen2 = .55pt \% Thickness of rules
% The text. (`r' is open on the right, `e' somewhat less so on the left.)
\setbox0 = \hbox{\kern-.75pt \reducedsf \putworderror\kern-1.5pt}
%
\setbox\errorbox=\hbox to \dimen0{\hfil}
\hsize = \dimen0 \advance\hsize by -5.8pt \% Space to left+right.
\advance\hsize by -2\dimen2 \% Rules.
\vbox{\hrule height\dimen2
\hbox{\vrule width\dimen2 \kern3pt \% Space to left of text.
\vtop{\kern2.4pt \box0 \kern2.4pt}\% Space above/below.
\kern3pt\hrule width\dimen2 \% Space to right.
\hrule height\dimen2}}
\hfil}
%
\def\error{\leavevmode\lower.7ex\copy\errorbox}
%
% @pounds{} is a sterling sign, which Knuth put in the CM italic font.
%
\def\pounds{{\it\$}}
%
% @euro{} comes from a separate font, depending on the current style.
% We use the free feym* fonts from the eurosym package by Henrik
% Theiling, which support regular, slanted, bold and bold slanted (and
% "outlined" (blackboard board, sort of) versions, which we don't need).
% It is available from http://www.ctan.org/tex-archive/fonts/eurosym.
%
% Although only regular is the truly official Euro symbol, we ignore
% that. The Euro is designed to be slightly taller than the regular
% font height.
%
% feymr - regular
% feymo - slanted
% There is no good (free) typewriter version, to my knowledge.
% A feymr10 euro is ~7.3pt wide, while a normal cmtt10 char is ~5.25pt wide.
% Hmm.
% Also doesn't work in math. Do we need to do math with euro symbols?
% Hope not.
%
\def\euro{{\eurofont e}}
\def\eurofont{{%  
% We set the font at each command, rather than predefining it in
% \textfonts and the other font-switching commands, so that
% installations which never need the symbol don't have to have the
% font installed.
%
% There is only one designed size (nominal 10pt), so we always scale
% that to the current nominal size.
%
% By the way, simply using "at 1em" works for cmr10 and the like, but
% does not work for cmbx10 and other extended/shrunken fonts.
%
\def\eurosize{\csname\curfontsize\nominalsize\endcsname}%
%
\iffont\curfontstyle\bfstylename
  % bold:
  \font\thiseurofont = \fusingit{feybo10}{feybr10} at \eurosize
\else
  % regular:
  \font\thiseurofont = \fusingit{feymo10}{feymr10} at \eurosize
\fi
\thiseurofont
%
% Glyphs from the EC fonts. We don't use \let for the aliases, because
% sometimes we redefine the original macro, and the alias should reflect
% the redefinition.
%
% Use LaTeX names for the Icelandic letters.
\def\DH{{\ecfont \char"D0}} % Eth
\def\dh{{\ecfont \char"F0}} % eth
\def\TH{{\ecfont \char"DE}} % Thorn
\def\th{{\ecfont \char"FE}} % thorn
%
\def\guillemetleft{{\ecfont \char"13}}
\def\guillemotleft{\guillemetleft}  

% @registeredsymbol - R in a circle. The font for the R should really
% be smaller yet, but llsize is the best we can do for now.
% Adapted from the plain.tex definition of \copyright.
%
\def\registeredsymbol{%
\textcircled{\textsuperscript{R}}
}%

% @textdegree - the normal degrees sign.
%
\def\textdegree{$^\circ$}

% Laurent Siebenmann reports \Orb undefined with:
% Textures 1.7.7 (preloaded format=plain 93.10.14) (68K) 16 APR 2004 02:38
% so we'll define it if necessary.
%
\ifx\Orb\thisisundefined
\def\Orb{\mathhexbox20D}
\fi

% Quotes.
\chardef\quotedblleft="5C
\chardef\quotedblright=`\"$
\chardef\quoteleft=`\`
\chardef\quoteright=`\' 

\message{page headings,}

\newskip\titlepagetopglue \titlepagetopglue = 1.5in
\newskip\titlepagebottomglue \titlepagebottomglue = 2pc

% First the title page. Must do @settitle before @titlepage.
\iftrue\ifseenauthor
\newif\iffinishedtitlepage
\fi 

% Do an implicit @contents or @shortcontents after @end titlepage if the
\newif\ifsetcontentsaftertitlepage
\let\setcontentsaftertitlepage = \setcontentsaftertitlepagetrue
\newif\ifsetshortcontentsaftertitlepage
\let\setshortcontentsaftertitlepage = \setshortcontentsaftertitlepagetrue

\parseargdef\shorttitlepage{\
\begingroup \hbox{}\vskip 1.5in \chaprm \centerline{#1}\
\endgroup\page\hbox{}\page}

\envdef\titlepage{\
% Open one extra group, as we want to close it in the middle of \Etitlepage.
\begingroup
\parindent=0pt \textfonts
% Leave some space at the very top of the page.
\glue\titlepagetopglue
% No rule at page bottom unless we print one at the top with @title.
\finishedtitlepagetrue
%
% Most title ``pages'' are actually two pages long, with space
% at the top of the second. We don't want the ragged left on the second.
\let\oldpage = \page
\def\page{%
\iffinishedtitlepage\else
\finishtitlepage\fi
\let\page = \oldpage
\page
\null
}%
}

\def\Etitlepage{\
\iffinishedtitlepage\else
\finishtitlepage\fi
% It is important to do the page break before ending the group,
% because the headline and footline are only empty inside the group.
% If we use the new definition of \page, we always get a blank page
% after the title page, which we certainly don't want.
\oldpage
\endgroup
%
% Need this before the \...aftertitlepage checks so that if they are
% in effect the toc pages will come out with page numbers.
\HEADINGSon
%
% When we turn headings on, set the page number to 1.
% For double-sided printing, put current file name in lower left corner,
% chapter name on inside top of right hand pages, document
% title on inside top of left hand pages, and page numbers on outside top
% edge of all pages.
def\headingsdouble{%
global\pageno=1
\global\evenfootline={\hfil}
\global\oddfootline={\hfil}
\global\evenheadline={\line{\folio\hfil\thistitle}}
\global\oddheadline={\line{\thischapter\hfil\folio} }
\global\let\contentsalignmacro = \chappager
}
def\contenstationalignmacro = \chappager

% For single-sided printing, chapter title goes across top left of page,
% page number on top right.
def\headingssingle{%
global\pageno=1
\global\evenfootline={\hfil}
\global\oddfootline={\hfil}
\global\evenheadline={\line{\thischapter\hfil\folio}}
% Subroutines used in generating headings
% This produces Day Month Year style of output.
% Only define if not already defined, in case a txi-??tex file has set
% up a different format (e.g., txi-cs.tex does this).
\ifx\today\thisisundefined
  \def\today{\number\day\ space
  \ifcase\month
    \or\putwordMJan\or\putwordMFeb\or\putwordMMar\or\putwordMApr
    \or\putwordMMay\or\putwordMJun\or\putwordMJul\or\putwordMAug
    \or\putwordMSep\or\putwordMOct\or\putwordMNov\or\putwordMDec
  \fi
  \space\number\year}
\fi

% @settitle line... specifies the title of the document, for headings.
% It generates no output of its own.
\def\thistitle{\putwordNoTitle}
\def\settitle{\parsearg{\gdef\thistitle}}

\message{tables,}
% Tables -- @table, @ftable, @vtable, @item(x).
\def\next[\doignore{#1}]% 
\else 
  \let\next\tablex 
\fi 
\next 
\def\tablex#1{\def\itemindicate{#1}\parsearg\tabley} 
\def\tabley#1{\{\makevalueexpandable \def\temp{\noexpand\tablez #1\space\space\space}\expandafter \temp \endtablez \}} 
\def\tablez #1 #2 #3 #4\endtablez{\aboveenvbreak \ifnum 0#1>0 \advance\leftskip by #1\mil \fi \ifnum 0#2>0 \tableindent=#2\mil \fi \ifnum 0#3>0 \advance\rightskip by #3\mil \fi \itemmax=\tableindent \advance\itemmax by -\itemmargin \advance \leftskip by \tableindent \exdentamount=\tableindent \parindent = 0pt \parskip = \smallskipamount \ifdim \parskip=0pt \parskip=2pt \fi \let\item = \internalBitem \let\itemx = \internalBitemx} 
\def\Etable{\endgraf\afterenvbreak} 
\let\Eftable=Etable 
\let\Evtable=Etable 
\let\Eitemize=Etable 
\let\Eenumerate=Etable 
\newcount \itemno 
\newcount \etitemno 
\newcount \doitemize 
\doitemize#1[\parsearg\doitemize] 
\def\doitemize#1[% 
\aboveenvbreak \ifnum \doitemize>0 \advance\leftskip by \doitemize\mil \fi \itemmax=\doitemmax \advance\itemmax by -\itemmargin 
\parindent = 0pt \parskip = \smallskipamount \ifdim \parskip=0pt \parskip=2pt \fi \let\item = \internalBitem \let\itemx = \internalBitemx 
\] 
\def\Etable{\endgraf\afterenvbreak} 
\let\Eftable=Etable 
\let\Evtable=Etable 
\let\Eitemize=Etable 
\let\Eenumerate=Etable 

% This is the counter used by \enumerate, which is really \itemize

\newcount \itemno 
\envdef\itemize[\parsearg\doitemize] 
\def\doitemize#1[\parsearg\doitemize] 
\def\doitemize#1[% 
\aboveenvbreak \ifnum \doitemize>0 \advance\leftskip by \doitemize\mil \fi \itemmax=\doitemindent \advance\itemmax by -\itemmargin
\advance\leftskip by \itemindent
\exdentamount=\itemindent
\parindent=0pt
\parskip=\smallskipamount
\ifdim\parskip=0pt \parskip=2pt \fi

% Try typesetting the item mark that if the document erroneously says
% something like @itemize @samp (intending @table), there's an error
% right away at the @itemize. It's not the best error message in the
% world, but it's better than leaving it to the @item. This means if
% the user wants an empty mark, they have to say @w {} not just @w.
\def\itemcontents{#1}%
\setbox0 = \hbox{\itemcontents}%
%
% @itemize with no arg is equivalent to @itemize @bullet.
\ifx\itemcontents\empty\def\itemcontents{\bullet}\fi
%
\let\item=@itemizeitem
%
% Definition of @item while inside @itemize and @enumerate.
%
\def\itemizeitem{%
\advance\itemno by 1  % for enumerations
{\let\par=\endgraf \smallbreak}% reasonable place to break
%
% If the document has an @itemize directly after a section title, a
% \nobreak will be last on the list, and \sectionheading will have
% done a \vskip-\parskip. In that case, we don't want to zero
% \parskip, or the item text will crash with the heading. On the
% other hand, when there is normal text preceding the item (as there
% usually is), we do want to zero \parskip, or there would be too much
% space. In that case, we won't have a \nobreak before. At least
% that's the theory.
\ifnum\lastpenalty<10000 \parskip=0in \fi
\noindent
\hbox to 0pt{\hss \itemcontents \kern\itemmargin}%
%
% \vadjust{\penalty 1200} % not good to break after first line of item.
\flushcr
}

% \splitoff TOKENS\endmark defines \first to be the first token in
% TOKENS, and \rest to be the remainder.
%
\def\splitoff#1#2\endmark{\def\first{#1}\def\rest{#2}}%

% Allow an optional argument of an uppercase letter, lowercase letter,
% or number, to specify the first label in the enumerated list. No
% argument is the same as `1'.
%
\envparseargdef\enumerate{\enumeratey #1 \endenumeratey}
\def\enumeratey #1 #2\endenumeratey{% 
  % If we were given no argument, pretend we were given `1'.
  \def\thearg{#1}%
  \ifx\thearg\empty \def\thearg{1}\fi
  %
  % Detect if the argument is a single token. If so, it might be a
  % letter. Otherwise, the only valid thing it can be is a number.
  % (We will always have one token, because of the test we just made.
  % This is a good thing, since \splitoff doesn't work given nothing at
  % all -- the first parameter is undelimited.)
  \expandafter\splitoff\thearg\endmark
  \ifx\rest\empty
    % Only one token in the argument. It could still be anything.
    % A ``lowercase letter'' is one whose \lccode is nonzero.
    % An ``uppercase letter'' is one whose \lccode is both nonzero, and
    % not equal to itself.
    % Otherwise, we assume it's a number.
    %
    % We need the \relax at the end of the \ifnum lines to stop TeX from
    % continuing to look for a <number>.
    %
    \ifnum\lccode\expandafter`\thearg=0\relax
      \numericenumerate % a number (we hope)
    \else
      % It's a letter.
      \ifnum\lccode\expandafter`\thearg=\expandafter`\thearg\relax
        \lowercaseenumerate % lowercase letter
      \else
        \uppercaseenumerate % uppercase letter
      \fi
    \fi
  \else
    % Multiple tokens in the argument. We hope it's a number.
    \numericenumerate
  \fi
}

% An @enumerate whose labels are integers. The starting integer is
% given in \thearg.
%
\def\numericenumerate{%
  \itemno = \thearg
  \startenumeration{\the\itemno}%
}

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% The starting (lowercase) letter is in \thearg.
def\lowercaseenumerate{ 
\itemno = \expandafter`\thearg 
\startenumeration{ 
  % Be sure we're not beyond the end of the alphabet. 
  \ifnum\itemno=0 
    \errmessage{No more lowercase letters in @enumerate; get a bigger alphabet} 
  \fi 
  \char\lccode\itemno 
}% 
}

% The starting (uppercase) letter is in \thearg.
def\uppercaseenumerate{ 
\itemno = \expandafter`\thearg 
\startenumeration{ 
  % Be sure we're not beyond the end of the alphabet. 
  \ifnum\itemno=0 
    \errmessage{No more uppercase letters in @enumerate; get a bigger alphabet} 
  \fi 
  \char\uccode\itemno 
}% 
}

% Call \doitemize, adding a period to the first argument and supplying the common last two arguments. Also subtract one from the initial value in \itemno, since @item increments \itemno. 
\def\startenumeration#1{ 
\advance\itemno by -1 
\doitemize{#1.}\flushcr }

% \alphaenumerate and \capsenumerate are abbreviations for giving an arg to @enumerate. 
% \def\alphaenumerate{\enumerate{a}} 
% \def\capsenumerate{\enumerate{A}} 
% \def\Ealphaenumerate{\Eenumerate} 
% \def\Ecapsenumerate{\Eenumerate}

% @multitable macros 
% Amy Hendrickson, 8/18/94, 3/6/96
% @multitable ... @end multitable will make as many columns as desired.
% Contents of each column will wrap at width given in preamble. Width
% can be specified either with sample text given in a template line,
% or in percent of \hsize, the current width of text on page.

% Table can continue over pages but will only break between lines.

% To make preamble:
%
% Either define widths of columns in terms of percent of \hsize:
% @multitable @columnfractions .25 .3 .45
% @item ...
%
% Numbers following @columnfractions are the percent of the total
% current hsize to be used for each column. You may use as many
% columns as desired.

% Or use a template:
% @multitable {Column 1 template} {Column 2 template} {Column 3 template}
% @item ...
% using the widest term desired in each column.

% Each new table line starts with @item, each subsequent new column
% starts with @tab. Empty columns may be produced by supplying @tab's
% with nothing between them for as many times as empty columns are needed,
% ie, @tab@tab@tab will produce two empty columns.

% @item, @tab do not need to be on their own lines, but it will not hurt
% if they are.

% Sample multitable:

% @multitable {Column 1 template} {Column 2 template} {Column 3 template}
% @item first col stuff @tab second col stuff @tab third col
% @item
% first col stuff
% @tab
% second col stuff
% @tab
% third col
% @item first col stuff @tab second col stuff
% @tab Many paragraphs of text may be used in any column.
%
% They will wrap at the width determined by the template.
% @item@tab@tab This will be in third column.
% @end multitable
% Default dimensions may be reset by user.
% @multitableparskip is vertical space between paragraphs in table.
% @multitableparindent is paragraph indent in table.
% @multitablecolmargin is horizontal space to be left between columns.
% @multitablelinespace is space to leave between table items, baseline
% to baseline.
% 0pt means it depends on current normal line spacing.
%
\newskip\multitableparskip
\newskip\multitableparindent
\newdimen\multitablecolspace
\newskip\multitablelinespace
\multitableparskip=0pt
\multitableparindent=6pt
\multitablecolspace=12pt
\multitablelinespace=0pt

% Macros used to set up halign preamble:
%
\let\endsetuptable\relax
\def\xendsetuptable{\endsetuptable}
\let\columnfractions\relax
\def\xcolumnfractions{\columnfractions}
\newif\ifsetpercent

% #1 is the @columnfraction, usually a decimal number like .5, but might
% be just 1. We just use it, whatever it is.
%
\def\pickupwholefraction#1 {% 
\global\advance\colcount by 1
\expandafter\xdef\csname col\the\colcount\endcsname{#1\hsize} %
\setuptable
}

%newcount\colcount
\def\setuptable#1{ %
\def\firstarg{#1}%
\ifx\firstarg\xendsetuptable
\let\go = \relax
\else
\ifx\firstarg\xcolumnfractions
\expandafter\columnfractions \the\colcount\hsize %
\setuptable
\else
\ifsetpercent
\let\go=\pickupwholefraction
\else
\global\advance\colcount by 1
\setbox0=\hbox{#1\unskip\space} % Add a normal word space as a
% separator; typically that is always in the input, anyway.
\expandafter\xdef\csname col\the\colcount\endsname{\the\wd0}%
\fi
\fx\go\pickupwholefraction
% Put the argument back for the \pickupwholefraction call, so
% we'll always have a period there to be parsed.
\def\go{\pickupwholefraction#1}%
\else
\let\go = \setuptable
\fi%
\fi
\go
}

% multitable-only commands.
%
% @headitem starts a heading row, which we typeset in bold.
% Assignments have to be global since we are inside the implicit group
% of an alignment entry. \everycr resets \everytab so we don't have to
% undo it ourselves.
\def\headitemfont{\bf}% for people to use in the template row; not changeable
\def\headitem{%
\checkenv\multitable
\crcr
\global\everytab={\bf}% can't use \headitemfont since the parsing differs
\the\everytab % for the first item
}%
%
% A \tab used to include \hskip1sp. But then the space in a template
% line is not enough. That is bad. So let's go back to just `&' until
% we again encounter the problem the 1sp was intended to solve.
%--karl, nathan@acm.org, 20apr99.
\def\tab{\checkenv\multitable &\the\everytab}%

% @multitable ... @end multitable definitions:
%
\newtoks\everytab % insert after every tab.
%
\envdef\multitable{%
\par\parskip
\startsavinginserts
%
% @item within a multitable starts a normal row.
% We use \def instead of \let so that if one of the multitable entries
% contains an @itemize, we don't choke on the \item (seen as \cr\craka
% \enditem) expanding \doitemize.
\def\item{\cr\cr}%
% tolerance=9500
% hbadness=9500
% setmultitablespacing
% parskip=multitableparskip
% parindent=multitableparindent
% overfullrule=0pt
% global\colcount=0
%
% everycr = { %
% noalign{%
% global\everytab={}%
% global\colcount=0 % Reset the column counter.
% Check for saved footnotes, etc.
% checkinserts
% Keeps underfull box messages off when table breaks over pages.
%\filbreak
% Maybe so, but it also creates really weird page breaks when the
% table breaks over pages. Wouldn't \vfil be better? Wait until the
% problem manifests itself, so it can be fixed for real --karl.
}%
}%
%
%\parsearg\domultitable
%
def\domultitable#1{%
% To parse everything between @multitable and @item:
\setuptable#1 \endsetuptable
%
% This preamble sets up a generic column definition, which will
% be used as many times as user calls for columns.
% \vtop will set a single line and will also let text wrap and
% continue for many paragraphs if desired.
%\align\begin{tabular}{%}
%\global\advance\colcount by 1
%\multistut
%\vtop{%
% Use the current \colcount to find the correct column width:
%\hsize=expandafter\csname col\the\colcount\endcsname
%
% In order to keep entries from bumping into each other
% we will add a \leftskip of \multitablecolspace to all columns after
% the first one.
%
% If a template has been used, we will add \multitablecolspace
% to the width of each template entry.
%
% If the user has set preamble in terms of percent of \hsize we will
% use that dimension as the width of the column, and the \leftskip
% will keep entries from bumping into each other. Table will start at
% left margin and final column will justify at right margin.
%
% Make sure we don't inherit \rightskip from the outer environment.
% \rightskip=0pt
% ifnum\colcount=1
% The first column will be indented with the surrounding text.
% advance\hsize by\leftskip
% else
% ifsetpercent\else
% if we have not set preamble in terms of percent of \hsize
% we will advance \hsize by \multitablecolspace.
% advance\hsize by \multitablecolspace
% fi
% In either case we will make \leftskip=\multitablecolspace:
% \leftskip=\multitablecolspace
% fi
% Ignoring space at the beginning and end avoids an occasional spurious
% blank line, when TeX decides to break the line at the space before the
% box from the multistrut, so the strut ends up on a line by itself.
% For example:
% @multitable @columnfractions .11 .89
% @item @code{#}
% @tab Legal holiday which is valid in major parts of the whole country.
% Is automatically provided with highlighting sequences respectively
% marking characters.
% noindent\ignorespaces##\unskip\multistrut
}{\cr
}{\Emultitable{%
}{\cr
}{\egroup % end the \halign
}{\glocal\setpercentfalse
}
{\def\Emultitable{%
}{\cr
}{\egroup % end the \halign
}{\glocal\setpercentfalse
}
{\def\Emultitable{%
}{\cr
}{\egroup % end the \halign
}{\glocal\setpercentfalse
}
{\def\Emultitable{%
}{\cr
}{\egroup % end the \halign
}{\glocal\setpercentfalse
}}
% table. If not, do nothing.
% If so, set to same dimension as multitablelinespace.
\ifdim\multitableparskip>\multitablelinespace
\global\multitableparskip=\multitablelinespace
\global\advance\multitableparskip-7pt % to keep parskip somewhat smaller
  % than skip between lines in the table.
\fi%
\ifdim\multitableparskip=0pt
\global\multitableparskip=\multitablelinespace
\global\advance\multitableparskip-7pt % to keep parskip somewhat smaller
  % than skip between lines in the table.
\fi

\message{conditionals,}

% @iftex, @ifnotdocbook, @ifnothtml, @ifnotinfo, @ifnotplaintext,
% @ifnotxml always succeed. They currently do nothing; we don't
% attempt to check whether the conditionals are properly nested. But we
% have to remember that they are conditionals, so that @end doesn't
% attempt to close an environment group.
%
\def\makecond#1{%
  \expandafter\let\csname #1\endcsname = \relax
  \expandafter\let\csname iscond.#1\endcsname = 1
}
\makecond{iftex}
\makecond{ifnotdocbook}
\makecond{ifnothtml}
\makecond{ifnotinfo}
\makecond{ifnotplaintext}
\makecond{ifnotxml}

% Ignore @ignore, @ifhtml, @ifinfo, and the like.
%
\def\direnty{\doignore{direnty}}
\def\documentdescription{\doignore{documentdescription}}
\def\docbook{\doignore{docbook}}
\def\html{\doignore{html}}
\def\ifdocbook{\doignore{ifdocbook}}
\def\ifhtml{\doignore{ifhtml}}
\def\ifinfo{\doignore{ifinfo}}
\def\ifnottex{\doignore{ifnottex}}
\def\ifplaintext{\doignore{ifplaintext}}
\def\xml{\doignore{xml}}
\def\menu{\doignore{menu}}
% Ignore text until a line `@end #1', keeping track of nested conditionals.
%
% A count to remember the depth of nesting.
\newcount\doignorecount

\def\doignore#1{\begingroup
% Scan in `verbatim' mode:
\obeylines
\catcode`\@ = \other
\catcode`\{ = \other
\catcode`\} = \other
%
% Make sure that spaces turn into tokens that match what \doignoretex wants.
\spaceisspace%
%
% Count number of #1's that we've seen.
\doignorecount = 0%
%
% Swallow text until we reach the matching `@end #1'.
\dodoignore{#1}%
}

{% \catcode`_ = 11 \% We want to use \_STOP_ which cannot appear in texinfo source.
\obeylines%
%
\gdef\dodoignore#1{%
% #1 contains the command name as a string, e.g., `ifinfo'.
%
% Define a command to find the next `@end #1'.
\long\def\doignoretex#1^^M@end #1{}{%
 \doignoretexyyyy##1^^M@##1\_STOP_}{%}
%
% And this command to find another #1 command, at the beginning of a
% line.  (Otherwise, we would consider a line `@c @ifset', for
% example, to count as an @ifset for nesting.)
\long\def\doignoretexyyyy##1^^M@##1##2\_STOP_\_\doignoreyy##2\_STOP_}{%}
%
% And now expand that command.
\doignoretex ^^^M%
}%}

{% \def\doignoreyyy#1{%\def\temp[#1]%
 \ifx\temp\empty\% Nothing found.
 \let\next\doignoretexzzz
 \else\% Found a nested condition, ...
\endgroup}
\advance\doignorecount by 1
\let\next\doignoretextyyy% ..., look for another.
% If we're here, #1 ends with ^^M\texttt{info} (for example).
\fi
\next #1% the token \_STOP_ is present just after this macro.
}

% We have to swallow the remaining "\_STOP_".
%
\def\doignoretextzzz#1{%
\ifnum\doignorecount = 0\t% We have just found the outermost @end.
\let\next\enddoignore
\else% Still inside a nested condition.
\advance\doignorecount by -1
\let\next\doignoretext% Look for the next @end.
\fi
\next
}

% Finish off ignored text.
{ \obeylines%
% Ignore anything after the last `@end #1'; this matters in verbatim
% environments, where otherwise the newline after an ignored conditional
% would result in a blank line in the output.
\gdef\enddoignore#1\endgroup\ignorespaces}{%}

% @set VAR sets the variable VAR to an empty value.
% @set VAR REST-OF-LINE sets VAR to the value REST-OF-LINE.
%
% Since we want to separate VAR from REST-OF-LINE (which might be
% empty), we can't just use \parsearg; we have to insert a space of our
% own to delimit the rest of the line, and then take it out again if we
% didn't need it.
% We rely on the fact that \parsearg sets \texttt{\catcode`\textbackslash =10}.
%
\parsearg\def\set{
\setyyy#1 \endsetyyy}
\def\setyyy#1 #2\endsetyyy{%
{%
\makevalueexpandable
\def\temp{#2}%
\edef\next{\gdef\makecsname{SET#1}}%
\ifx\temp\empty
\next[]%
\else
\setzzz#2\endsetzzz
\fi
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% @ifset VAR ... @end ifset reads the `...' iff VAR has been defined
% with @set.
%
% To get special treatment of `@end ifset,' call \makecond and the redefine.
%
\makecond{ifset}
\def\ifset{%parsearg{\doifset{\let\next=\ifsetfail}}}
\def\doifset#1#2{%
  \% \makevalueexpandable
  \let\next=\empty
  \expandafter\ifx\csname SET#2\endcsname\relax
    #1% If not set, redefine \next.
  \fi
  \expandafter\next
}\ifsetfail{\doignore{ifset}}

% @ifclear VAR ... @end executes the `...' iff VAR has never been
% defined with @set, or has been undefined with @clear.
%
% The `else' inside the `\doifset' parameter is a trick to reuse the
% above code: if the variable is not set, do nothing, if it is set,
% then redefine \next to \ifclearfail.
%
\makecond{ifclear}
\def\ifclear{%parsearg{\doifset{\else \let\next=\ifclearfail}}}
\def\ifclearfail{\doignore{ifclear}}

% @ifcommandisdefined CMD ... @end executes the `...' if CMD (written
% without the @) is in fact defined. We can only feasibly check at the
% TeX level, so something like `mathcode' is going to considered
% defined even though it is not a Texinfo command.
%
\makecond{ifcommanddefined}
\def\ifcommanddefined{%parsearg{\doifcmddefined{\let\next=\ifcmddefinedfail}}}
\def\doifcmddefined#1#2{%
  \makevalueexpandable
  \let\next=\empty
  \expandafter\ifx\csname #2\endcsname\relax
    #1% If not defined, \let\next as above.
  \fi
  \expandafter\next
}\ifcmddefinedfail{\doignore{ifcommanddefined}}
\makecond{ifcommandnotdefined}
\def\ifcommandnotdefined{
\parsearg{\doifcmddefined{\else \let\next=\ifcmdnotdefinedfail}}} \def\ifcmdnotdefinedfail{\doignore{ifcommandnotdefined}}

% Set the `txicommandconditionals` variable, so documents have a way to
% test if the @ifcommand...defined conditionals are available.
\set txicommandconditionals

% @dircategory CATEGORY -- specify a category of the dir file
% which this file should belong to. Ignore this in TeX.
\let\dircategory=\comment

% @defininfoenclose.
\let\defininfoenclose=\comment

\message{indexing,}
% Index generation facilities

% Define \newwrite to be identical to plain tex's \newwrite
% except not \outer, so it can be used within macros and \if's.
\edef\newwrite{\makecsname{ptexnewwrite}}

% \newindex {foo} defines an index named foo.
% It automatically defines \fooindex such that
% \fooindex ...rest of line... puts an entry in the index foo.
% It also defines \fooindfile to be the number of the output channel for
% the file that accumulates this index. The file's extension is foo.
% The name of an index should be no more than 2 characters long
% for the sake of vms.
% 
\def\newindex#1{%
    \iflinks
        \expandafter\newwrite \csname#1indfile\endcsname
        \openout \csname#1indfile\endcsname \jobname.#1 % Open the file
    \fi
    \expandafter\xdef\csname#1index\endcsname{%
        \noexpand\doindex{#1}}
}

% @defindex foo  ==  \newindex{foo}
%
\def\defindex{
\parsearg\newindex}

% Define \defcodeindex, like \defindex except put all entries in \@code.
\def\defcodeindex{\parsearg\newcodeindex}
\def\newcodeindex#1{%
\iflinks
\expandafter\newwrite\csname#1indfile\endcsname
\openout\csname#1indfile\endcsname\jobname.#1
\fi
\expandafter\xdef\csname#1index\endcsname{%
\noexpand\docodeindex[#1]}
}%

% @synindex foo bar makes index foo feed into index bar.
% Do this instead of @defindex foo if you don’t want it as a separate index.
% % @synindex foo bar similar, but put all entries made for index foo inside @code.
% % \def\synindex#1 #2 {\dosynindex\doindex{#1}{#2}}
\def\syncodeindex#1 #2 {\dosynindex\docodeindex{#1}{#2}}
% #1 is \doindex or \docodeindex, #2 the index getting redefined (foo),
% #3 the target index (bar).
\def\dosynindex#1#2#3{%
% Only do \closeout if we haven’t already done it, else we’ll end up closing the target index.
\expandafter\ifx\csname donesynindex#2\endcsname\relax
% The \closeout helps reduce unnecessary open files; the limit on the
% Acorn RISC OS is a mere 16 files.
\expandafter\closeout\csname#2indfile\endcsname
\expandafter\let\expandafter\temp\expandafter=\csname#3indfile\endcsname
\expandafter\let\csname#2indfile\endcsname=\temp
% redefine \fooindfile:
\expandafter\let\expandafter=\csname#3indfile\endcsname
\expandafter\let\csname#2indfile\endcsname=\temp
% redefine \fooindex:
\expandafter\xdef\csname#2index\endcsname{%noexpand\doindex[#3]}
}%

% Define \doindex, the driver for all \fooindex macros.
% Argument #1 is generated by the calling \fooindex macro,
% and it is "foo", the name of the index.

% \doindex just uses \parsearg; it calls \doind for the actual work.
% This is because \doind is more useful to call from other macros.

% There is also \dosubind [index]{topic}{subtopic}
which makes an entry in a two-level index such as the operation index.

\def\doindex#1{\edef\indexname{#1}\parsearg\singleindexer}
\def\singleindexer #1{\doind{\indexname}{#1}}

% like the previous two, but they put @code around the argument.
\def\docodeindex#1{\edef\indexname{#1}\parsearg\singlecodeindexer}
\def\singlecodeindexer #1{\doind{\indexname}{\code{#1}}}

% Take care of Texinfo commands that can appear in an index entry.
% Since there are some commands we want to expand, and others we don't,
% we have to laboriously prevent expansion for those that we don't.
% \def\indexdummies{%
\escapechar = `\     % use backslash in output files.
\def\@{@}% change to @@ when we switch to @ as escape char in index files.
\def\realbackslash\space }%
%
% Need these unexpandable (because we define \tt as a dummy)
% definitions when @{ or @} appear in index entry text. Also, more
% complicated, when \text is in effect and \{ is a \delimiter again.
% We can't use \lbrackcmd and \rbrackcmd because texindex assumes
% braces and backslashes are used only as delimiters. Perhaps we
% should define @lbrace and @rbrace commands a la @comma.
\def\{{\tt\char123}}%
\def\}{{\tt\char125}}%
%
% I don't entirely understand this, but when an index entry is
% generated from a macro call, the \endinput which \scanmacro inserts
% causes processing to be prematurely terminated. This is,
% apparently, because \indexsorttmp is fully expanded, and \endinput
% is an expandable command. The redefinition below makes \endinput
% disappear altogether for that purpose -- although logging shows that
% processing continues to some further point. On the other hand, it
% seems \endinput does not hurt in the printed index arg, since that
% is still getting written without apparent harm.
%
% Sample source (mac-idx3.tex, reported by Graham Percival to
% help-texinfo, 22may06):
% @macro funindex {WORD}
% @findex xyz
% @end macro
% ...
% @funindex commtest
%
% The above is not enough to reproduce the bug, but it gives the flavor.
%
\% .@write3\{entry\{xyz\}\{folio\}\{code \{xyz@endinput \}\}\}
\%
\% So:
\let\endinput = \empty
\%
\% Do the redefinitions.
\commondummies
}

\%
\% For the aux and toc files, @ is the escape character. So we want to
\% redefine everything using @ as the escape character (instead of
\% \realbackslash, still used for index files). When everything uses @,
\% this will be simpler.
\%
\def\atdummies{%
\def\@ {@@}%
\def\ { }%  
\let\{ = \lbraceatcmd
\let\} = \rbraceatcmd
\%
\% Do the redefinitions.
\commondummies
\otherbackslash
}

\%
\% Called from \indexdummies and \atdummies.
\%
\def\commondummies{%
%
\%
\% \definedummyword defines \#1 as \string\#1\space, thus effectively
\% preventing its expansion. This is used only for control words,
\% not control letters, because the \space would be incorrect for
\% control characters, but is needed to separate the control word
\% from whatever follows.
\%
\%
\% For control letters, we have \definedummyletter, which omits the
\% space.
\%
\%
\% These can be used both for control words that take an argument and
\% those that do not. If it is followed by \{arg\} in the input, then
\% that will dutifully get written to the index (or wherever).
\%
\def\definedummyword \#1{\def\#1{\string\#1\space}}%
\def\definedummyletter\#1{\def\#1{\string\#1}}%
\def\definedummyaccent\definedummyletter
%
\commondummiesnوفonts
%
Although these internal commands shouldn't show up, sometimes they do.
\% We want to disable all macros so that they are not expanded by \write. 
\% \
\% Handle some cases of @value -- where it does not contain any 
\% (non-fully-expandable) commands. 
\% \makevalueexpandable 
\%
\% \commondummiesnofonts: common to \commondummies and \indexnofonts. 
\% 
\def\commondummiesnofonts{\% 
\% Control letters and accents. 
\definedummyletter\!\% 
\definedummyaccent\"\% 
\definedummyaccent\'\% 
\definedummyletter\*\% 
\definedummyletter\,\% 
\definedummyletter\./\% 
\definedummyletter\:\% 
\definedummyletter\V\% 
\definedummyletter\^\% 
\definedummyaccent\=\% 
\definedummyletter\?\%
}
\def\indexnofonts{% 
% Accent commands should become @asis.
\def\definedummyaccent##1{\let##1\asis}%
% We can just ignore other control letters.
\def\definedummyletter##1{\let##1\empty}%
% All control words become @asis by default; overrides below.
\let\definedummyword\definedummyaccent
%
%commondummiesnofonts
%
% Don't no-op \tt, since it isn't a user-level command
% and is used in the definitions of the active chars like <, >, |, etc.
% Likewise with the other plain tex font commands.
%\let\tt=\asis
%
\def\ {}%
\def\@{[@]}
\def\_(\normalunderscore)
\def-{} % @- shouldn't affect sorting
%
% Unfortunately, texindex is not prepared to handle braces in the
% content at all. So for index sorting, we map @{ and @} to strings
% starting with |, since that ASCII character is between ASCII { and }.
\def\{|[a]|
\def\bracechar{|a}%
%
\def\}{{b}%
\def\bracechar{{b}%
%
% Non-English letters.
\def\AA{AA}%
\def\AE{AE}%
\def\DH{DZZ}%
\def\L{L}%
\def\OE{OE}%
% We need to get rid of all macros, leaving only the arguments (if present).
% Of course this is not nearly correct, but it is the best we can do for now.
% makeinfo does not expand macros in the argument to @defn, which ends up
% writing an index entry, and texindex isn't prepared for an index sort entry
% that starts with \.
%
% Since macro invocations are followed by braces, we can just redefine them
% to take a single TeX argument. The case of a macro invocation that
% goes to end-of-line is not handled.
%
\macrolist
%
% Undocumented (for FSFS 2nd ed.): @set txiindexlquoteignore makes us
% ignore left quotes in the sort term.
{\catcode`\=active
\gdef\indexlquoteignore{\let`\=empty}}

\let\indexbackslash=0  % overridden during \printindex.
\let\SETmarginindex=\relax % put index entries in margin (undocumented)?

% Most index entries go through here, but \dosubind is the general case.
% #1 is the index name, #2 is the entry text.
\def\doind#1#2{\dosubind{#1}{#2}{}}

% Workhorse for all \fooindexes.
% #1 is name of index, #2 is stuff to put there, #3 is subentry --
% empty if called from \doind, as we usually are (the main exception
% is with most defuns, which call us directly).
%
\def\dosubind#1#2#3{%
% #2 is the main index entry text (including the third arg).
\toks0 = (#2)%
% If third arg is present, precede it with a space.
\def\thirdarg{#3}%
\ifx\thirdarg\empty \else
\toks0 = \expandafter{\the\toks0 \space #3}%
\fi
%
\edef\writeto{\csname#1indfile\endcsname}%
% Write the entry in \toks0 to the index file:
%
\def\dosubindwrite{%
% Put the index entry in the margin if desired.
\if\SETmarginindex\relax\else
 \insertmargin{\vbox{\hrule height8pt depth3pt width0pt \the\toks0}} %
\fi
%
% Remember, we are within a group.
\indexdummies % Must do this here, since \bf, etc expand at this stage
\def\backslashcurfont{\indexbackslash}% \indexbackslash isn't defined now
  % so it will be output as is; and it will print as backslash.
%
% Process the index entry with all font commands turned off, to
% get the string to sort by.
{\indexnofonts
 \edef\temp{\the\toks0} % need full expansion
 \edef\indexsorttmp{\temp}%
 }%
%
% Set up the complete index entry, with both the sort key and
% the original text, including any font commands. We write
% three arguments to \entry to the .?? file (four in the
% subentry case), texindex reduces to two when writing the .??s
% sorted result.
\edef\temp{%
 \write\writeto{%
   \string\entry{\indexsorttmp}{\noexpand\folio}{\the\toks0}}%
 }%
\temp
%
% Take care of unwanted page breaks/skips around a whatsit:
%
% If a skip is the last thing on the list now, preserve it
% by backing up by \lastskip, doing the \write, then inserting
% the skip again. Otherwise, the whatsit generated by the
% \write or \pdfdest will make \lastskip zero. The result is that
% sequences like this:
% @end defun
% @tindex whatever
% @defun ...
% will have extra space inserted, because the \medbreak in the
\% start of the @defun won't see the skip inserted by the @end of
\% the previous defun.
\%
\% But don't do any of this if we're not in vertical mode. We
\% don't want to do a \vskip and prematurely end a paragraph.
\%
\% Avoid page breaks due to these extra skips, too.
\%
\% But wait, there is a catch there:
\% We'll have to check whether \lastskip is zero skip. \ifdim is not
\% sufficient for this purpose, as it ignores stretch and shrink parts
\% of the skip. The only way seems to be to check the textual
\% representation of the skip.
\%
\% The following is almost like \def\zeroskipmacro{0.0pt} except that
\% the ``p'' and ``t'' characters have catcode \other, not 11 (letter).
\%
\edef\zeroskipmacro{\expandafter\the\csname z@skip\endcsname}
\%
\newskip\whatsitskip
\newcount\whatsitpenalty
%
% ... ready, GO:
%
\def\safewhatsit#1{\ifhmode
#1%
\else
\lastskip and \lastpenalty cannot both be nonzero simultaneously.
\whatsitskip = \lastskip
\edef\lastskipmacro{\the\lastskip}%
\whatsitpenalty = \lastpenalty
%
% If \lastskip is nonzero, that means the last item was a
% skip. And since a skip is discardable, that means this
% -\whatsitskip glue we're inserting is preceded by a
% non-discardable item, therefore it is not a potential
% breakpoint, therefore no \nobreak needed.
\ifx\lastskipmacro\zeroskipmacro
\else
\vskip-\whatsitskip
\fi
%
% If \lastskip was zero, perhaps the last item was a penalty, and
% perhaps it was >=10000, e.g., a \nobreak. In that case, we want
% to re-insert the same penalty (values >10000 are used for various
% signals); since we just inserted a non-discardable item, any
% following glue (such as a \parskip) would be a breakpoint. For example:
% @deffn deffn-whatever
% @vindex index-whatever
% Description.
% would allow a break between the index-whatever whatsit
% and the "Description." paragraph.
% \ifnum\whatsitpenalty>9999 \penalty\whatsitpenalty \fi
% else
% On the other hand, if we had a nonzero \lastskip,
% this make-up glue would be preceded by a non-discardable item
% (the whatsit from the \write), so we must insert a \nobreak.
% \nobreak\vskip\whatsitskip
% \fi
% \fi
%
% The index entry written in the file actually looks like
% \entry {sortstring} {page} {topic}
% or
% \entry {sortstring} {page} {topic} {subtopic}
% The texindex program reads in these files and writes files
% containing these kinds of lines:
% \initial {c}
% before the first topic whose initial is c
% \entry {topic} {pagelist}
% for a topic that is used without subtopics
% \primary {topic}
% for the beginning of a topic that is used with subtopics
% \secondary {subtopic} {pagelist}
% for each subtopic.
%
% Define the user-accessible indexing commands
% @findex, @vindex, @kindex, @cindex.

\def\findex \fnindex
\def\kindex \kyindex
\def\cindex \cpindex
\def\vindex \vrindex
\def\tindex \tpindex
\def\pindex \pgindex
\def\cindexsub \begingroup\obeylines\cindexsub
{\obeylines %
gdef\cindexsub "#1" #2^^M\endgroup %
dosubind{cp}[#2] [#1]}}
%
% Define the macros used in formatting output of the sorted index material.
% @printindex causes a particular index (the ??s file) to get printed.
% It does not print any chapter heading (usually an @unnumbered).
% 
\parseargdef\printindex{\begingroup
\dobreak \chapheadingskip{10000}%

% \smallfonts \rm
\tolerance = 9500
\plainfrenchspacing
\everypar = {}% don't want the \kern\parindent from indentation suppression.
%
% See if the index file exists and is nonempty.
% Change catcode of @ here so that if the index file contains
% \initial { @ }
% as its first line, TeX doesn't complain about mismatched braces
% (because it thinks @ } is a control sequence).
\catcode`\@ = 11
\openin 1 \jobname.#1s
\ifeof 1
  \enddoublecolumns gets confused if there is no text in the index,
  and it loses the chapter title and the aux file entries for the
  index. The easiest way to prevent this problem is to make sure
  there is some text.
  \putwordIndexNonexistent
\else
  % If the index file exists but is empty, then \openin leaves \ifeof
  % false. We have to make TeX try to read something from the file, so
  % it can discover if there is anything in it.
  \read 1 to \temp
  \ifeof 1
    \putwordIndexIsEmpty
  \else
    % Index files are almost Texinfo source, but we use \ as the escape
    % character. It would be better to use @, but that's too big a change
    % to make right now.
    \def\indexbackslash{\backslashcurfont}%
    \catcode`\\ = 0
    \escapechar = `\%
    \begindoublecolumns
    \input \jobname.#1s
  \enddoublecolumns
  \fi
  \fi
\closein 1
\endgroup}
%
% These macros are used by the sorted index file itself.
\def\initial#1{%
% Some minor font changes for the special characters.
% \let\tntt=\sectt \let\tt=\sectt \let\sf=\sectt
%
% Remove any glue we may have, we'll be inserting our own.
% \removelastskip
%
% We like breaks before the index initials, so insert a bonus.
% \nobreak
% \vskip 0pt plus 3\baselineskip
% \penalty 0
% \vskip 0pt plus -3\baselineskip
%
% Typeset the initial. Making this add up to a whole number of
% baselineskips increases the chance of the dots lining up from column
% to column. It still won't often be perfect, because of the stretch
% we need before each entry, but it's better.
%
% No shrink because it confuses \balancecolumns.
% \vskip 1.67\baselineskip plus .5\baselineskip
% \deftline{\sectbf #1}%
% Do our best not to break after the initial.
% \nobreak
% \vskip .33\baselineskip plus .1\baselineskip
}

% \entry typesets a paragraph consisting of the text (#1), dot leaders, and
% then page number (#2) flushed to the right margin. It is used for index
% and table of contents entries. The paragraph is indented by \leftskip.
%
% A straightforward implementation would start like this:
% \def\entry#1#2{...
% But this freezes the catcodes in the argument, and can cause problems to
% @code, which sets - active. This problem was fixed by a kludge---
% ````` was active throughout whole index, but this isn't really right.
% The right solution is to prevent \entry from swallowing the whole text.
% --kasal, 21nov03
\def\entry{%
\begingroup
%
% Start a new paragraph if necessary, so our assignments below can't
% affect previous text.
\par
%
% Do not fill out the last line with white space.
\parfillskip = 0in
% No extra space above this paragraph.
\parskip = 0in
%
% Do not prefer a separate line ending with a hyphen to fewer lines.
\finalhyphendemerits = 0
%
% \hangindent is only relevant when the entry text and page number
do not both fit on one line. In that case, bob suggests starting the
dots pretty far over on the line. Unfortunately, a large
indentation looks wrong when the entry text itself is broken across
lines. So we use a small indentation and put up with long leaders.
%
% \hangafter is reset to 1 (which is the value we want) at the start
% of each paragraph, so we need not do anything with that.
\hangindent = 2em
%
% When the entry text needs to be broken, just fill out the first line
% with blank space.
\rightskip = 0pt plus 1fil
%
% A bit of stretch before each entry for the benefit of balancing
% columns.
\skip 
pt
%
% When reading the text of entry, convert explicit line breaks
% from @* into spaces. The user might give these in long section
titles, for instance.
\def*{[unskip\space\ignorespaces]}%
\def\entrybreak{[\hfil\break]}%
%
% Swallow the left brace of the text (first parameter):
\afterassignment\doentry
\let\temp =
}
\def\entrybreak{[unskip\space\ignorespaces] %
\def\doentry{%
 \bgroup % Instead of the swallowed brace.
 \noindent
 \aftergroup\finishentry
 % And now comes the text of the entry.
}
\def\finishentry#1{%
 % #1 is the page number.
 %
 % The following is kludged to not output a line of dots in the index if
% there are no page numbers. The next person who breaks this will be
% cursed by a Unix daemon.
\catcode`\@=11
\newbox\partialpage
\newdimen\doublecolumnhsize
\def\begindoublecolumns{\begingroup % ended by \enddoublecolumns
% Grab any single-column material above us.
\output = {%
% Here is a possibility not foreseen in manmac: if we accumulate a
% whole lot of material, we might end up calling this \output
% routine twice in a row (see the doublecol-lose test, which is
% essentially a couple of indexes with @setchapternewpage off). In
% that case we just ship out what is in \partialpage with the normal
% output routine. Generally, \partialpage will be empty when this
% runs and this will be a no-op. See the indexspread.tex test case.
@ifvoid\partialpage \else
  \onepageout{\pagecontents\partialpage}%
\fi
%
\global\setbox\partialpage = \vbox{%
% Unvbox the main output page.
  \unvbox\PAGE
  \kern-\topskip \kern\baselineskip
}%
}\eject % run that output routine to set \partialpage
%
% Use the double-column output routine for subsequent pages.
\output = {\doublecolumnout}%
%
% Change the page size parameters. We could do this once outside this
% routine, in each of @smallbook, @afourpaper, and the default 8.5x11
% format, but then we repeat the same computation. Repeating a couple
% of assignments once per index is clearly meaningless for the
% execution time, so we may as well do it in one place.
%
% First we halve the line length, less a little for the gutter between
% the columns. We compute the gutter based on the line length, so it
% changes automatically with the paper format. The magic constant
% below is chosen so that the gutter has the same value (well, +<1pt)
% as it did when we hard-coded it.
%
% We put the result in a separate register, \doublecolumnhsize, so we
% can restore it in \pagesofar, after \hsize itself has (potentially)
% been clobbered.
%
\doublecolumnhsize = \hsize
\advance\doublecolumnhsize by -.04154\hsize
\divide\doublecolumnhsize by 2
\hsize = \doublecolumnhsize
%
% Double the \vsiz as well. (We don't need a separate register here,
% since nobody clobbers \vsiz.)
\vsiz = 2\vsiz
}

% The double-column output routine for all double-column pages except
% the last.
%
\def\doublecolumnout{ %
\splitskip=\topskip \splitmaxdepth=\maxdepth
% Get the available space for the double columns -- the normal
% (undoubled) page height minus any material left over from the
% previous page.
\dimen@ = \vsiz
\divide\dimen@ by 2
\advance\dimen@ by -\ht\partialpage
%
% box0 will be the left-hand column, box2 the right.
\setbox0=\vsplit255 to\dimen@ \setbox2=\vsplit255 to\dimen@
\onepageout\pagesofar
\unvbox255
\penalty\outputpenalty
%
}%
% Re-output the contents of the output page -- any previous material,
% followed by the two boxes we just split, in box0 and box2.
\def\pagesofar{ %
\unvbox\partialpage
%
\hsize = \doublecolumnhsize
\wd0=\hsize \wd2=\hsize
\hbox to\pagewidth{\box0\hfil\box2}
%
}%
% All done with double columns.
\edef\enddoublecolumns{ %
% The following penalty ensures that the page builder is exercised
% _before_ we change the output routine. This is necessary in the
% following situation:
%
% The last section of the index consists only of a single entry.
% Before this section, \pagetotal is less than \pagegoal, so no
% break occurs before the last section starts. However, the last
% section, consisting of \initial and the single \entry, does not
% fit on the page and has to be broken off. Without the following
% penalty the page builder will not be exercised until \eject
% below, and by that time we'll already have changed the output
% routine to the \balancecolumns version, so the next-to-last
% double-column page will be processed with \balancecolumns, which
% is wrong: The two columns will go to the main vertical list, with
% the broken-off section in the recent contributions. As soon as
% the output routine finishes, TeX starts reconsidering the page
% break. The two columns and the broken-off section both fit on the
% page, because the two columns now take up only half of the page
% goal. When TeX sees \eject from below which follows the final
% section, it invokes the new output routine that we've set after
% \balancecolumns below; \onepageout will try to fit the two columns
% and the final section into the vbox of \pageheight (see
% \pagebody), causing an overfull box.
%
% Note that glue won't work here, because glue does not exercise the
% page builder, unlike penalties (see The TeXbook, pp. 280-281).
\penalty0
%
\output = {%
% Split the last of the double-column material. Leave it on the
% current page, no automatic page break.
\balancecolumns
%
% If we end up splitting too much material for the current page,
% though, there will be another page break right after this \output
% invocation ends. Having called \balancecolumns once, we do not
% want to call it again. Therefore, reset \output to its normal
% definition right away. (We hope \balancecolumns will never be
% called on to balance too much material, but if it is, this makes
% the output somewhat more palatable.)
\global\output = {\onepageout{\pagecontents\PAGE}}%
}%
\eject
\endgroup % started in \begindoublecolumns
%
% \pagegoal was set to the doubled \vs size above, since we restarted
% the current page. We're now back to normal single-column
% typesetting, so reset \pagegoal to the normal \vs size (after the
% \endgroup where \vs size got restored).
\pagegoal = \vs size
}
%
% Called at the end of the double column material.
\def\balancecolumns{%
\setbox0 = \vbox{\un vbox\texttt{255}}% like \box255 but more efficient, see p.120.
\newcount\unnumberedno \unnumberedno = 10000
\newcount\chapno
\newcount\secno \secno=0
\newcount\subsecno \subsecno=0
\newcount\subsubsecno \subsubsecno=0

% This counter is funny since it counts through charcodes of letters A, B, ...
\newcount\appendixno \appendixno = \@ %
% \def\appendixletter{\char\the\appendixno}
% We do the following ugly conditional instead of the above simple
% construct for the sake of pdftex, which needs the actual
% letter in the expansion, not just typeset.
%
\def\appendixletter{%
  \ifnum\appendixno=`A A%
  \else\ifnum\appendixno=`B B%
  \else\ifnum\appendixno=`C C%
  \else\ifnum\appendixno=`D D%
  \else\ifnum\appendixno=`E E%
  \else\ifnum\appendixno=`F F%
  \else\ifnum\appendixno=`G G%
  \else\ifnum\appendixno=`H H%
  \else\ifnum\appendixno=`I I%
  \else\ifnum\appendixno=`J J%
  \else\ifnum\appendixno=`K K%
  \else\ifnum\appendixno=`L L%
  \else\ifnum\appendixno=`M M%
  \else\ifnum\appendixno=`N N%
  \else\ifnum\appendixno=`O O%
  \else\ifnum\appendixno=`P P%
  \else\ifnum\appendixno=`Q Q%
  \else\ifnum\appendixno=`R R%
  \else\ifnum\appendixno=`S S%
  \else\ifnum\appendixno=`T T%
  \else\ifnum\appendixno=`U U%
  \else\ifnum\appendixno=`V V%
  \else\ifnum\appendixno=`W W%
  \else\ifnum\appendixno=`X X%
  \else\ifnum\appendixno=`Y Y%
  \else\ifnum\appendixno=`Z Z%

% The \the is necessary, despite appearances, because \appendixletter is
% expanded while writing the .toc file. \char\appendixno is not
% expandable, thus it is written literally, thus all appendixes come out
% with the same letter (or @) in the toc without it.
\else\char\the\appendixno
\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi

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1519
% Each @chapter defines these (using marks) as the number+name, number
% and name of the chapter. Page headings and footings can use
% these. @section does likewise.
\def\thischapter{}% \def\thischapternum{}% \def\thischaptername{}%
\def\thissection{}% \def\thissectionnum{}% \def\thissectionname{}

\newcount\absseclevel % used to calculate proper heading level
\newcount\secbase\secbase=0 % @raisesections/@lowersections modify this count

% @raisesections: treat @section as chapter, @subsection as section, etc.
\def\raisesections{\global\advance\secbase by -1}
\let\up=\raisesections % original BFox name

% @lowersections: treat @chapter as section, @section as subsection, etc.
\def\lowersections{\global\advance\secbase by 1}
\let\down=\lowersections % original BFox name

% we only have subsub.
\chardef\maxseclevel = 3
%
% A numbered section within an unnumbered changes to unnumbered too.
% To achieve this, remember the "biggest" unnum. sec. we are currently in:
\chardef\unnlevel = \maxseclevel
%
% Trace whether the current chapter is an appendix or not:
% \chapheadtype is "N" or "A", unnumbered chapters are ignored.
\def\chapheadtype{N}

% Choose a heading macro
% #1 is heading type
% #2 is heading level
% #3 is text for heading
\def\genhead#1#2#3{%
% Compute the abs. sec. level:
\absseclevel=#2
\advance\absseclevel by \secbase
% Make sure \absseclevel doesn't fall outside the range:
\ifnum \absseclevel < 0
\absseclevel = 0
\else
\ifnum \absseclevel > 3
\absseclevel = 3
\fi
\fi
%
% an interface:
\def\numhead{\genhead N}
\def\apphead{\genhead A}
\def\unnmhead{\genhead U}

% @chapter, @appendix, @unnumbered. Increment top-level counter, reset
% all lower-level sectioning counters to zero.
%
% Also set \chaplevelprefix, which we prepend to @float sequence numbers
% (e.g., figures), q.v. By default (before any chapter), that is empty.
\let\chaplevelprefix = \empty
%
\outer\parseargdef\chapter{\numhead0{#1}} % normally numhead0 calls chapterzzz
\def\chapterzzz#1{% 
% section resetting is \global in case the chapter is in a group, such
% as an @include file.
\global\secno=0 \global\subsecno=0 \global\subsubsecno=0
\global\advance\chapno by 1
%
% Used for \float.
\gdef\chaplevelprefix{\the\chapno.}%
\resetallfloatnos
%
% \putwordChapter can contain complex things in translations.
\toks0=\expandafter{\putwordChapter}%
\message{\the\toks0 space \the\chapno}%
%
% Write the actual heading.
\chapmacro{#1}{Ynumbered}{\the\chapno}%
%
% So @section and the like are numbered underneath this chapter.
\global\let@section = \numberedsec
\global\let\subsection = \numberedsubsec
\global\let\subsubsection = \numberedsubsubsec
}

\outer\parseargdef\appendix{\apphead0{#1}} % normally calls appendixzzz
%
\def\appendixzzz#1{% 
\global\secno=0 \global\subsecno=0 \global\subsubsecno=0
\global\advance\appendixno by 1
\gdef\chaplevelprefix{\appendixletter.}%
\resetallfloatnos
%
% \putwordAppendix can contain complex things in translations.
\toks0=\expandafter{\putwordAppendix}\% \\
\message{\the\toks0 \space \appendixletter}\% \\
\chapmacro{#1}{Yappendix}{\appendixletter}\% \\
\global\let\section = \appendixsec \\
\global\let\subsection = \appendixsubsec \\
\global\let\subsubsection = \appendixsubsubsec \\
} \\
\% normally unnmhead0 calls unnumberedzzz: \\
\outer\parseargdef\unnumbered{\unnmhead0{#1}} \\
\def\unnumberedzzz#1{\% \\
\global\secno=0 \global\subsecno=0 \global\subsubsecno=0 \\
\global{\advance\unnumberedno by 1} \\
\% Since an unnumbered has no number, no prefix for figures. \\
\global\let\chaplevelprefix = \empty \\
\resetallfloatnos \\
\% This used to be simply \message{#1}, but \TeX fully expands the \\
\% argument to \message. Therefore, if #1 contained @-commands, \TeX \\
\% expanded them. For example, in `@unnumbered The @cite{Book}', \TeX \\
\% expanded @cite (which turns out to cause errors because @cite is meant \\
\% to be executed, not expanded). \\
\% \\
\% Anyway, we don't want the fully-expanded definition of @cite to appear \\
\% as a result of the \message, we just want `@cite' itself. We use \\
\% \the<toks register> to achieve this: \TeX expands \the<toks> only once, \\
\% simply yielding the contents of <toks register>. (We also do this for \\
\% the toc entries.) \\
\toks0 = [#1] \% \\
\message{\the\toks0}\% \\
\chapmacro{#1}{Ynothing}{\the\unnumberedno}\% \\
\global\let\section = \unnumberedsec \\
\global\let\subsection = \unnumberedsubsec \\
\global\let\subsubsection = \unnumberedsubsubsec \\
} \\
\% @centerchap is like @unnumbered, but the heading is centered. \\
\outer\parseargdef@centerchap{% \\
\% Well, we could do the following in a group, but that would break \\
\% an assumption that chapmacro is called at the outermost level. \\
\% Thus we are safer this way:--kasal, 24feb04 \\
\let@centerparametersmaybe = \centerparameters \\
\unnmhead0{#1}\%
\def\centerparametersmaybe = \relax

\let\top\unnumbered

% Sections.
%
\outer\parseargdef\numberedsec\{\numhead1\{#1\}\} % normally calls seczzz
\def\seczzz#1{\global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
  \sectionheading\{#1\}\{sec\}\{Ynumbered\}\{the\chapno.the\secno\}%}

% normally calls appendixsectionzzzz:
\outer\parseargdef\appendixsection\{\apphead1\{#1\}\}
\def\appendixsectionzzzz#1{\global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
  \sectionheading\{#1\}\{sec\}\{Yappendix\}\{\appendixletter.the\secno\}%}
\let\appendixsec\appendixsection

% normally calls unnumberedseczzzz:
\outer\parseargdef\unnumberedsec\{\unnmhead1\{#1\}\}
\def\unnumberedseczzzz#1{\global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
  \sectionheading\{#1\}\{sec\}\{Ynothing\}\{the\unnumberedno.the\secno\}%}

% Subsections.
%
% normally calls numberedsubseczzzz:
\outer\parseargdef\numberedsubsec\{\numhead2\{#1\}\}
\def\numberedsubseczzzz#1{\global\subsubsecno=0 \global\advance\subsecno by 1
  \sectionheading\{#1\}\{subsec\}\{Ynumbered\}\{the\chapno.the\secno.the\subsecno\}%}

% normally calls appendixsubseczzzz:
\outer\parseargdef\appendixsubsec\{\apphead2\{#1\}\}
\def\appendixsubseczzzz#1{\global\subsubsecno=0 \global\advance\subsecno by 1
  \sectionheading\{#1\}\{subsec\}\{Yappendix\}\{\appendixletter.the\secno.the\subsecno\}%}

% normally calls unnumberedsubseczzzz:
\outer\parseargdef\unnumberedsubsec\{\unnmhead2\{#1\}\}
\global\let\contentsalignmacro = \chappager
\global\let\pchapsepmacro = \chappager
\global\let\pagealignmacro = \chappager
\global\def\HEADINGSon{\HEADINGSsingle}
\def\CHAPPAGodd{%
\global\let\contentsalignmacro = \chapoddpage
\global\let\pchapsepmacro = \chapoddpage
\global\let\pagealignmacro = \chapoddpage
\global\def\HEADINGSon{\HEADINGSdouble}}
\CHAPPAGon

% Chapter opening.
%
% #1 is the text, #2 is the section type (Ynumbered, Ynothing, Yappendix, Yomitfromtoc), #3 the chapter number.
%
% To test against our argument.
\def\Ynothingkeyword{Ynothing}
\def\Yomitfromtockeyword{Yomitfromtoc}
\def\Yappendixkeyword{Yappendix}
%
\def\chapmacro#1#2#3{%
% Insert the first mark before the heading break (see notes for \domark).
\let\prevchapterdefs = \lastchapterdefs
\let\prevsectiondefs = \lastsectiondefs
\gdef\lastsectiondefs{\gdef\thissectionname{ }\gdef\thissectionnum{ }%
\gdef\thissection{ }}%
%
% #2 is the section type
%\ifx\emptype{#2}%
%\ifx\emptype\Ynothingkeyword
%\gdef\lastchapterdefs{\gdef\thischaptername{#1}\gdef\thischapternum{ }%
%\gdef\thischapter{\thischaptername}}%
%\else\ifx\emptype\Yomitfromtockeyword
%\gdef\lastchapterdefs{\gdef\thischaptername{#1}\gdef\thischapternum{ }%
%\gdef\thischapter{\thischaptername}}%
%\else\ifx\emptype\Yappendixkeyword
%\toks0={#1}%
%\xdef\lastchapterdefs{%
%\gdef\noexpand\thischaptername{\the\toks0}%
%\gdef\noexpand\thischapternum{\appendixletter}%
%\% noexpand\putwordAppendix avoids expanding indigestible commands in some of the translations.
%\gdef\noexpand\thischapter{\noexpand\putwordAppendix{ }}
%\noexpand\thischapternum:
%\noexpand\thischaptername}%
%\}%
\fi %
% Write the toc entry for this chapter.  Must come before the
% \dontoderef, because we include the current node name in the toc
% entry, and \dontoderef resets it to empty.
\writetocentry{\toctype}{#1}{#3} %
%
% For pdflatex, we have to write out the node definition (aka, make
% the pdfdest) after any page break, but before the actual text has
% been typeset.  If the destination for the pdf outline is after the
% text, then jumping from the outline may wind up with the text not
% being visible, for instance under high magnification.
\dontoderef{#2} %
%
% Typeset the actual heading.
\nobreak % Avoid page breaks at the interline glue.
\vbox{\raggedtitlesettings \hangindent=\wd0 \centerparametersmaybe
  \unhbox0 #1\par} %
\nobreak\bigskip % no page break after a chapter title
\nobreak
%
% \centerchap -- centered and unnumbered.
\def\centerparametersmaybe = \relax
\def\centerparameters{%
  \advance\rightskip by 3\rightskip
  \leftskip = \rightskip
  \parfillskip = 0pt
}

% I don't think this chapter style is supported any more, so I'm not
% updating it with the new noderef stuff.  We'll see.  --karl, 11aug03.
%
\def\setchapterstyle #1 {\csname CHAPF#1\endcsname}
%
\def\unnchfopen #1{%
  \chapoddpage
  \vbox{\chapfonts \raggedtitlesettings #1\par} %
  \nobreak\bigskip\nobreak
} %
\def\chfopen #1#2{\chapoddpage {\chapfonts
  \vbox to 3in{\vfil \hbox to\hs\vfil #1 \hbox to\hs\vfil #2 \vfil \vfil}} %
  \par\penalty 5000 \%
} %
\def\centerchfopen #1{%
  \chapoddpage

\else\ifx\empty\Yomitfromtockeyword
  \% Don't redefine \thissection.
\else\ifx\empty\Yappendixkeyword
  \ifx\sectionlevel\seckeyword
    \toks0={#1}\%
    \xdef\lastsectiondefs{%
      \gdef\noexpand\thissectionname{\the\toks0}\%
      \gdef\noexpand\thissectionnum{#4}\%
      \% \noexpand\putwordSection avoids expanding indigestible
      \% commands in some of the translations.
      \gdef\noexpand\thissection{\noexpand\putwordSection{ }
          \noexpand\thissectionnum:
          \noexpand\thissectionname}\%
    }%
  \fi
  \else
    \ifx\sectionlevel\seckeyword
      \toks0={#1}\%
      \xdef\lastsectiondefs{%
        \gdef\noexpand\thissectionname{\the\toks0}\%
        \gdef\noexpand\thissectionnum{#4}\%
        \% \noexpand\putwordSection avoids expanding indigestible
        \% commands in some of the translations.
        \gdef\noexpand\thissection{\noexpand\putwordSection{ }
          \noexpand\thissectionnum:
          \noexpand\thissectionname}\%
    }%
  \fi
  \fi\fi\fi

\% Go into vertical mode. Usually we'll already be there, but we
\% don't want the following \safewhatsit to end up in a preceding paragraph
\% if the document didn't happen to have a blank line.
\par
\% Output the mark. Pass it through \safewhatsit, to take care of
\% the preceding space.
\safewhatsit\domark
\% Insert space above the heading.
\csname #2headingbreak\endcsname
\%
\% Now the second mark, after the heading break. No break points
\% between here and the heading.
\let\prevsectiondefs=\lastsectiondefs
\domark
\%
\% Only insert the space after the number if we have a section number.
We'll almost certainly start a paragraph next, so don't let that
glue accumulate. (Not a breakpoint because it's preceded by a
discardable item.) However, when a paragraph is not started next
((startdefun, cartouche, center, etc.), this needs to be wiped out
or the negative glue will cause weirdly wrong output, typically
obsuring the section heading with something else.
\vskip-\parskip
%
% This is so the last item on the main vertical list is a known
% \penalty > 10000, so \startdefun, etc., can recognize the situation
% and do the needful.
\penalty 10001
}

\message{toc,}
% Table of contents.
\newwrite\tocfile

% Write an entry to the toc file, opening it if necessary.
% Called from @chapter, etc.
%
% Example usage: \writetocentry{sec}{Section Name}{\the\chapno.\the\secno}
% We append the current node name (if any) and page number as additional
% arguments for the \{chap,sec,...\}entry macros which will eventually
% read this. The node name is used in the pdf outlines as the
% destination to jump to.
%
% We open the .toc file for writing here instead of at \setfilename (or
% any other fixed time) so that @contents can be anywhere in the document.
% But if #1 is `omit', then we don't do anything. This is used for the
% table of contents chapter openings themselves.
%
\newif\iftocfileopened
\def\omitkeyword{omit}%
%
\def\writetocentry#1#2#3{%
  \edef\writetoctype{#1}\
  \ifx\writetoctype\omitkeyword \else
    \iftocfileopened\else
      \immediate\openout\tocfile = \jobname.toc
    \fi\tocfileopened\else
      \immediate\openout\tocfile = \jobname.toc
    \fi\tocfileopenedtrue
  \fi
%
  \iflinks
    \atdummies
    \edef\temp{%
      \write\tocfile { @\#1entry {#2} {#3} {\lastnode} {\noexpand\folio} }}%
% \contentsalignmacro in parallel with \pagealignmacro.
% From: Torbjorn Granlund <tege@matematik.su.se>
\contentsalignmacro
\immediate\closeout{tocfile}
%
% Don't need to put `Contents' or `Short Contents' in the headline.
% It is abundantly clear what they are.
\chapmacro{#1}{Yomitfromtoc}{}%
%
\savepageno = \pageno
\begingroup                  % Set up to handle contents files properly.
\raggedbottom              % Worry more about breakpoints than the bottom.
\advance\hsize by -\contentsrightmargin % Don't use the full line length.
%
% Roman numerals for page numbers.
\ifnum \pageno>0 \global\pageno = \lastnegativepageno \fi 
%
% redefined for the two-volume lispref. We always output on
% \jobname.toc even if this is redefined.
%
\def\tocreadfilename{\jobname.toc}

% Normal (long) toc.
%
\def\contents{%
\startcontents{\putwordTOC}{%
\openin 1 \tocreadfilename
\ifeof 1 \else
\readtocfile
\fi
\vfill \eject
\contentsalignmacro % in case @setchapternewpage odd is in effect
\ifeof 1 \else
\pdfmakeoutlines
\fi
\closein 1
\endgroup
\lastnegativepageno = \pageno
\global\pageno = \savepageno
} 

% And just the chapters.
\def\summarycontents{%
\startcontents{\putwordShortTOC}{%
  %
  \def\partentry = \shortpartentry
  \def\numchapentry = \shortchapentry
}
\let\appentry = \shortchapentry
\let\unnchapentry = \shortunnchapentry
% We want a true roman here for the page numbers.
\secfonts
\let\rm = \shortcontrm \let\bf = \shortcontbf
\let\sl = \shortcontsl \let\tt = \shortconttt
\rm
\hyphenpenalty = 10000
\advance\baselineskip by 1pt % Open it up a little.
\def\numsecentry##1##2##3##4{}
\let\appsecentry = \numsecentry
\let\unnsecentry = \numsecentry
\let\numsubsecentry = \numsecentry
\let\appsubsecentry = \numsecentry
\let\unnsubsecentry = \numsecentry
\let\numsubsubsecentry = \numsecentry
\let\appsubsubsecentry = \numsecentry
\let\unnsubsubsecentry = \numsecentry
\openin 1 \tocreadfilename
\ifeof 1 
\else
\readtocfile
\fi
\closein 1
\vfill \eject
\contentsalignmacro % in case @setchapternewpage odd is in effect
\endgroup
\lastnegativepageno = \pageno
\global\pageno = \savepageno
}
\let\shortcontents = \summarycontents

% Typeset the label for a chapter or appendix for the short contents.
% The arg is, e.g., `A' for an appendix, or `3' for a chapter.
%
\def\shortchaplabel#1{%
% This space should be enough, since a single number is .5em, and the
% widest letter (M) is 1em, at least in the Computer Modern fonts.
% But use \hss just in case.
% (This space doesn't include the extra space that gets added after
% the label; that gets put in by \shortchapentry above.)
%
% We'd like to right-justify chapter numbers, but that looks strange
% with appendix letters. And right-justifying numbers and
% left-justifying letters looks strange when there is less than 10
% chapters. Have to read the whole toc once to know how many chapters
% there are before deciding ... \hbox to 1em{#1\hss}%
}
These macros generate individual entries in the table of contents. The first argument is the chapter or section name. The last argument is the page number. The arguments in between are the chapter number, section number, ...

% Parts, in the main contents. Replace the part number, which doesn’t exist, with an empty box. Let’s hope all the numbers have the same width. Also ignore the page number, which is conventionally not printed.
\def\numeralbox{\setbox0=\hbox{8}\hbox to \wd0{\hfil}}
\def\partentry#1#2#3#4{\dochapentry{\numeralbox\labelspace#1}{}{}}%

% Parts, in the short toc.
\def\shortpartentry#1#2#3#4{\penalty-300\vskip.5\baselineskip plus.15\baselineskip minus.1\baselineskip\shortchapentry{{\bf #1}}{\numeralbox}{}{}}%

% Chapters, in the main contents.
\def\numchapentry#1#2#3#4{\dochapentry{#2\labelspace#1}{#4}}%

% Chapters, in the short toc.
% See comments in \dochapentry re vbox and related settings.
\def\shortchapentry#1#2#3#4{\tocentry{\shortchaplabel{#2}\labelspace #1}{\doshortpageno\bgroup#4\egroup}}%

% Appendices, in the main contents.
% Need the word Appendix, and a fixed-size box.
%
\def\appendixbox#1{\setbox0 = \hbox{\putwordAppendix M}}
\def\appentry#1#2#3#4{\dochapentry{\appendixbox{#2}\labelspace#1}{#4}}%

% Unnumbered chapters.
\def\unnchapentry#1#2#3#4{\dochapentry{#1}{#4}}
\def\shortunnchapentry#1#2#3#4{\tocentry{#1}{\doshortpageno\bgroup#4\egroup}}%

% Sections.
\def\numsecentry#1#2#3#4{\dosecentry{#2\labelspace#1}{#4}}
\def\appsecentry=\numsecentry
\def\unnsecentry#1#2#3#4{\dosecentry{#1}{#4}}

% Subsections.
\message{environments,}
% @foo ... @end foo.

% @tex ... @end tex escapes into raw TeX temporarily.
% One exception: @ is still an escape character, so that @end tex works.
% But \ or @@ will get a plain @ character.

\envdef{tex}{%
\setupmarkupstyle{tex}  
\catcode`\=0 \catcode`\{=1 \catcode`\}=2 
\catcode`\$=3 \catcode`\&=4 \catcode`\#=6 
\catcode`\^=7 \catcode`\_8 \catcode`\~9 \active \let~=\tie 
\catcode`\%=14 
\catcode`\+=\other 
\catcode`\+=\other 
\catcode`\|=\other 
\catcode`\|=\other 
\catcode`\|=\other 
\catcode`\|=\other 
\catcode`\|=\other 
\escapechar=`\ 
%
% ` is active in math mode (mathcode=8000). So reset it, and all our 
% other math active characters (just in case), to plain's definitions.
\mathactive  
%
\let\b=\ptexb 
\let\bullet=\ptexbullet 
\let\c=\ptexc 
\let\,=\ptexcomma 
\let\=.\ptexdot 
\let\dots=\ptexdots 
\let\equiv=\ptexequiv 
\let\!=\ptexexclam 
\let\i=\ptexi 
\let\indent=\ptexindent 
\let\noindent=\ptexnoindent 
\let\{=\ptexbrace 
\let\+=\tabalign 

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\let\{}=\ptexbrace
\let\/=\ptexslash
\let\*=\ptexstar
\let\t=\ptext
\expandafter \let\csname top\endcsname=\ptextop \ % outer
\let\frenchspacing=\plainfrenchspacing
%
\def\endldots{\mathinner{\ldots\ldots\ldots\ldots}}%
\def\enddots{\relax\ifmmode\endldots\else$\mathsurround=0pt \endldots\,$\fi}%
\def\@[@]{%}
% There is no need to define \Etex.
%
% Define @lisp ... @end lisp.
% @lisp environment forms a group so it can rebind things,
% including the definition of @end lisp (which normally is erroneous).
%
% Amount to narrow the margins by for @lisp.
\newskip\lispnarrowing \lispnarrowing=0.4in
%
% This is the definition that ^^M gets inside @lisp, @example, and other
% such environments. \null is better than a space, since it doesn’t
% have any width.
\def\lisppar{\null\endgraf}
%
% This space is always present above and below environments.
\newskip\envskipamount \envskipamount = 0pt
%
% Make spacing and below environment symmetrical. We use \parskip here
% to help in doing that, since in @example-like environments \parskip
% is reset to zero; thus the \afterenvbreak inserts no space -- but the
% start of the next paragraph will insert \parskip.
%
\def\aboveenvbreak{{%
% =10000 instead of <10000 because of a special case in \itemzzz and
% \sectionheading, q.v.
\ifnum \lastpenalty=10000 \else
\advance\envskipamount by \parskip
\endgraf
\ifdim\lastskip<\envskipamount
\removelastskip
% it’s not a good place to break if the last penalty was \nobreak
% or better ...
\ifnum\lastpenalty<10000 \penalty-50 \fi
\vskip\envskipamount
\fi
\fi}
}}
\let\afterenvbreak = \aboveenvbreak

% \nonarrowing is a flag.  If "set", @lisp etc don't narrow margins; it will
% also clear it, so that its embedded environments do the narrowing again.
\def\nonarrowing = \relax

% @cartouche ... @end cartouche: draw rectangle w/rounded corners around
% environment contents.
\font\circle=lcircle10
\newdimen\circthick
\newdimen\cartouter\newdimen\cartinner
\newskip\normbskip\newskip\normpskip\newskip\normlskip
\circthick = \fontdimen8\circle
%
def\ctl{\circle\char'013\hskip -6pt} 6pt from pl file: 1/2charwidth
def\ctr{\hskip 6pt\circle\char'010}
def\cbl{\circle\char'012\hskip -6pt}
def\cbr{\hskip 6pt\circle\char'011}
def\carttop{\hbox to \cartouter{\hskip\lskip
\ctl\leaders\hrule height\circthick\hfil\ctr
\hskip\rskip}}
def\cartbot{\hbox to \cartouter{\hskip\lskip
\cbl\leaders\hrule height\circthick\hfil\cbr
\hskip\rskip}}
%
def\cartouche{
\ifhmode\par\fi  % can't be in the midst of a paragraph.
\startsavinginserts
\lskip = \leftskip \rskip = \rightskip
\let\fskip = 0pt\let\rskip = 0pt  % we want these *outside*.
\cartinner = \hsize \advance\cartinner by -\lskip
\advance\cartinner by -\rskip
\cartouter = \hsize
\advance\cartouter by 18.4pt \% allow for 3pt kerns on either
% side, and for 6pt waste from
% each corner char, and rule thickness
\normbskip = \lineskip \normpskip = \parskip \normlskip = \lineskip
\% Flag to tell @lisp, etc., not to narrow margin.
\let\nonarrowing = t\%
%
% If this cartouche directly follows a sectioning command, we need the
% \parskip glue (backspaced over by default) or the cartouche can
% collide with the section heading.
\ifnum\lastpenalty > 10000 \vskip\parskip \penalty\lastpenalty \fi

% This macro is called at the beginning of all the @example variants,
% inside a group.
\newdimen\nonfillparindent
\def\nonfillstart{ %
  \aboveenvbreak
  \hfuzz = 12pt % Don't be fussy
  \sepspaces % Make spaces be word-separators rather than space tokens.
  \let\par = \lisppar % don't ignore blank lines
  \obeylines % each line of input is a line of output
  \parskip = 0pt
  % Turn off paragraph indentation but redefine \indent to emulate
  % the normal \indent.
  \nonfillparindent=\parindent
  \parindent = 0pt
  \let\indent\nonfillindent
  %
  \emergencystretch = 0pt % don't try to avoid overfull boxes
  \if\nonarrowing\relax
    \advance\leftskip by \lispnarrowing
    \exdentamount=\lispnarrowing
  \fi
  \e"
We often define two environments, \texttt{foo} and \texttt{smallfoo}.
Let's do it in one command. \texttt{#1} is the env name, \texttt{#2} the definition.
\begin{verbatim}
def\makedispenvdef#1#2{
  \expandafter\envdef\csname#1\endcsname {\setnormaldispenv #2}
  \expandafter\envdef\csname small#1\endcsname {\setsmalldispenv #2}
  \expandafter\let\csname E#1\endcsname \afterenvbreak
  \expandafter\let\csname Esmall#1\endcsname \afterenvbreak
}
\end{verbatim}

Define two environment synonyms (\texttt{#1} and \texttt{#2}) for an environment.
\begin{verbatim}
def\maketwodispenvdef#1#2#3{
  \makedispenvdef{#1}{#3}
  \makedispenvdef{#2}{#3}
}
\end{verbatim}

\begin{verbatim}
\maketwodispenvdef{lisp}{example}{%
  \nonfillstart
  \tt\setupmarkupstyle{example}%
  \let\kbdfont = \kbdexamplefont % Allow \texttt{kbd} to do something special.
  \gobble % eat return
}
\end{verbatim}

\begin{verbatim}
\maketwodispenvdef{display}{%
  \nonfillstart
  \gobble
}
\end{verbatim}

\begin{verbatim}
\maketwodispenvdef{format}{%
  \let\nonarrowing = t%
  \nonfillstart
  \gobble
}
\end{verbatim}

\begin{verbatim}
\maketwodispenvdef{flushleft}{%
  \nonfillstart
  \let\nonarrowing = t%
  \nonfillstart
\end{verbatim}
\let\Eflushleft = \afterenvbreak
%
% @flushright.
%
\envdef\flushright{%
\let\nonarrowing = t%
\nonfillstart
\advance\leftskip by 0pt plus 1fill\relax
\gobble
}
\let\Eflushright = \afterenvbreak
%
% @raggedright does more-or-less normal line breaking but no right
% justification.  From plain.tex.
\envdef\raggedright{%
\rightskip0pt plus2em \spaceskip.3333em \xspaceskip.5em\relax
}
\let\Eraggedright\par
%
\envdef\raggedleft{%
\parindent=0pt \leftskip0pt plus2em
\spaceskip.3333em \xspaceskip.5em \parfillskip=0pt
\hbadness=10000 % Last line will usually be underfull, so turn off
% badness reporting.
}
\let\Eraggedleft\par
%
\envdef\raggedcenter{%
\parindent=0pt \rightskip0pt plus1em \leftskip0pt plus1em
\spaceskip.3333em \xspaceskip.5em \parfillskip=0pt
\hbadness=10000 % Last line will usually be underfull, so turn off
% badness reporting.
}
\let\Eraggedcenter\par
%
% @quotation does normal linebreaking (hence we can't use \nonfillstart)
% and narrows the margins.  We keep \parskip nonzero in general, since
% we're doing normal filling.  So, when using \aboveenvbreak and
% \afterenvbreak, temporarily make \parskip 0.
%
\makedispenvdef{quotation}{\quotationstart}
%
\def\quotationstart{%
\indentedblockstart % same as \indentedblock, but increase right margin too.
}
% We have retained a nonzero parskip for the environment, since we're
% doing normal filling.
%
\def\Equotation{%
\par
\ifx\quotationauthor\thisisundefined\else
  \% indent a bit.
  \leftline{\kern 2\leftskip \sl ---\quotationauthor}%
\fi
\{\parskip=0pt \afterenvbreak\%
}
\def\Esmallquotation{\Equotation}
%
% If we're given an argument, typeset it in bold with a colon after.
\def\quotationlabel#1{%
  \def\temp{#1}%
  \ifx\temp\empty \else
    \{\bf #1: \%
  \fi
}
%
% @indentedblock is like @quotation, but indents only on the left and
% has no optional argument.
%
\makedispenvdef{indentedblock}{\indentedblockstart}
%
\def\indentedblockstart{%
  \{\parskip=0pt \aboveenvbreak\%
  \parindent=0pt
  \%
  % @cartouche defines \nonarrowing to inhibit narrowing at next level down.
  \ifx\nonarrowing\relax
    \advance\leftskip by \dispnarrowing
  \else
    \let\nonarrowing = \relax
  \fi
  \%
}
%
% Keep a nonzero parskip for the environment, since we're doing normal filling.
%
\def\Eindentedblock{%
% Do the @verb magic: verbatim text is quoted by unique
% delimiter characters. Before first delimiter expect a
% right brace, after last delimiter expect closing brace:
%
% \def\doverb'{'<char>#1<char>'}{#1}
%
% [Knuth] p. 382; only eat outer \}
\begingroup
\catcode`[=1\catcode`]=2\catcode`\{=}\other\catcode`\}\other
\gdef\doverb{#1[\def\next##1#1}\[##1\endgroup\]\next}\next
\endgroup
%
\def\verb{\begingroup\setupverb\doverb}
%
%
% Do the @verbatim magic: define the macro \doverbatim so that
% the (first) argument ends when `@end verbatim' is reached, ie:
%
% \def\doverbatim#1@end verbatim{#1}
%
% For Texinfo it's a lot easier than for LaTeX,
% because texinfo's \verbatim doesn't stop at \texttt{end\{verbatim\}}:
% we need not redefine \, \, \texttt{`} and \texttt{'}.
%
% Inspired by LaTeX's verbatim command set [latext.t]t]
%
\begingroup
\catcode`\ =\active
\obeylines%
% ignore everything up to the first \texttt{\^M}, that's the newline at the end
% of the @verbatim input line itself. Otherwise we get an extra blank
% line in the output.
\xdef\doverbatim#1\^M#2@end verbatim{#2\noexpand\end\verbatim\gobble verbatim}%
% We really want \texttt{\ldots@end verbatim} in the body of the macro, but
% without the active space; thus we have to use \xdef and \gobble.
\endgroup
%
\envdef\verbatim{%
\setupverbatim\doverbatim
}
\let\Everbatim = \afterenvbreak

% @verbatiminclude FILE - insert text of file in verbatim environment.
%
\def\verbatiminclude{\parseargusing\filenamecatcodes\verbatiminclude}
%
\def\verbatiminclude#1{%
{%
\makevalueexpandable
\setupverbatim
\indexnofonts % Allow `@@' and other weird things in file names.
\wlog{texinfo.tex: doing \verbatiminclude of #1^^J}%
\input #1
\afterenvbreak
}%
%
% @copying ... @end copying.
% Save the text away for @insertcopying later.
%
% We save the uninterpreted tokens, rather than creating a box.
% Saving the text in a box would be much easier, but then all the
% typesetting commands (@smallbook, font changes, etc.) have to be done
% beforehand -- and a) we want @copying to be done first in the source
% file; b) letting users define the frontmatter in as flexible order as
% possible is very desirable.
%
\def\copying{\checkenv{}\begingroup\scanargctxt\docopying}
\def\docopying#1@end copying{\endgroup\def\copyingtext{#1}}
%
\def\insertcopying{\begingroup
\parindent=0pt % paragraph indentation looks wrong on title page
\scanexp\copyingtext
\endgroup}
%
\message{defuns,}
% @defun etc.

\newskip\defbodyindent \defbodyindent=.4in
\newskip\defargsindent \defargsindent=50pt
\newskip\deflastargmargin \deflastargmargin=18pt
\newcount\defunpenalty

% Start the processing of @deffn:
\def\startdefun{%
\ifnum\lastpenalty<10000
\medbreak
\defunpenalty=10003 % Will keep this @deffn together with the
% following @def command, see below.
\else
% If there are two @def commands in a row, we'll have a \nobreak,
% which is there to keep the function description together with its
% header. But if there's nothing but headers, we need to allow a
% break somewhere. Check specifically for penalty 10002, inserted
% by \printdefunline, instead of 10000, since the sectioning
% commands also insert a nobreak penalty, and we don't want to allow
% a break between a section heading and a defun.
%
% As a further refinement, we avoid "club" headers by signalling
% with penalty of 10003 after the very first @deffn in the
% sequence (see above), and penalty of 10002 after any following
% @def command.
\ifnum\lastpenalty=10002 \penalty2000 \else \defunpenalty=10002 \fi
%
% Similarly, after a section heading, do not allow a break.
% But do insert the glue.
\medskip  % preceded by discardable penalty, so not a breakpoint
\fi
%
\parindent=0in
\advance\leftskip by \defbodyindent
\exdentamount=\defbodyindent
}

\def\dodefunx#1[ %
  % First, check whether we are in the right environment:
  \checkenv#1%
  %
  % As above, allow line break if we have multiple x headers in a row.
  % It's not a great place, though.
  \ifnum\lastpenalty=10002 \penalty3000 \else \defunpenalty=10002 \fi
%
% And now, it's time to reuse the body of the original defun:
  \expandafter\gobbledefun#1%
  }
\def\gobbledefun#1\startdefun{ }

% \printdefunline \deffnheader[text]
%
\def\printdefunline#1#2[ %
  \begingroup
    % call \deffnheader:
    #1#2 \endheader
    % common ending:
    \interlinepenalty = 10000
    \advance\rightskip by 0pt plus 1fil\relax
    \endgraf
    \nobreak\vskip -\parskip
    \penalty\defunpenalty  % signal to \startdefun and \dodefunx
    % Some of the @defun-type tags do not enable magic parentheses,
% rendering the following check redundant. But we don't optimize.
\checkparencounts
endgroup
}

\def\Edefun{\endgraf\medbreak}

% \makedefun{deffn} creates \deffn, \deffnx and \Edeffn;
% the only thing remaining is to define \deffnheader.
%
\def\makedefun#1{%
\expandafter\let\csname E#1\endcsname = \Edefun
\edef\temp{\noexpand\domakedefun
  \makecsname{#1}\makecsname{#1x}\makecsname{#1header}}\temp
}

% \domakedefun \deffn \deffnx \deffnheader
%
% Define \deffn and \deffnx, without parameters.
% \deffnheader has to be defined explicitly.
%
\def\domakedefun#1#2#3{%
\envdef#1{
  \startdefun
  \doingtypefnfalse    % distinguish typed functions from all else
  \parseargusing\activeparens{\printdefunline#3}
}\endgraf}
\def#2{\dodefunx#1}
\def#3{}

\newif\ifdoingtypefn  % doing typed function?
\newif\iftypedefnnewline  % typeset return type on its own line?

% @deftypefnnewline on|off says whether the return type of typed functions
% are printed on their own line. This affects @deftypen, @deftypenfun,
% @deftypemop, and @deftypemethod.
%
\parseargdef\deftypefnnewline{%
  \def\temp{\ifx\temp\onword
    \expandafter\let\csname SETtxideftypefnnl\endcsname = \empty
  \else
    \expandafter\let\csname SETtxideftypefnnl\endcsname = \relax
  \fi
}
\def\temp{#1}*
  \{\fi}
\def\temp{\relax}
\let\temp\onword
\errhelp = \EMsimple
\errmessage{Unknown \@txideftypennl value `\temp',
must be on|off}%
\fi\fi
%

% Untyped functions:
%
% \@deffn category name args
\makedefun{deffn}{\deffngeneral{}}
%
% \@deffn category class name args
\makedefun{defop}{\#1 \{\defopon{\#1\ \putwordon}}
%
% \defopon {category on}class name args
\def\defopon#1#2 \{\deffngeneral{\putwordon\ \code{#2}}\ [\#1\ \code{#2}] \}
%
% \deffngeneral {subind}category name args
%
\def\deffngeneral#1#2 #3 #4\endheader{%
% Remember that \dosubind{\fn}{\foo}{} is equivalent to \doind{\fn}{\foo}.
% \dosubind{\fn}{\code{#3}}{#1}%
\defname{#2}{}{#3}\magicamp\defunargs{#4\unskip}%
}
%
% Typed functions:
%
% \@deftypefn category type name args
\makedefun{deftypefn}{\deftypefngeneral{}}
%
% \@deftypeop category class type name args
\makedefun{deftypeop}{#1 \{\deftypeopon{#1\ \putwordon}}
%
% \deftypeopon {category on}class type name args
\def\deftypeopon#1#2 \{\deftypefngeneral{\putwordon\ \code{#2}}\ [\#1\ \code{#2}] \}
%
% \deftypefngeneral {subind}category type name args
%
\def\deftypefngeneral#1#2 #3 #4 #5\endheader{%
% \dosubind{\fn}{\code{#4}}{#1}%
% \doind{\fn}{\code{#3}}{#1}%
\defname{#2}{#3}{#4}\magicamp\defunargs{#5\unskip}%
}
%
% Typed variables:
%
% \@deftypevr category type var args
\makedefun{deftypevr}{\deftypecvgeneral{}}
% @deftypecv category class type var args
\makedefun{deftypecv}{#1} \{\deftypecvof{#1}\putwordof\}\}

% \deftypecvof {category of} class type var args
\def\deftypecvof#1#2 \{\deftypecvgeneral{\putwordof\code{#2}}{#1}\code{#2}\}\}

% \deftypecvgeneral {subind} category type var args
% \dosubind{vr}{\code{#4}}{#1}%
\defname{#2}{#3}{#4}\defunargs{#5\unskip}%

% Untyped variables:

% @defvr category var args
\makedefun{defvr}{#1} \{\deftypevrheader{#1}\}\}

% @defcv category class var args
\makedefun{defcv}{#1} \{\defcvof{#1}\putwordof\}\}

% \defcvof {category of} class var args
\def\defcvof#1#2 \{\deftypecvof{#1}#2\}\}

% Types:

% @deftp category name args
\makedefun{deftp}{#1}{#2}{#3}\endheader\%
\doind{tp}{\code{#2}}%
\defname{#1}{}{#2}\defunargs{#3\unskip}%

% Remaining @defun-like shortcuts:
\makedefun{defun}\{\deffnheader{\putwordDeffunc}\}
\makedefun{defmac}\{\deffnheader{\putwordDefmac}\}
\makedefun{defspec}\{\deffnheader{\putwordDefspec}\}
\makedefun{deftypefun}\{\deftypefnheader{\putwordDeffunc}\}
\makedefun{defvar}\{\deffnheader{\putwordDefvar}\}
\makedefun{defopt}\{\deffnheader{\putwordDefopt}\}
\makedefun{deftypevar}\{\deftypefnheader{\putwordDefvar}\}
\makedefun{defmethod}\{\defopon\putwordMethodon\}
\makedefun{deftypemethod}\{\deftypeopon\putwordMethodon\}
\makedefun{defivar}\{\defcvof\putwordInstanceVariableof\}
\makedefun{deftypeivar}\{\deftypecvof\putwordInstanceVariableof\}

% \defname, which formats the name of the @def (not the args).
% #1 is the category, such as "Function".
% #2 is the return type, if any.
% #3 is the function name.
%
% We are followed by (but not passed) the arguments, if any.
%
\def\defname#1#2#3{% 
\par
% Get the values of \leftskip and \rightskip as they were outside the @def...
\advance\leftskip by -\defbodyindent
%
% Determine if we are typesetting the return type of a typed function
% on a line by itself.
\@rettypeownlinefalse
\ifdoingtypefn % doing a typed function specifically?
% then check user option for putting return type on its own line:
\expandafter\ifx\csname SETtxideftypefnnl\endcsname\relax \else
 \@rettypeownlinetrue
\fi
\fi
%
% How we'll format the category name. Putting it in brackets helps
% distinguish it from the body text that may end up on the next line
% just below it.
\def\temp{#1}\
\setbox0=\hbox{\kern\deflastargmargin \ifx\temp\empty\else [\rm\temp]\fi}
%
% Figure out line sizes for the paragraph shape. We'll always have at
% least two.
\tempnum = 2
%
% The first line needs space for \box0; but if \rightskip is nonzero,
% we need only space for the part of \box0 which exceeds it:
\setbox0=\hbox{\kern\deflastargmargin \ifx\temp\empty\else [\rm\temp]\fi}
%
% If doing a return type on its own line, we'll have another line.
\@rettypeownline
 \advance\tempnum by 1
\def\maybebeshapeline{0in \hsize}%
\else
 \def\maybebeshapeline{ }%
\fi
%
% The continuations:
\setdimen2=\hsize \advance\dimen2 by -\defargsindent
%
% The final paragraph shape:
\parshape \tempnum 0in \dimen0 \maybebeshapeline \defargsindent \dimen2
%
% Put the category name at the right margin.
\noindent
\hbox to 0pt{%  
  \hfil\box0 \kern-\hsize  
  \% \hspace has to be shortened this way:  
  \kern\leftskip  
  \% Intentionally do not respect \rightskip, since we need the space.  
}  
%  
% Allow all lines to be underfull without complaint:  
\tolerance=10000 \hbadness=10000  
\exdentamount=\defbodyindent  
{%  
  \% defun fonts. We use typewriter by default (used to be bold) because:  
  \% we're printing identifiers, they should be in tt in principle.  
  \% in languages with many accents, such as Czech or French, it's  
  \% common to leave accents off identifiers. The result looks ok in  
  \% tt, but exceedingly strange in rm.  
  \% we don't want -- and --- to be treated as ligatures.  
  \% this still does not fix the ? and ! ligatures, but so far no  
  \% one has made identifiers using them :).  
  \def \tt  
  \def\temp{#2}% text of the return type  
  \ifx\temp\empty\else  
  \tclose{\temp}% typeset the return type  
  \ifrettypeownline  
  \% put return type on its own line; prohibit line break following:  
  \hfill\vadjust{\nobreak}\break  
  \else  
  \space  % type on same line, so just followed by a space  
  \fi  
  \fi  
  % no return type  
  #3% output function name  
}%  
\rm\enskip{%  
  \% hskip 0.5 em of \tenrm  
  \% arguments will be output next, if any.  
}%  
% Print arguments in slanted roman (not ttsl), inconsistently with using  
% tt for the name. This is because literal text is sometimes needed in  
% the argument list (groff manual), and ttsl and tt are not very  
% distinguishable. Prevent hyphenation at `-' chars.  
%  
\def\defunargs#1{%  
  \% use sl by default (not ttsl),  
  \% tt for the names.
% On the other hand, if an argument has two dashes (for instance), we
% want a way to get ttsl. We used to recommend @var for that, so
% leave the code in, but it's strange for @var to lead to typewriter.
% Nowadays we recommend @code, since the difference between a ttsl hyphen
% and a tt hyphen is pretty tiny. @code also disables ?` !.
\def\var##1{{\setupmarkupstyle{var}\ttslanted{##1}}}%
#1%
% We want ()&[] to print specially on the defun line.
%
\def\activeparens{
% \catcode`\(=\active \catcode`\)=\active
% \catcode`\[=\active \catcode`\]=\active
% \catcode`\&=\active
}
% Make control sequences which act like normal parenthesis chars.
\let\lparen = ( \let\rparen = )
% Be sure that we always have a definition for `(', etc. For example,
% if the fn name has parens in it, \boldbrax will not be in effect yet,
% so TeX would otherwise complain about undefined control sequence.
{
\activeparens
\gdef\boldbrax{\let(=\opnr\let)=\clnr\let[=\lbrb\let]=\rbrb}
\gdef\magicamp{\let&=\amprm}
}
\newcount\parencount
% If we encounter &foo, then turn on ()-hacking afterwards
\newif\ifampseen
\def\ampprm#1 \ampseentrue{\bf\&#1 }
\def\parenfont{%
\ifampseen
% At the first level, print parens in roman,
% otherwise use the default font.
\ifnum \parencount=1 \rm \fi
\else
To do this right we need a feature of e-Tex, \scantokens, which we arrange to emulate with a temporary file in ordinary TeX.
\if\TeXversion\thisisundefined\newwrite\macscribble
\edef\scantokens#1{\toks0={#1}\%}
\immediate\openout\macscribble=\jobname.tmp
\immediate\write\macscribble{the\toks0}\%
\immediate\closeout\macscribble
\input \jobname.tmp
\fi

\def\scanmacro#1{\begingroup
\newlinechar`^^M
\let\eatspaces=eatspaces
% Undo catcode changes of \startcontents and \doprintindex
% When called from @insertcopying or (short)caption, we need active
% backslash to get it printed correctly. Previously, we had
% `\catcode`\=\other instead. We'll see whether a problem appears
% with macro expansion.--kasal, 19aug04
\catcode`\@=0 \catcode`\=\active \escapechar=`\@
%
% ... and for `example:
\spaceisspace
%
% The empty here causes a following catcode 5 newline to be eaten as
% part of reading whitespace after a control sequence. It does not
% eat a catcode 13 newline. There's no good way to handle the two
% cases (untried: maybe e-Tex's \everyeof could help, though plain TeX
% would then have different behavior). See the Macro Details node in
% the manual for the workaround we recommend for macros and
% line-oriented commands.
%
\scantokens{#1\empty}\%
\endgroup}

\def\scanexp#1{\edef\temp{\noexpand\scanmacro{#1}}\temp}
\newcount@paramno % Count of parameters
\newtoks@macname % Macro name
\newif@recursive % Is it recursive?

% List of all defined macros in the form
% \definedummyword\macro1\definedummyword\macro2...
% Currently is also contains all @aliases; the list can be split
% if there is a need.
\def@macrolist{ }

% Add the macro to \macrolist
\def@addtomacrolist#1{\edef@addtomacrolistxxx \csname#1\endcsname }
\def@addtomacrolistxxx#1{\toks0 = \expandafter{\macrolist\definedummyword#1}\xdef\macrolist{\the\toks0} }

% Utility routines.
% This does \let #1 = #2, with \csnames; that is,
% \let \csname#1\endcsname = \csname#2\endcsname
% (except of course we have to play expansion games).
% \def@cslet#1#2{\let \csname#1\expandafter\endcsname \csname#2\endcsname}
\def@cslet#1#2{\expandafter\let \csname#1\expandafter\endcsname \csname#2\endcsname}

% Trim leading and trailing spaces off a string.
% Concepts from aro-bend problem 15 (see CTAN).
\catcode@=11 \gdef\eatspaces #1{\expandafter\trim@{#1} }
\gdef\trim@ #1{\trim@@ @#1 @ #1 @ @@}
\gdef\trim@@ #1@ #2@ #3@@{\trim@@@\empty #2 @}
\def\unbrace#1{#1}
\unbrace{\gdef\trim@@@ #1 } #2@{#1}

% Trim a single trailing ^\M off a string.
\catcode^\M=other \catcode\Q=3 \gdef\eatcr #1{\eatcra #1\Q^\MQ} %
\gdef\eatcra #1\Q^\MQ\eatcrb#1\Q} %
\gdef\eatcrb#1\Q^\MQ\eatcrb#1\Q} %

% Macro bodies are absorbed as an argument in a context where
% all characters are catcode 10, 11 or 12, except \ which is active
% (as in normal texinfo). It is necessary to change the definition of \%
to recognize macro arguments; this is the job of \bodybackslash.
%
% Non-ASCII encodings make 8-bit characters active, so un-activate
% them to avoid their expansion. Must do this non-globally, to
% confine the change to the current group.
%
% It's necessary to have hard CRs when the macro is executed. This is
% done by making ^^M (\endlinechar) catcode 12 when reading the macro
% body, and then making it the \newlinechar in \scanmacro.
%
\def\scanctxt{% used as subroutine
  \catcode`\"=\other
  \catcode`\+=\other
  \catcode`\<=\other
  \catcode`\>=\other
  \catcode`\@=\other
  \catcode`\^=\other
  \catcode`\_=\other
  \catcode`\|=\other
  \catcode`\~=\other
  \ifx\declaredencoding\ascii \else \setnonascii\chars\catcode\non\global\other \fi
}

\def\scanargctxt{% used for copying and captions, not macros.
  \scanctxt
  \catcode`\\=\other
  \catcode`\^^M=\other
}

\def\macrobodyctxt{% used for @macro definitions
  \scanctxt
  \catcode`\{=\other
  \catcode`\}=\other
  \catcode`\^^M=\other
  \use\body\backslash
}

\def\macroargctxt{% used when scanning invocations
  \scanctxt
  \catcode`\\=0
}

% why catcode 0 for \ in the above?  To recognize \ \{ \} as "escapes"
% for the single characters \ \{ \}.  Thus, we end up with the "commands"
% that would be written @\ \{ \ @ in a Texinfo document.
%
% We already have @\ \{ and @.  For @\, we define it here, and only for
% this purpose, to produce a typewriter backslash (so, the @\ that we
% define for \math can’t be used with \macro calls:
%
% We would like to do this for \, too, since that is what makeinfo does.
% But it is not possible, because Texinfo already has a command @, for a
% cedilla accent. Documents must use @comma{} instead.
%
% \anythingelse will almost certainly be an error of some kind.

% \mbodybackslash is the definition of \ in \macro bodies.
% It maps \foo\ => \csname macarg.foo\endcsname => #N
% where N is the macro parameter number.
% We define \csname macarg.\endcsname to be \realbackslash, so
% \ in macro replacement text gets you a backslash.
%
\catcode`@=0 @catcode`@=@active
@gdef@usembodybackslash{@let\=@mbodybackslash}
@gdef@mbodybackslash#1\{@csname macarg.#1@endcsname
}
\expandafter\def\csname macarg.\endcsname{\realbackslash}
\def\margbackslash#1{\char`#1}
\def\macro{\recursivefalse\parsearg\macroxxx}
\def\rmacro{\recursivetrue\parsearg\macroxxx}
\def\macroxxx#1{\getargs{#1}% now \macname is the macname and \argl the arglist
\ifx\argl\empty       % no arguments
\paramno=0\relax
\else
\expandafter\parsemargdef \argl;%
\if\paramno>256\relax
\if\eTeXversion\thisisundefined
\errhelp = \EMsimple
\errmessage{You need eTeX to compile a file with macros with more than 256 arguments}
\fi
\fi
\if1\csname ismacro.\the\macname\endcsname
\message{Warning: redefining \the\macname}%
\else
\expandafter\ifx\csname \the\macname\endcsname \relax
\else \errmessage{Macro name \the\macname \space already defined}\fi
\global\cslet{macsave.\the\macname}{\the\macname}%
\global\expandafter\let\csname ismacro.\the\macname\endcsname=1%
\addtomacrolist{the\macname} \%
\fi
\begingroup \macrobodyctxt
\ifrecursive \expandafter\parsermacbody
\else \expandafter\parsemacbody
\fi}

\parseargdef\unmacro{%
\if1\csname ismacro.\#1\endcsname
\global\cslet{\#1}{macsave.\#1} \%
\global\expandafter\let \csname ismacro.\#1\endcsname=0 \%
% Remove the macro name from \macrolist:
\begingroup
\expandafter\let\csname\#1\endcsname \relax
\let\definedummyword\unmakrodo
\xdef\macrolist{\macrolist} \%
\endgroup
\else
\errmessage{Macro \#1 not defined} \%
\fi
}

% Called by \do from \dounmacro on each macro. The idea is to omit any
% macro definitions that have been changed to \relax.
%
\def\unmakrodo\#1{%
\ifx \#1\relax
% remove this
\else
\noexpand\definedummyword \noexpand\#1%
\fi
}

% This makes use of the obscure feature that if the last token of a
% \string<parameter list> is \#, then the preceding argument is delimited by
% an opening brace, and that opening brace is not consumed.
\def\getargs#1{\getargsxxx#1{}%}
\def\getargsxxx#1#{\getmacname \#1 \relax\getmacargs}
\def\getmacname#1 \#2\relax{\macname={#1}}
\def\getmacargs#1{\def\argl{#1}}

% For macro processing make \@ a letter so that we can make Texinfo private macro names.
\edef\texiatcatcode{\the\catcode`@}
\catcode`@=11\relax

% Parse the optional \string{params} list. Set up \paramno and \paramlist
% so \defmacro knows what to do. Define \macarg.BLAH for each BLAH
% in the params list to some hook where the argument si to be expanded. If
% there are less than 10 arguments that hook is to be replaced by ##N where N
% is the position in that list, that is to say the macro arguments are to be
% defined `a la TeX in the macro body.
%
% That gets used by \bodybackslash (above).
%
% We need to get `macro parameter char #` into several definitions.
% The technique used is stolen from LaTeX: let `\hash` be something
% unexpandable, insert that wherever you need a #, and then redefine
% it to # just before using the token list produced.
%
% The same technique is used to protect `\eatspaces` till just before
% the macro is used.
%
% If there are 10 or more arguments, a different technique is used, where the
% hook remains in the body, and when macro is to be expanded the body is
% processed again to replace the arguments.
%
% In that case, the hook is `\he\toks N-1`, and we simply set \toks N-1 to the
% argument N value and then `\edef` the body (nothing else will expand because of
% the catcode regime underwhich the body was input).
%
% If you compile with TeX (not eTeX), and you have macros with 10 or more
% arguments, you need that no macro has more than 256 arguments, otherwise an
% error is produced.
\def\parsemargdef#1;{% 
\paramno=0\def\paramlist{}% 
\let\hash\relax 
\let\eatspaces\relax 
\parsemargdefxxx#1,,% 
% In case that there are 10 or more arguments we parse again the arguments
% list to set new definitions for the `\macarg.BLAH` macros corresponding to
% each BLAH argument. It was anyhow needed to parse already once this list
% in order to count the arguments, and as macros with at most 9 arguments
% are by far more frequent than macro with 10 or more arguments, defining
% twice the `\macarg.BLAH` macros does not cost too much processing power.
\ifnum\paramno<10\relax\else 
 \paramno0\relax 
 \parsemanymargdef@@#1,%; % 10 or more arguments
 \fi 
} 
\def\parsemargdefxxx#1,{% 
\if#1;\let\next=\relax 
\else \let\next=\parsemargdefxxx 
 \advance\paramno by 1 
 \expandafter\edef\csname macarg\eatspaces{#1}\endsname 
 \{\eatspaces{\hash\the\paramno}\} % 
 \edef\paramlist{\paramlist\hash\the\paramno,} %
\edef\parsemmanyargdef@ @@#1, \%
\if#1; \let\next=\relax
\else
\let\next=\parsemmanyargdef@
\edef\tempb{\eatspaces{#1}}\%
\expandafter\def\expandafter\tempa
\expandafter{\csname macarg.\tempb\endcsname}\%
% Note that we need some extra \noexpand\noexpand, this is because we
% don’t want \the to be expanded in the \parsecma body as it uses an
% \xdef .
\expandafter\edef\tempa
{\noexpand\noexpand\noexpand\the\toks\the\paramno}\%
\advance\paramno by 1\relax
\fi\next}

% These two commands read recursive and nonrecursive macro bodies.
% (They’re different since rec and nonrec macros end differently.)
%
\catcode`\@=11\relax
\let\endargs@\relax
\let\nil@\relax
\def\nilm@{\nil@}\%
\long\def\nillm@{\nil@}\%

% This macro is expanded during the Texpin macro expansion, not during its
% definition. It gets all the arguments values and assigns them to macros
% macarg.ARGNAME
%
% #1 is the macro name
% #2 is the list of argument names
% #3 is the list of argument values
\def\getargvals@#1#2#3{\%
\def\macargdeflist@{}\%
\def\saveparamlist@{#2} % Need to keep a copy for parameter expansion.
\def\paramlist{#2,\nil@}\%
\begingroup
\macroargctxt
\def\argvaluelist{#3,\nil@}\%
\endgroup
\def\macroname{#1}\%
\begingroup
\begin\macro
\makeatletter
\macroargctxt
\def\argvaluelist{#3,\nil@}\%
\expandafter#1#2\}%
}

% Replace arguments by their values in the macro body, and place the result
% in macro \@tempa
\def\macvalstoargs@ %
  % To do this we use the property that token registers that are \the'ed
% within an \edef expand only once. So we are going to place all argument
% values into respective token registers.
%
% First we save the token context, and initialize argument numbering.
\begingroup
  \paramno0\relax
  % Then, for each argument number \#N, we place the corresponding argument
  % value into a new token list register \toks\#N
\expandafter\putargsintokens@\saveparamlist@:,;,%
  % Then we expand the body so that argument are replaced by their
  % values. The trick for values not to be expanded themselves is that they
  % are within tokens and that tokens expand only once in an \edef.
\edef@\tempc{\csname mac.macro\endcsname.body\endcsname}%
  % Now we restore the token stack pointer to free the token list registers
  % which we have used, but we make sure that expanded body is saved after
  % group.
\expandafter\endgroup
\expandafter\def\expandafter\@tempa\expandafter{\@tempc}%
}

\def\macargexpandinbody@ %
  %\%\% Define the named-macro outside of this group and then close this group.
  \expandafter\endgroup
\macargdeflist@
% First the replace in body the macro arguments by their values, the result
% is in \@tempa.
\macvalstoargs@
% Then we point at the \norecurse or \gobble (for recursive) macro value
% with \@tempb.
\expandafter\let\expandafter\@tempb\csname mac.macro .recurse\endcsname
  % Depending on whether it is recursive or not, we need some tailing
  % \egroup.
\ifx\@tempb\gobble
  \let\@tempc\relax
\else
  \let\@tempc\egroup
\fi
% And now we do the real job:
\edef@\tempd{\noexpand\@tempb{\macroname}{\noexpand\scanmacro{\@tempa}}\@tempc}%
\# \@tempd
}\n\def\putargsintokens@#1,{\n\if#1;\let\next\relax\nelse\n\let\next\putargsintokens@\n% First we allocate the new token list register, and give it a temporary\n% alias \@tempb .\ntoksdef\@tempb\the\\paramno\n% Then we place the argument value into that token list register.\nexpanafter\let\expandafter@\tempa\csname macarg.#1\endcsname\nexpanafter\let\tempb\expandafter{\@tempa}\n\advance\paramno by 1\relax\nfi\n\next\n}\n% Save the token stack pointer into macro \#1\nexsave\toksstackpoint@\edef\#1{\the@cclvi}\n% Restore the token stack pointer from number in macro \#1\nexpire\toksstackpoint@\expandafter\mathchardef@cclvi\#1\relax\n% newtoks that can be used non \outer .\n\def\notinonouternewtoks{\alloc@5\toks\toksdef\@cclvi}\n% Tailing missing arguments are set to empty\nsemptyargvalues@{\n\ifx\paramlist\nilm@\n\let\next\macargexpandinbody@\nelse\n\expandafter\setemptyargvaluesparser@\paramlist\endargs@\n\let\next\setemptyargvalues@\nfi\n\next\n}\n\setemptyargvaluesparser@\#1,#2\endargs@{\n\expandafter\def\expandafter@\tempa{\n\expandafter\def\csname macarg.#1\endcsname{}}\npush@\@tempa\macargdeflist@\n\def\paramlist{#2}\n}\n% \#1 is the element target macro\n% \#2 is the list macro\n% \#3,#4\endargs@ is the list value\n\def\pop@#1#2#3,#4\endargs@{\n\def\#1{#3}\n}
% This defines a Texinfo @macro. There are eight cases: recursive and
% nonrecursive macros of zero, one, up to nine, and many arguments.
% Much magic with \expandafter here.
% \edef is used so that macro definitions will survive the file
% they're defined in; @include reads the file inside a group.
%
\longdef\defmacro{%
\let\hash=##% convert placeholders to macro parameter chars
\ifrecursive
% 0
\expandafter\xdef\csname\the\macname\endcsname{%
 \noexpand\scanmacro{\temp}]}
\or % 1
\expandafter\xdef\csname\the\macname\endcsname{%
 \bgroup\noexpand\macroargctxt
 \noexpand\braceorline
 \expandafter\noexpand\csname\the\macname xxx\endcsname}%
\expandafter\xdef\csname\the\macname xxx\endcsname##1{%
 \egroup\noexpand\scanmacro{\temp}]}
\else
\ifnum\paramno<10\relax % at most 9
\expandafter\xdef\csname\the\macname\endcsname{%
 \bgroup\noexpand\macroargctxt
 \noexpand\csname\the\macname xx\endcsname}%
\expandafter\xdef\csname\the\macname xx\endcsname##1{%
 \expandafter\noexpand\csname\the\macname xxx\endcsname##1,}%
\else % 10 or more
\expandafter\xdef\csname\the\macname\endcsname{%
 \noexpand\getargvals@{\the\macname}{\argl}%
}%
\global\expandafter\let\csname mac.\the\macname .body\endcsname\temp
\global\expandafter\let\csname mac.\the\macname .recurse\endcsname\gobble
\fi
\fi
\else
\ifcase\paramno
\else % at most 9
\fi
\ifnum\paramno<10\relax
\fi
\else % 10 or more:
\fi

% \braceorline decides whether the next nonwhitespace character is a % \{. If so it reads up to the closing \}, if not, it reads the whole % line. Whatever was read is then fed to the next control sequence % as an argument (by \pasebrace or \parsearg).
%
\let\uninode=\node
\let\lastnode=\empty

% Write a cross-reference definition for the current node. #1 is the
% type (Ynumbered, Yappendix, Ynothing).
%  
def\donoderef#1{%  
  \ifx\lastnode\empty\else
    \setref{\lastnode}{#1}%
  \fi
  \let\lastnode=\empty
 <%}

% \@anchor{NAME} -- define xref target at arbitrary point.
%  
% \newcount\savesfregister
%  
%  \def\savesf{\relax \ifhmode \savesfregister=\spacefactor\fi}
%  
%  \def\restoresf{\relax \ifhmode \spacefactor=\savesfregister\fi}
%  
%  \def\anchor#1{\savesf \setref{#1}{Ynothing}\restoresf \ignorespaces}

% \setref{NAME}{SNT} defines a cross-reference point NAME (a node or an
% anchor), which consists of three parts:
% 1) NAME-title - the current sectioning name taken from \lastsection,
%       or the anchor name.
% 2) NAME-snt   - section number and type, passed as the SNT arg, or
%       empty for anchors.
% 3) NAME-pg    - the page number.
%  
% This is called from \donoderef, \anchor, and \dofloat.  In the case of
% floats, there is an additional part, which is not written here:
% 4) NAME-lof   - the text as it should appear in a @listoffloats.
%  
% \def\setref#1#2{%
% \pdfmkdest{#1}%
% \iflinks
% {\atdummies % preserve commands, but don't expand them
%   \edef\writexrdef##1##2{\write\auxfile{@xrdef{#1-% #1 of \setref, expanded by the \edef##1}{##2}}% these are parameters of writexrdef
%    }%
% \toks0 = \expandafter{\lastsection}%
% \immediate \writexrdef{title}{\the\toks0 }%
% \immediate \writexrdef{snt}{\csname #2\endcsname}% \Ynumbered etc.
% \safewhatsit{\writexrdef{pg}{\folio}}% will be written later, at \shipout
%   }%
% \fi
% @xrefautomaticsectiontitle on|off says whether @section(ing) names are used % automatically in xrefs, if the third arg is not explicitly specified. % This was provided as a "secret" @set xref-automatic-section-title % variable, now it's official.
% \parseargdef\xrefautomaticsectiontitle{% 
  \def\temp{#1}% 
  \if\temp\onword \expandafter\let\csname SETxref-automatic-section-title\endcsname = \empty \else\fi\temp\offword \expandafter\let\csname SETxref-automatic-section-title\endcsname = \relax \else \errhelp = \EMsimple \errmessage{Unknown @xrefautomaticsectiontitle value `\temp', must be on|off}% \fi\fi
%
%
% @xref, @pxref, and @ref generate cross-references. For \xrefX, #1 is % the node name, #2 the name of the Info cross-reference, #3 the printed % node name, #4 the name of the Info file, #5 the name of the printed % manual. All but the node name can be omitted.
% \def\pxref#1\{\putwordsee{} \xrefX[#1,,,,,,\}]
\def\xref#1\{\putwordSee{} \xrefX[#1,,,,,,\}]
\def\ref#1\{\xrefX[#1,,,,,,\}]
%
\newbox\toprefbox
\newbox\printedrefnamebox
\newbox\infofilenamebox
\newbox\printedmanualbox
%
\def\xrefX[#1,#2,#3,#4,#5,#6]\{\begingroup
\unsepspaces
%
% Get args without leading/trailing spaces.
\def\printedrefname{\ignorespaces #3}\%
\setbox\printedrefnamebox = \hbox{\printedrefname\unskip}\%
%
\def\infofilename{\ignorespaces #4}\%
\setbox\infofilenamebox = \hbox{\infofilename\unskip}\%
%
\def\printedmanual{\ignorespaces #5}\%
% \else\ifdim \wd\infofilenamebox > 0pt  
% Cross-manual reference with only an info filename (arg 4), no  
% printed manual name (arg 5). This is essentially the same as  
% the case above; we output the filename, since we have nothing else.  
\\crossmanualxref{\code{\infofilename\unskip}}%  
%  
% Reference within this manual.  
%  
% _ (for example) has to be the character _ for the purposes of the  
% control sequence corresponding to the node, but it has to expand  
% into the usual \leavevmode...\vrule stuff for purposes of  
% printing. So we \turnoffactive for the \refx-snt, back on for the  
% printing, back off for the \refx-pg.  
\turnoffactive  
% Only output a following space if the -snt ref is nonempty; for  
% @unnumbered and @anchor, it won't be.  
\setbox2 = \hbox{\ignorespaces \refx{#1-snt}{}}%  
\ifdim \wd2 > 0pt \refx{#1-snt}\space\fi  
\xrefprintnodename\printedrefname  
% But we always want a comma and a space:  
\space  
% output the `page 3'.  
\turnoffactive \putwordpage\tie\refx{#1-pg}{\space}}%  
\fi  
\endlink  
\endgroup}  

% Output a cross-manual xref to #1. Used just above (twice).  
%  
% Only include the text "Section "foo" in" if the foo is neither  
% missing or Top. Thus, @xref{,...foo,The Foo Manual} outputs simply  
% "see The Foo Manual", the idea being to refer to the whole manual.  
%  
% But, this being TeX, we can't easily compare our node name against the  
% string "Top" while ignoring the possible spaces before and after in  
% the input. By adding the arbitrary 7sp below, we make it much less  
% likely that a real node name would have the same width as "Top" (e.g.,  
% in a monospaced font). Hopefully it will never happen in practice.  
%  
% For the same basic reason, we retypeset the "Top" at every
% reference, since the current font is indeterminate.
%
\def\crossmanualxref#1{% 
\setbox\toprefbox = \hbox{Top\kern7sp}% 
\setbox2 = \hbox{\ignorespaces \printedrefname \unskip \kern7sp}% 
\ifdim \wd2 > 7sp % nonempty? 
\ifdim \wd2 = \wd\toprefbox \else % same as Top? 
 \putwordSection{} ``\printedrefname'' \putwordin{} \space 
\fi 
\fi 
#1% 
}
%
% This macro is called from \xrefX for the `[nodename]' part of xref
% output. It's a separate macro only so it can be changed more easily,
% since square brackets don't work well in some documents. Particularly
% one that Bob is working on :). 
%
\def\xrefprintnodename#1{[#1]}
%
% Things referred to by \setref.
%
\def\Ynothing{} 
\def\Yomitfromtoc{} 
\def\Ynumbered{% 
\ifnum\secno=0 
 \putwordChapter@tie \the\chapno 
\else \ifnum\subsecno=0 
 \putwordSection@tie \the\chapno.\the\secno 
\else \ifnum\subsubsecno=0 
 \putwordSection@tie \the\chapno.\the\secno.\the\subsecno 
\else 
 \putwordSection@tie \the\chapno.\the\secno.\the\subsecno.\the\subsubsecno 
\fi\fi\fi 
\fi\fi
}
\def\Yappendix{% 
\ifnum\secno=0 
 \putwordAppendix@tie @char\the\appendixno{}% 
\else \ifnum\subsecno=0 
 \putwordSection@tie @char\the\appendixno.\the\secno 
\else \ifnum\subsubsecno=0 
 \putwordSection@tie @char\the\appendixno.\the\secno.\the\subsecno 
\else 
 \putwordSection@tie @char\the\appendixno.\the\secno.\the\subsecno.\the\subsubsecno 
\fi\fi\fi 
\fi\fi
}
\% Define \refx{NAME}{SUFFIX} to reference a cross-reference string named NAME.
\% If its value is nonempty, SUFFIX is output afterward.
\%
\def\refx#1#2{\%
\%}
\indexnofonts
\otherbackslash
\expandafter\global\expandafter\let\expandafter\thisrefX
\csname XR#1\endcsname
}
\if\thisrefX\relax
\% If not defined, say something at least.
\angleleft un\-de\-fined\angleright
\iflinks
\ifhavexrefs
\{\toks0 = {#1}% avoid expansion of possibly-complex value
\message{\linenumber Undefined cross reference `\the\toks0'.}\}%
\else
\ifwarnedxrefs\else
\global\warnedxrefstrue
\message{Cross reference values unknown; you must run TeX again.}%
\fi
\fi
\fi
\else
\% It's defined, so just use it.
\thisrefX
\fi
\%
#2% Output the suffix in any case.
}

\% This is the macro invoked by entries in the aux file. Usually it's
\% just a \def (we prepend XR to the control sequence name to avoid
\% collisions). But if this is a float type, we have more work to do.
\%
\def\xrdef#1#2{\%
\% The node name might contain 8-bit characters, which in our current
\% implementation are changed to commands like \@'e. Don't let these
\% mess up the control sequence name.
\indexnofonts
\turnoffactive
\xdef\safexrefname\{#1\}%
\%
\%
\expandafter\gdef\csname XR\safexrefname\endcsname\{#2\}% remember this xref
\%
\%
\expandafter\uif\float\csname XR\safexrefname\endcsname
% it was a float, and we have the (safe) float type in \iffloattype.
\expandafter\let\expandafter\floatlist\csname floatlist\iffloattype\endcsname
%
% Is this the first time we've seen this float type?
\expandafter\ifx\floatlist\relax
\toks0 = \{\do% yes, so just \do
\else
% had it before, so preserve previous elements in list.
\toks0 = \expandafter{\floatlist\do}%
\fi
%
% Remember this xref in the control sequence \floatlistFLOATTYPE,
% for later use in \listoffloats.
\expandafter\xdef\csname floatlist\iffloattype\endcsname\{\the\toks0
{\safexrefname}\}
\fi
%
}% Read the last existing aux file, if any. No error if none exists.
%
\def\tryauxfile{%
\openin 1 \jobname.aux
\ifeof 1 \else
\readdatafile{aux}%
\global\havexrefstrue
\fi
\closein 1
}

\def\setupdatafile{%
\catcode`\^^@=\other
\catcode`\^^A=\other
\catcode`\^^B=\other
\catcode`\^^C=\other
\catcode`\^^D=\other
\catcode`\^^E=\other
\catcode`\^^F=\other
\catcode`\^^G=\other
\catcode`\^^H=\other
\catcode`\^^K=\other
\catcode`\^^L=\other
\catcode`\^^N=\other
\catcode`\^^P=\other
\catcode`\^^Q=\other
\catcode`\^^R=\other
\catcode`\^^S=\other
\catcode`\^^T=\other
\catcode`\^^U=\other
\catcode`\^^V=\other
\catcode`\^^W=\other
\catcode`\^^X=\other
\catcode`\^^Z=\other
\catcode`\^^[=\other
\catcode`\^^\=\other
\catcode`\^^]=\other
\catcode`\^^^=\other
\catcode`\^^_=\other

% It was suggested to set the catcode of ^ to 7, which would allow ^^e4 etc.
% in xref tags, i.e., node names. But since ^^e4 notation isn't
% supported in the main text, it doesn't seem desirable. Furthermore,
% that is not enough: for node names that actually contain a ^
% character, we would end up writing a line like this: 'xrdef {'hat
% b-title} {'hat b} and \xrdef does a \csname...\endcsname on the first
% argument, and 'hat is not an expandable control sequence. It could
% all be worked out, but why? Either we support ^^ or we don't.
%
% The other change necessary for this was to define \auxhat:
% \def\auxhat{\def^{'hat}} % extra space so ok if followed by letter
% and then to call \auxhat in \setq.
%
\catcode`^=\other
%
% Special characters. Should be turned off anyway, but...
\catcode`\-=\other
\catcode`\[=\other
\catcode`\]=\other
\catcode`\"=\other
\catcode`\_`=\other
\catcode`\|=\other
\catcode`\<|=\other
\catcode`\>=\other
\catcode`\$=\other
\catcode`\#=\other
\catcode`\&=\other
\catcode`\%=\other
\catcode`\+=\other % avoid \+ for paranoia even though we've turned it off
%
% This is to support \ in node names and titles, since the \%
% characters end up in a \csname. It's easier than
% leaving it active and making its active definition an actual \%
% character. What I don't understand is why it works in the *value*
% of the xrdef. Seems like it should be a catcode12 \, and that
% should not typeset properly. But it works, so I'm moving on for
% now. --karl, 15jan04.
\catcode`\\=\other
\% Make the characters 128-255 be printing characters.
{%
\count1=128
\def\loop{%
  \catcode\count1=\other
  \advance\count1 by 1
  \ifnum\count1<256 \loop \fi
}%
}%
%
%
% @ is our escape character in .aux files, and we need braces.
\catcode\{=1
\catcode\}=2
\catcode\@=0
%
\def\readdatafile#1{%
\begingroup
\setupdatafile
\input\jobname.#1
\endgroup
}%
\message{insertions,}
% including footnotes.
\newcount \footnoteno
%
% The trailing space in the following definition for supereject is
t% vital for proper filling; pages come out unaligned when you do a
t% pagealignmacro call if that space before the closing brace is
t% removed. (Generally, numeric constants should always be followed by a
t% space to prevent strange expansion errors.)
\def\supereject{\par\penalty -20000\footnoteno =0 }
%
% \@footnotestyle is meaningful for Info output only.
\let\footnotestyle=\comment
%
{\catcode \@=11
%
% Auto-number footnotes. Otherwise like plain.
\edef\footnote{%
  \let\indent=\ptexindent
  \let\noindent=\ptexnoindent
  \global\advance\footnoteno by \@ne
  \edef\thisfootno{\^{$\vphantom{\the\footnoteno}$}}%  
}
% In case the footnote comes at the end of a sentence, preserve the
% extra spacing after we do the footnote number.
\let\@sf\empty
\ifhmode\edef\@sf{\spacefactor{\the\spacefactor}\ptexslash}\fi
%
% Remove inadvertent blank space before typesetting the footnote number.
\unskip
\thisfootno\@sf
\dofootnote
%
% Don’t bother with the trickery in plain.tex to not require the
% footnote text as a parameter. Our footnotes don’t need to be so general.
%
% Oh yes, they do; otherwise, @ifset (and anything else that uses
% \parseargline) fails inside footnotes because the tokens are fixed when
% the footnote is read. --karl, 16nov'96.
%
\gdef\dofootnote{%
\insert\footins\bgroup
% We want to typeset this text as a normal paragraph, even if the
% footnote reference occurs in (for example) a display environment.
% So reset some parameters.
\hsize=\pagewidth
\interlinepenalty\interfootnotelinepenalty
\splittopskip\ht\strutbox % top baseline for broken footnotes
\splitmaxdepth\dp\strutbox
\floatingpenalty\@MM
\leftskip\z@skip
\rightskip\z@skip
\spaceskip\z@skip
\xspaceskip\z@skip
\parindent\defaultparindent
%
\smallfonts \rm
%
% Because we use hanging indentation in footnotes, a @noindent appears
% to exdent this text, so make it be a no-op. makeinfo does not use
% hanging indentation so @noindent can still be needed within footnote
% text after an @example or the like (not that this is good style).
\let\noindent = \relax
%
% Hang the footnote text off the number. Use \everypar in case the
% footnote extends for more than one paragraph.
\everypar = \{\hang\} %
\textindent\thisfootno
%
% Don’t crash into the line above the footnote text. Since this
% expands into a box, it must come within the paragraph, lest it
% provide a place where TeX can split the footnote.
\footstrut
%
% Invoke rest of plain TeX footnote routine.
\futurelet\next\fo\t
}
}%end \catcode `\@=11

% In case a @footnote appears in a vbox, save the footnote text and create
% the real \insert just after the vbox finished. Otherwise, the insertion
% would be lost.
% Similarly, if a @footnote appears inside an alignment, save the footnote
% text to a box and make the \insert when a row of the table is finished.
% And the same can be done for other insert classes. --kasal, 16nov03.

% Replace the \insert primitive by a cheating macro.
% Deeper inside, just make sure that the saved insertions are not spilled
% out prematurely.
%
\def\startsavinginserts{%
  \ifx \insert\ptexinsert
    \let\insert\saveinsert
  \else
    \let\checkinserts\relax
  \fi
}

% This \insert replacement works for both \insert\foo and
% \insert\bgroup foo\egroup, but it doesn't work for \insert27\foo.
%
\def\saveinsert#1{%
  \edef\next{\noexpand\savetobox \makeSAVEname#1}%
  \afterassignment\next
  % swallow the left brace
  \let\temp =
}
\def\makeSAVEname#1{\makecsname{SAVE\expandafter\gobble\string#1}}
\def\savetobox#1{\global\setbox#1 = \vbox\bgroup \unvbox#1}
\def\checksaveins#1{\ifvoid#1\else \placesaveins#1\fi}
\def\placesaveins#1{\ifvoid#1\else \placesaveins#1\fi}

\def\ptexinsert \csnameexpandafter\gobble\string#1\endcsname
  \{\box#1\%
}

% eat @SAVE -- beware, all of them have catcode \other:
\def\dospecials{\do S \do A \do V \do E} \uncatcodespecials % ;-) 
\gdef\gobblesave @SAVE{ }

% initialization:
\def\newsaveins #1[%
  \edef\next{\noexpand\newsaveinsX \makeSAVEname#1}%
  \next
}\def\newsaveinsX #1[%
  \csname newbox\endcsname #1%
  \expandafter\def\expandafter\checkinserts\expandafter{
    \checkinserts \expandafter\checksaveins #1}%
}\% initialize:
\let\checkinserts\empty
\newsaveins\footins
\newsaveins\margin

% @image. We use the macros from epsf.tex to support this.
% If epsf.tex is not installed and @image is used, we complain.
%
% Check for and read epsf.tex up front. If we read it only at @image
time, we might be inside a group, and then its definitions would get
% undone and the next image would fail.
\openin 1 = epsf.tex
\ifeof 1 \else
  \def\epsfannounce{\toks0 = }%
  \input epsf.tex
\fi
\closein 1
%
% We will only complain once about lack of epsf.tex.
\newif\ifwarnednoepsf
\newhelp\noepsfhelp{epsf.tex must be installed for images to
  work. It is also included in the Texinfo distribution, or you can get
  it from ftp://tug.org/tex/epsf.tex.}
%
\def\image#1{%
  \ifx\epsfbox\thisisundefined
    \ifwarnednoepsf \else
      \errhelp = \noepsfhelp
      \errmessage{epsf.tex not found, images will be ignored}%
  \fi
  \else
    \edef\@theimage{\image@box#1}
\global\warnednoepsftrue
\fi
\else
\imagexxx #1,,,,,\finish
\fi
%
% Arguments to @image:
% #1 is (mandatory) image filename; we tack on .eps extension.
% #2 is (optional) width, #3 is (optional) height.
% #4 is (ignored optional) html alt text.
% #5 is (ignored optional) extension.
% #6 is just the usual extra ignored arg for parsing stuff.
\newif\ifimagevmode
\def\imagexxx#1,#2,#3,#4,#5,#6\finish{\begingroup
\catcode`^^M = 5     % in case we're inside an example
\normalturnoffactive  % allow _ et al. in names
% If the image is by itself, center it.
\ifvmode
\imagevmodetrue
\else \ifx\centersub\centerV
% for @center @image, we need a vbox so we can have our vertical space
\imagevmodetrue
\vbox\bgroup % vbox has better behavior than vtop herev
\fi\fi
%
\ifimagevmode
\nobreak\medskip
% Usually we'll have text after the image which will insert
% \parskip glue, so insert it here too to equalize the space
% above and below.
\nobreak\vskip\parskip
\nobreak\vspace{.3em}
\nobreak
\fi
%
% Leave vertical mode so that indentation from an enclosing
% environment such as @quotation is respected.
% However, if we're at the top level, we don't want the
% normal paragraph indentation.
% On the other hand, if we are in the case of @center @image, we don't
% want to start a paragraph, which will create a hsize-width box and
% eradicate the centering.
\if\centersub\centerV\else \noindent \fi
%
% Output the image.
\ifpdf
\dopdfimage{#1}{#2}{#3}\
\else
\epsfbox itself resets $\text{\epsffrac}$ size at each figure.
\setbox0 = \hbox{\ignorespaces #2}\ifdim\wd0 > 0pt $\text{\epsfxsize}=\#2\relax \fi
\setbox0 = \hbox{\ignorespaces #3}\ifdim\wd0 > 0pt $\text{\epsfysize}=\#3\relax \fi
\epsfbox{#1.eps} %

% \ifimagevmode
% \medskip \% space after a standalone image
\fi
% \ifx\centersub\centerV \egroup \fi
\endgroup}

% @float FLOATTYPE,LABEL,LOC ... @end float for displayed figures, tables, % etc. We don't actually implement floating yet, we always include the % float "here". But it seemed the best name for the future.
% \envparseargdef\float{\eatcommaspace\eatcommaspace\dofloat#1, , ,\finish}
% There may be a space before second and/or third parameter; delete it.
\def\eatcommaspace#1, {#1,}
% #1 is the optional FLOATTYPE, the text label for this float, typically % "Figure", "Table", "Example", etc. Can't contain commas. If omitted, % this float will not be numbered and cannot be referred to.
% % #2 is the optional xref label. Also must be present for the float to % be referable.
% % #3 is the optional positioning argument; for now, it is ignored. It % will somehow specify the positions allowed to float to (here, top, bottom).
% % We keep a separate counter for each FLOATTYPE, which we reset at each % chapter-level command.
\let\resetallfloatnos=\empty
%
\def\dofloat#1,#2,#3,#4\finish{%
\let\thiscaption=\empty
\let\thisshortcaption=\empty
%
% don't lose footnotes inside @float.
%
% BEWARE: when the floats start float, we have to issue warning whenever an % insert appears inside a float which could possibly float. --kasal, 26may04
%
\startsavinginserts
%
% We can't be used inside a paragraph.
\def\Efloat{%
  \let\floatident = \empty
  %
  \ifx\floattype\empty \else \def\floatident{\floattype}\fi
  %
  \ifx\floatlabel\empty \else % if also had float type, need tie first.
    \appendtomacro\floatident{\tie}\% \fi
  % the number.
  \appendtomacro\floatident{\chaplevelprefix\the\floatno}\% \fi
  %
  % Start the printed caption with what we've constructed in
  % \floatident, but keep it separate; we need \floatident again.
  \let\captionline = \floatident
  %
  \ifx\thiscaption\empty \else % had ident, so need a colon between
    \appendtomacro\captionline{: }\% \fi
  %
  % caption text.
  \appendtomacro\captionline{\scanexp\thiscaption}\%
  \fi
  %
  % If we have anything to print, print it, with space before.
  % Eventually this needs to become an \insert.
  \ifx\captionline\empty \else \vskip.5\parskip \captionline \% \fi
  %
  % Space below caption.
  \vskip\parskip \captionline
  %
  % If have an xref label, write the list of floats info. Do this
  % after the caption, to avoid chance of it being a breakpoint.
\texttt{\textbackslash{}noexpand\textbackslash{}gtemp{ % \\
\texttt{\textbackslash{}fx\textbackslash{}thisshortcaption\textbackslash{}empty} \\
\texttt{\textbackslash{}thiscaption} \\
\texttt{\textbackslash{}else} \\
\texttt{\textbackslash{}thisshortcaption} \\
\texttt{\textbackslash{}fi} \\
\texttt{\textbackslash{}fi}} \\
\texttt{\textbackslash{}immediate\textbackslash{}write\textbackslash{}auxfile[@\texttt{\textbackslash{}xrdef\textbackslash{}floatlabel-lof}]{\texttt{\textbackslash{}floatident \texttt{\textbackslash{}fx\textbackslash{}gtemp\textbackslash{}empty} \texttt{\textbackslash{}else} : \texttt{\textbackslash{}gtemp \textbackslash{}fi}}]}% \\
% \texttt{\textbackslash{}end of \texttt{\textbackslash{}top}} \\
\texttt{\textbackslash{}checkinserts} \\
\texttt{}}

\% Append the tokens \#2 to the definition of macro \#1, not expanding either. \\
\texttt{\textbackslash{}def\texttt{\textbackslash{}appendtomacro}\#1\#2{ % \\
\texttt{\textbackslash{}expandafter}\texttt{\textbackslash{}def\\textbackslash{}expandafter}\#1\texttt{\textbackslash{}expandafter}\#1\#2}}% \\
\texttt{}}

\% \texttt{@caption, \texttt{@shortcaption}} \\
\texttt{\textbackslash{}defcaption{\texttt{\textbackslash{}docaption\textbackslash{}thiscaption}}} \\
\texttt{\textbackslash{}def\texttt{\textbackslash{}shortcaption}{\texttt{\textbackslash{}docaption\textbackslash{}thisshortcaption}}} \\
\texttt{\textbackslash{}def\texttt{\textbackslash{}docaption}{\texttt{\textbackslash{}checkenv\textbackslash{}float \textbackslash{}group\textbackslash{}scanargctxt\textbackslash{}defcaption}}} \\
\texttt{\textbackslash{}def\texttt{\textbackslash{}defcaption\#1\#2}{\texttt{\textbackslash{}egroup \textbackslash{}def\#1 \#2}}} \\

\% The parameter is the control sequence identifying the counter we are
% going to use. Create it if it doesn't exist and assign it to \floatno.
def\getfloatno#1{%
    \ifx#1\relax%
        % Haven't seen this figure type before.
        \csname newcount\endcsname #1%
    %
        % Remember to reset this floatno at the next chap.
    \expandafter\gdef\expandafter\resetallfloatnos
        \expandafter{\resetallfloatnos #1=0 }%
    %
    \fi
    \let\floatno#1%
} 

% \setref calls this to get the XREFLABEL-snt value. We want an @xref
% to the FLOATLABEL to expand to "Figure 3.1". We call \setref when we
% first read the @float command.
% 
\def\Yfloat{\floattype@tie \chaplevelprefix\the\floatno}%

% Magic string used for the XREFLABEL-title value, so \xrefX can
% distinguish floats from other xref types.
def\floatmagic{!!float!!}

% #1 is the control sequence we are passed; we expand into a conditional
% which is true if #1 represents a float ref. That is, the magic
% \lastsection value which we \setref above.
% 
\def\iffloat#1{\expandafter\doiffloat#1==\finish}

% #1 is (maybe) the \floatmagic string. If so, #2 will be the
% (safe) float type for this float. We set \iffloattype to #2.
% 
\def\doiffloat#1=#2=#3\finish{%
    \def\temp{#1}%
    \def\iffloattype{#2}%
    \ifx\temp\floatmagic
}

% @listoffloats FLOATTYPE - print a list of floats like a table of contents.
%
\parseargdef\listoffloats{%
    \def\floattype{#1}% floattype
    {%
        % the floattype might have accents or other special characters,
        % but we need to use it in a control sequence name.
        \indexnofonts
        \turnoffactive
        \def\safefloattype{\floattype}%
%

\% % This is called on each entry in a list of floats. We're passed the
% xref label, in the form LABEL-title, which is how we save it in the
% aux file. We strip off the -title and look up \XRLABEL-lof, which
% has the text we're supposed to typeset here.
%
% Figures without xref labels will not be included in the list (since
% they won't appear in the aux file).
%
\def\listoffloatsdo#1\finish{
  \listoffloatsdoentry#1\finish}
\def\listoffloatsdoentry#1-title\finish{{%
  Can't fully expand XR#1-lof because it can contain anything. Just
  pass the control sequence. On the other hand, XR#1-pg is just the
  page number, and we want to fully expand that so we can get a link
  \% in pdf output.
  \toksA = \expandafter{\csname XR#1-lof\endcsname}\%
  \%
  \% use the same \entry macro we use to generate the TOC and index.
  \edef\writeentry{\noexpand\entry{\the\toksA}{\csname XR#1-pg\endcsname}}\%
  \writeentry
}}

\message{localization,}

% For single-language documents, \documentlanguage is usually given very
% early, just after \documentencoding. Single argument is the language
% (de) or locale (de_DE) abbreviation.
%
{\catcode`\_ = \active
  \globaldefs=1
\parseargdef\documentlanguage{\begingroup
\let_=\normalunderscore % normal _ character for filenames
\tex % read txi-???.tex file in plain TeX.
% Read the file by the name they passed if it exists.
\openin 1 txi-#1.tex
\ifeof 1
\documentlanguagetrywithoutunderscore{#1}\finish %
\else
\globaldefs = 1 % everything in the txi-LL files needs to persist
\input txi-#1.tex
\fi
\closein 1
\endgroup % end raw TeX
\endgroup}
%
% If they passed de_DE, and txi-de_DE.tex doesn't exist,
% try txi-de.tex.
%
\gdef\documentlanguagetrywithoutunderscore#1_#2\finish{%
\openin 1 txi-#1.tex
\ifeof 1
\errhelp = \nolanghelp
\errmessage{Cannot read language file txi-#1.tex}%
\else
\globaldefs = 1 % everything in the txi-LL files needs to persist
\input txi-#1.tex
\fi
\closein 1
}
}% end of special _ catcode
%
\newhelp\nolanghelp{The given language definition file cannot be found or
is empty. Maybe you need to install it? Putting it in the current
directory should work if nowhere else does.}
%
% This macro is called from txi-???.tex files; the first argument is the
% language name to set (without the "\lang@" prefix), the second and
% third args are \{left,right\}hyphenmin.
%
% The language names to pass are determined when the format is built.
% See the etex.log file created at that time, e.g.,
% /usr/local/texlive/2008/texmf-var/web2c/pdftex/etex.log.
%
% With TeX Live 2008, etex now includes hyphenation patterns for all
% available languages. This means we can support hyphenation in
% Texinfo, at least to some extent. (This still doesn't solve the
% accented characters problem.)
%
\catcode`@=11
\def\txisetlanguage#1#2#3{%
% do not set the language if the name is undefined in the current TeX.
\expandafter\ifx\csname lang@#1\endcsname \relax
  \message{no patterns for #1}%
\else
  \global\language = \csname lang@#1\endcsname
\fi
% but there is no harm in adjusting the hyphenmin values regardless.
\global\lefthyphenmin = #2\relax
\global\righthyphenmin = #3\relax
}

% Helpers for encodings.
% Set the catcode of characters 128 through 255 to the specified number.
%
\def\setnonasciicharscatcode#1{%
\count255=128
\loop\ifnum\count255<256
  \global\catcode\count255=#1\relax
  \advance\count255 by 1
\repeat
}

\def\setnonasciicharscatcodenonglobal#1{%
\count255=128
\loop\ifnum\count255<256
  \catcode\count255=#1\relax
  \advance\count255 by 1
\repeat
}

% @documentencoding sets the definition of non-ASCII characters
% according to the specified encoding.
%
\parseargdef\documentencoding{%
% Encoding being declared for the document.
\def\declaredencoding{\csname #1.enc\endcsname}%
%
% Supported encodings: names converted to tokens in order to be able
% to compare them with \ifx.
\def\ascii{\csname US-ASCII.enc\endcsname}%
\def\latnine{\csname ISO-8859-15.enc\endcsname}%
\def\latone{\csname ISO-8859-1.enc\endcsname}%
\def\lattwo{\csname ISO-8859-2.enc\endcsname}%
\def\utfeight{\csname UTF-8.enc\endcsname}%
%\ifx \declaredencoding \ascii
\asciiichardefs
%
\else \ifx \declaredencoding \lattwo
 \setnonasciicharscatcode\active
 \lattwochardefs
%
\else \ifx \declaredencoding \latone
 \setnonasciicharscatcode\active
 \latonechardefs
%
\else \ifx \declaredencoding \latnine
 \setnonasciicharscatcode\active
 \latninechardefs
%
\else \ifx \declaredencoding \utfeight
 \setnonasciicharscatcode\active
 \utfeightchardefs
%
\else
 \message{Unknown document encoding #1, ignoring.}%
%
\fi % utfeight
\fi % latnine
\fi % latone
\fi % lattwo
\fi % ascii
\}

% A message to be logged when using a character that isn't available
% the default font encoding (OT1).
%
\def\missingcharmsg#1{\message{Character missing in OT1 encoding: #1.}}

% Take account of \c (plain) vs. \, (Texinfo) difference.
\def\cedilla#1{\ifx\c\ptexc\c{#1}\else\,{#1}\fi}

% First, make active non-ASCII characters in order for them to be
% correctly categorized when TeX reads the replacement text of
% macros containing the character definitions.
\setnonasciicharscatcode\active
%
% Latin1 (ISO-8859-1) character definitions.
\def\latonechardefs{%
 \gdef^^a0{\tie}
 \gdef^^a1{\exclamdown}
 \gdef^^a2{\missingcharmsg{CENT SIGN}}
 \gdef^^a3{\pounds}
 \gdef^^a4{\missingcharmsg{CURRENCY SIGN}}
}
% UTF-8 character definitions.
%
% This code to support UTF-8 is based on LaTeX's utf8.def, with some
% changes for Texinfo conventions. It is included here under the GPL by
% permission from Frank Mittelbach and the LaTeX team.
%
\newcount\countUTFx
\newcount\countUTFy
\newcount\countUTFz

\gdef\UTFviiiTwoOctets#1#2{\expandafter\UTFviiiDefined\csname u8:#1\string #2\endcsname}
%
\gdef\UTFviiiThreeOctets#1#2#3{\expandafter\UTFviiiDefined\csname u8:#1\string #2\string #3\endcsname}
%
\gdef\UTFviiiFourOctets#1#2#3#4{\expandafter\UTFviiiDefined\csname u8:#1\string #2\string #3\string #4\endcsname}

\gdef\UTFviiiDefined#1{%
\gdef\DeclareUnicodeCharacter#1#2{\
  \countUTFz = "#1\relax
  \%\wlog{space\space defining Unicode char U+\#1 (decimal \the\countUTFz)}%
  \begingroup
    \parseXMLCharref
    \def\UTFviiiTwoOctets##1##2{\csname u8:##1\string ##2\endcsname}\
    \def\UTFviiiThreeOctets##1##2##3{\csname u8:##1\string ##2\string ##3\endcsname}\
    \def\UTFviiiFourOctets##1##2##3##4{\csname u8:##1\string ##2\string ##3\string ##4\endcsname}\
    \expandafter\expandafter\expandafter\expandafter\
    \gdef\UTFviiiTmp{#2}\
  \endgroup}
\gdef\parseXMLCharref{\
  \ifnum\countUTFz < "A0\relax
    \errhelp = \EMsimple
    \errmessage{Cannot define Unicode char value < 00A0}\%
  \else\ifnum\countUTFz < "800\relax
    \parseUTFviiiA,\
    \parseUTFviiiB C\UTFviiiTwoOctets.,\
  \else\ifnum\countUTFz < "10000\relax
    \parseUTFviiiA;\
    \parseUTFviiiA,\
    \parseUTFviiiB E\UTFviiiThreeOctets.{},;\
  \else
    \parseUTFviiiA;\
    \parseUTFviiiA,\
    \parseUTFviiiA!\
    \parseUTFviiiB F\UTFviiiFourOctets.!,;\%
  \fi\fi\fi
}
\gdef\parseUTFviiiA#1{\
  \countUTFx = \countUTFz
  \divide\countUTFz by 64
  \countUTFy = \countUTFz
  \multiply\countUTFz by 64
  \advance\countUTFx by -\countUTFz
  \advance\countUTFx by 128
  \uccode `#1\countUTFx
  \countUTFz = \countUTFy}
\gdef\parseUTFviiiA#1\#2\#3\#4{\
  \advance\countUTFz by "#1\relax
  \uccode `#3\countUTFz

---

Open Source Used In Cisco D9800 Network Transport Receiver Version 3.75

1601
Open Source Used In Cisco D9800 Network Transport Receiver Version 3.75

1606
\def\setemergencystretch{%
  \ifx\emergencystretch\thisisundefined
    % Allow us to assign to \emergencystretch anyway.
    \def\emergencystretch{\dimen0}%
  \else
    \emergencystretch = .15\hsize
  \fi
%

% Parameters in order: 1) textheight; 2) textwidth;
% 3) voffset; 4) hoffset; 5) binding offset; 6) topskip;
% 7) physical page height; 8) physical page width.
%
% We also call \setleading{\textleading}, so the caller should define
% \textleading. The caller should also set \parskip.
%
\def\internalpagesizes#1#2#3#4#5#6#7#8{%
    \voffset = #3\relax
    \topskip = #6\relax
    \splitopskip = \topskip
%
    \vsize = #1\relax
    \advance\vsize by \topskip
    \outervsize = \vsize
    \advance\outervsize by 2\topandbottommargin
    \pageheight = \vsize
%
    \hsize = #2\relax
    \outerhsize = \hsize
    \advance\outerhsize by 0.5in
    \pagewidth = \hsize
%
    \normaloffset = #4\relax
    \bindingoffset = #5\relax
%
    \ifpdf
        \pdfpageheight #7\relax
        \pdfpagewidth #8\relax
    \else
        \pdfpageheight 1 true in
        \pdfpagewidth 1 true in
    \fi
%
    \setleading{\textleading}
%
}
\% In texinfo, backslash is an active character; it prints the backslash
\% in fixed width font.
\catcode`\=\active \% @ for escape char from now on.

\% The story here is that in math mode, the \char of \backslashcurfont
\% ends up printing the roman \ from the math symbol font (because \char
\% in math mode uses the \mathcode, and plain.tex sets
\% \mathcode`\="026E). It seems better for \backslashchar{} to always
\% print a typewriter backslash, hence we use an explicit \mathchar,
\% which is the decimal equivalent of "715c (class 7, e.g., use \fam;
\% ignored family value; char position "5C). We can't use " for the
\% usual hex value because it has already been made active.
@def@normalbackslash[@tt @ifmmode @mathchar29020 @else \backslashcurfont @fi]
@let@backslashchar = @normalbackslash % @backslashchar{} is for user documents.

\% On startup, @fixbackslash assigns:
\% @let \ = @normalbackslash
\% \rawbackslash defines an active \ to do \backslashcurfont.
\% \otherbackslash defines an active \ to be a literal \ character with
\% \catcode other. We switch back and forth between these.
@gdef@rawbackslash[@let=\backslashcurfont]
@gdef@otherbackslash[@let=\realbackslash]

\% Same as @turnoffactive except outputs \ as \{\tt \char\} instead of
\% the literal character \char. Also revert - to its normal character, in
\% case the active - from code has slipped in.
\%
{\catcode`- = @active
@gdef@normalturnoffactive[@tt
@let-=@normaldash
@let"=@normaldoublequote
@let$=@normaldollar \%$ font-lock fix
@let+=@normalplus
@let<=@normalless
@let>=@normalgreater
@let-=@normalbackslash
@let^=@normalcaret
@let_=@normalunderscore
@let|=@normalverticalbar
@let~=@normaltilde
@markupsetuplqdefault
@markupsetuprqdefault
@unsepspaces
}

\% Make _ and + \other characters, temporarily.
\% This is canceled by @fixbackslash.
@otherifyactive

% If a .fmt file is being used, we don't want the \input texinfo' to show up.
% That is what \eatinput is for; after that, the \ should revert to printing
% a backslash.
%
@global@let\ = @eatinput
%
% On the other hand, perhaps the file did not have a \input texinfo'. Then
% the first \ in the file would cause an error. This macro tries to fix
% that, assuming it is called before the first \ could plausibly occur.
% Also turn back on active characters that might appear in the input
% file name, in case not using a pre-dumped format.
%
@global@let\ = @normalbackslash
@catcode`\ = @active
@catcode`_ = @active

% Say @foo, not \foo, in error messages.
@escapechar = ` @@

% These (along with & and #) are made active for url-breaking, so need
% active definitions as the normal characters.
@def@normaldot{.}
@def@normalquest{?}
@def@normalslash{/}

% These look ok in all fonts, so just make them not special.
% @hashchar{} gets its own user-level command, because of #line.
@catcode`& = @other @def@normalamp{&}
@catcode`# = @other @def@normalhash{#}
@catcode`% = @other @def@normalpercent{ %}

@let @hashchar = @normalhash

@c Finally, make ` and ' active, so that txicodequoteundirected and
@c txicodequotebacktick work right in, e.g., @w{ @code{`foo'} }. If we
@c don't make ` and ' active, @code will not get them as active chars.
@c Do this last of all since we use ` in the previous @catcode assignments.
@catcode`@ = @active
@catcode`@ = @active
@markupsetuplqdefault
@markupsetuprqdefault

@c Local variables:
1.65 libffi/msvcc.sh 3.2.1

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wpng - simple PNG-writing program writepng.c

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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
January 5, 2017

/*---------------------------------------------------------------*/

wpng - simple PNG-writing program                        writepng.c

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1.75 libsoup 2.56.1

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1.79 libuv-1.11.0 1.11.0

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 */

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS                                           
  uv__io_t event_watcher;                                                   

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
  int rcount;                                                              
  int wcount;                                                             

#define UV_HAVE_KQUEUE 1

#undef UV_BSD_H
#endif /* UV_BSD_H */

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1.80 libvorbis 1.3.5 :1.0

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1.82 libxml2 2.9.8

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1.83 libxslt 1.1.29

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1.84 libyang 0.13

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1.85 Linux kernel 4.1.20

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Version 1.0

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.
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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)
 * 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
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*
*
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*
* M. Welsh, 6 July 1996
*
*
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* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* */

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@c1.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICSTAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
2) skb_clone of received buffers
   See nicstar_free_rx_skb and linearize_buffer for implementation
   details.

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M. Welsh, 6 July 1996

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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

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*
* M. Welsh, 6 July 1996
*
*
*/

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1.86 Linux kernel 4.9.107

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Because of this blurred distinction, using the ordinary General
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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 which the executable runs, unless that component itself accompanies the executable.

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

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICstar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   *         interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   *         and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   *         loss of link, and correctly re-enable PHY when link is
   *         re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
   * as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*       combined, allow nicstar_free_rx_skb to be called to
*       recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
*/

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- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the
  TechnoTrend/Hauppauge DEC driver firmware

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- for adding support for Typhoon DVB-S budget card
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- for tuning/DiSEqC support for the DEC 3000-s

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- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>
- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufky@linuxtv.org>
- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>
- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>
- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>
- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
  single nxt200x frontend driver.

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

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

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M. Welsh, 6 July 1996

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            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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============

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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1.87 lm-sensors 1:3.4.0 :2

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Here is a list of the main contributors to lm-sensors version 3.

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  Original author of sensord.
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  Many improvements to the libsensors configuration file scanner.
* Jean Delvare  
New libsensors API, and migration of sensors and sensord thereto.  
Many optimizations in libsensors and sensors.  
Configuration file converter.  
Rewrite of sensors-detect.  
Support for multiple configuration files in libsensors.  

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1.94 net-snmp 5.7.3 5.7.3
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1.97 nettle 3.3

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- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
- Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- Michael Barone <michael.barone@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
- Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snntp
- Jean-Francois.Boudreault@viagenie.qc.ca>IPv6 support
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- Steve Clift <clift@ml.csiro.au> OMEGA clock driver
- Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
- Sven Dietrich <sven_dietrich@trimble.COM> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
- John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple
A/UX port

Linux port

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

IPv6 support and testing

General maintenance, Windows port interpolation rewrite

NeoClock4X clock driver

GOES clock driver

DEC Alpha port

A/UX port

massive prototyping overhaul

ntpsweep

Oncore driver (Original author)

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

Rewrote \texttt{snntp}\texttt{saveconfig}\texttt{ntpsweep}

RS/6000 AIX modifications, HPUX modifications

\texttt{snntp}\texttt{saveconfig}

VMS port

Network I/O, Windows Port, Code Maintenance

Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

VMS port

ntptrace utility

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock 
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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial 
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   <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes 
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT 
   port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver 
9. [10]Pieter Brooks <pieter.brooks@el.cam.ac.uk> MSF clock driver, 
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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and 
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15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference 
    clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux 
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THE SOFTWARE.
/* -*- Mode: Text -*- */
copyright = {
    date = "1992-2017";
    owner = "The University of Delaware and Network Time Foundation";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = ntp;
};

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

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

version-value = ";/* Don't use -v as a shortcut for --version */

/**
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi .
 */
// doc-sub = {
  // sub-name = version;
  // sub-text = 's/#VERSION#/<<version>>/g';
  // };
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1.104orc 0.4.26

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/*

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

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

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**1.105 pam 1.3.0**

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1.106 pango 1.40.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.1.4, March 11th, 2002

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

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<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
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Device drivers src/mesa/drivers/* MIT, generally

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Coded by Takuji Nishimura and Makoto Matsumoto.

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

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Unix SMB/CIFS implementation.
Samba temporary memory allocation functions

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.4, March 14th, 2010

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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application-supplied function or table used by this function must
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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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    printf("%s",png_get_copyright(NULL));

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg" (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
March 26, 2015
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
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* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine
* To: Kevin Ma <kma@google.com>
* Hi Kevin,
* Thanks for asking. Those routines are public domain (originally posted to
* comp.sys.arm a long time ago), so you can use them freely for any purpose.
* Cheers,
* Wilco
*
* ----- Original Message ----- 
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine
* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
* /

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* Copyright (C) 2005 Steve Underwood
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* Based in part on a single channel G.722 codec which is:
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 *
 * Author: Phil Burk, http://www.softsynth.com
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 * modified for SMP safety on Linux by Leland Lucius
 * also, allowed for const where possible
 * modified for multiple-byte-sized data elements by Sven Fischer
 *
 * Note that this is safe only for a single-thread reader and a
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Author: Sergey Berezin, Clark Barrett

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CVC's SMT-LIB Parser
\file smtlib.y

Author: Sergey Berezin, Clark Barrett

Created: Apr 30 2005

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.4, March 14th, 2010

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 * A "png_get_copyright" function is available, for convenient use in "about"
 * boxes and the like:
 *
 *     printf("%s", png_get_copyright(NULL));
 *
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 * files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).
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 * The contributing authors would like to thank all those who helped
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 *
 * Thanks to Frank J. T. Wojcik for helping with the documentation.
 */

/*
 * Y2K compliance in libpng:
 * =========================
 *
 * December 22, 2014
 *
 * Since the PNG Development group is an ad-hoc body, we can't make
 * an official declaration.
 *
 * This is your unofficial assurance that libpng from version 0.71 and
 * upward through 1.6.16 are Y2K compliant. It is my belief that
 * earlier versions were also Y2K compliant.
 *
 * Libpng only has two year fields. One is a 2-byte unsigned integer
 * that will hold years up to 65535. The other, which is deprecated,
* holds the date in text format, and will hold years up to 9999.
*
* The integer is
* "png_uint_16 year" in png_time_struct.
*
* The string is
* "char time_buffer[29]" in png_struct. This is no longer used
* in libpng-1.6.x and will be removed from libpng-1.7.0.
*
* There are seven time-related functions:
* png.c: png_convert_to_rfc_1123_buffer() in png.c
* (formerly png_convert_to_rfc_1123() prior to libpng-1.5.x and
*   png_convert_to_rfc_1152() in error prior to libpng-0.98)
* png_convert_from_struct_tm() in pngwrite.c, called in pngwrite.c
* png_convert_from_time_t() in pngwrite.c
* png_get_tIME() in pngget.c
* png_handle_tIME() in pngrutil.c, called in pngread.c
* png_set_tIME() in pngrutil.c
* png_write_tIME() in pngwutil.c, called in pngwrite.c
*
* All handle dates properly in a Y2K environment. The
* png_convert_from_time_t() function calls gmtime() to convert from system
* clock time, which returns (year - 1900), which we properly convert to
* the full 4-digit year. There is a possibility that libpng applications
* are not passing 4-digit years into the png_convert_to_rfc_1123_buffer()
* function, or that they are incorrectly passing only a 2-digit year
* instead of "year - 1900" into the png_convert_from_struct_tm() function,
* but this is not under our control. The libpng documentation has always
* stated that it works with 4-digit years, and the APIs have been
* documented as such.
*
* The tIME chunk itself is also Y2K compliant. It uses a 2-byte unsigned
* integer to hold the year, and can hold years as large as 65535.
*
* zlib, upon which libpng depends, is also Y2K compliant. It contains
* no date-related code.
*
* Glenn Randers-Pehrson
* libpng maintainer
* PNG Development Group
*/

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

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

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files

GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

## Versioned libraries rules

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

## Bind internal references

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

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

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

## End BSD-specific setup
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- libpostproc
- optional x86 optimizations in the files
  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
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- the X11 grabber in `libavdevice/x11grab.c`
- the swresample test app in `libsresample/swresample-test.c`
- the `texi2pod.pl` tool
- the following filters in libavfilter:
  - `f_ebur128.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fsp.c`
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  - `vf_histeq.c`
  - `vf_hqdn3d.c`
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  - `vf_kerndeint.c`
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external libraries

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

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compatible libraries

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

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- libvidstab
- libx264
- libx265
- libxavs
- libxvid

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incompatible libraries
----------------------

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Floating point AAN DCT
this implementation is based upon the IJG integer AAN DCT (see jfdctfst.c)

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2006-Jan-27
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If such an object file uses only numerical parameters, data
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*****************************************************************************

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

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Version 3, 29 June 2007
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Unix SMB/CIFS implementation.
Samba temporary memory allocation functions

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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November 12, 2015
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Version 2.1, February 1999

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

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

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

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Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

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WinCE port.
Erik Hensemaerik hensema dot xs4all dot nl
Bug fixes.
Rich Petersons peters at micro-magic dot com
Todd Owen owen at lucidcalm dot dropbear dot dot dot au
Bug fixes to dll loading.
Implementation of async cancelation.
Fred Forrester
Kevin D. Clark
David Baggett
Bug fixes.
Paul Redondo
Scott McCaskell
Bug fixes.
Jef Gearhart
Bug fix.
Arthur Kantor
Mutex enhancements.
Steven Reddies
Bug fix.
Alexander Terekhov
Re-implemented and improved read-write locks;
condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.
Thomas Pfaff
Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
Franco Bezfranco dot bez at gmx dot de
procedure to fix Mingw32 thread-safety issues.
Louis Thomas
(these variables.
David Korndgk
Ported to UWIN.
Phil Frisbie, Jr.phil at hawksoft dot com
Bug fix.
Ralf Brese
Bug fix.
prionx at juno dot com
Bug fixes.
Max Woodburymtew at cds dot duke dot edu
POSIX versioning conditionals;
reduced namespace pollution;
idea to separate routines to reduce statically
linked image sizes.
Rob Fannerrfanner at stonethree dot com
Bug fix.
Michael Johnson michaelj at maine dot rr dot com
Bug fix.
Nicolas Barryboozai at yahoo dot com
Bug fixes.
Piet van Bruggenpietetb at newbridges dot nl
Bug fix.
Makoto Katoraven at oldskool dot jp
AMD64 port.
Panagiotis E. Hadjidoukasph at hpclab dot ceid dot upatras dot gr
Contributed the QueueUserAPCEx package which
makes preemptive async cancelation possible.
Will Bryantwill dot bryant at ecosm dot com
Borland compiler patch and makefile.
Anuj Goyalanuj dot goyal at gmail dot com
Port to Digital Mars compiler.
Gottlob Fregegotlobfrege at gmail dot com
re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchkovidimir at kliatchko dot com
reimplemented pthread_once with the same form
as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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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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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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to attach them to the start of each source file to most effectively
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<signature of Ty Coon>, 1 April 1989
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   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
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src/gzip/adler32.c
src/gzip/infblock.c
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src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/ftrandom/ftrandom.c
#
# EOF

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

    printf("%s", png_get_copyright(NULL));

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
December 3, 2015
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Version 3, 29 June 2007

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The data format used by the zlib library is described by RFCs (Request for
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Dr. Memory: the memory debugger

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- libpostproc
- libmpcdecs
- optional x86 optimizations in the files
  libavcodec/x86/flac_dsp_gpl.asm
  libavcodec/x86/idct_mmx.c
- libutvideo encoding/decoding wrappers in
  libavcodec/libutvideo*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in
  libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
  - f_ebur128.c
  - vf_blackframe.c
- vf_boxblur.c
- vf_colormatrix.c
- vf_cropdetect.c
- vf_decimate.c
- vf_delogo.c
- vf_geq.c
- vf_histeq.c
- vf_hqdn3d.c
- vf_interface.c
- vf_kerndeint.c
- vf_mceint.c
- vf_mp.c
- vf_owdenoise.c
- vf_perspective.c
- vf_phase.c
- vf_pp.c
- vf_pullup.c
- vf_sab.c
- vf_smartblur.c
- vf_spp.c
- vf_stereo3d.c
- vf_super2xsai.c
- vf_tinterlace.c
- vsrc_mptestssrc.c

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There are a handful of files under other licensing terms, namely:

* The files libavcodec/jfdctfst.c, libavcodec/jfdctint_template.c and libavcodec/jrevdct.c are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

external libraries
=================

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

compatible libraries
---------------------
The following libraries are under GPL:
- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by
passing --enable-gpl to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That
license is incompatible with the LGPL v2.1 and the GPL v2, but not with
version 3 of those licenses. So to combine these libraries with FFmpeg, the
license version needs to be upgraded by passing --enable-version3 to configure.

incompatible libraries
----------------------

The Fraunhofer AAC library, FAAC and aacplus are under licenses which
are incompatible with the GPLv2 and v3. We do not know for certain if their
licenses are compatible with the LGPL.

If you wish to enable these libraries, pass --enable-nonfree to configure.
But note that if you enable any of these libraries the resulting binary will
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may result in additional obligations. It is possible that these
restrictions cause the resulting binary to be unredistributeable.

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Version 3, 29 June 2007

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

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

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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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:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the
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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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Version 3, 29 June 2007

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1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

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Vladimir Kliatchkovvladimir at kliatchko dot com reimplemented pthread_once with the same form as described by A.Terekhov (later version 2); implementation of MCS (Mellor-Crummey/Scott) locks.
PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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#!/usr/bin/env python
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"""Utility for checking and processing licensing information in third_party
directories.

Usage: licenses.py <command>

Commands:
  scan   scan third_party directories, verifying that we have licensing info
  credits generate about:credits on stdout

(You can also import this as a module.)

"""

import argparse
import cgi
import os
import sys

# Paths from the root of the tree to directories to skip.
PRUNE_PATHS = set(
    # Same module occurs in crypto/third_party/nss and net/third_party/nss, so
    # skip this one.
    os.path.join('third_party','nss'),
    # Placeholder directory only, not third-party code.
    os.path.join('third_party','adobe'),
    # Apache 2.0 license. See crbug.com/140478
    os.path.join('third_party','bidichecker'),
    # Build files only, not third-party code.
)
os.path.join('third_party','widevine'),

# Only binaries, used during development.
os.path.join('third_party','valgrind'),

# Used for development and test, not in the shipping product.
os.path.join('build','secondary'),
os.path.join('third_party','bison'),
os.path.join('third_party','blanketjs'),
os.path.join('third_party','cygwin'),
os.path.join('third_party','gles2_conform'),
os.path.join('third_party','gnu_binutils'),
os.path.join('third_party','gold'),
os.path.join('third_party','gperf'),
os.path.join('third_party','kasko'),
os.path.join('third_party','lighttpd'),
os.path.join('third_party','llvm'),
os.path.join('third_party','llvm-build'),
os.path.join('third_party','mingw-w64'),
os.path.join('third_party','nacl_sdk_binaries'),
os.path.join('third_party','openssl'),
os.path.join('third_party','pefile'),
os.path.join('third_party','perl'),
os.path.join('third_party','psyco_win32'),
os.path.join('third_party','pylib'),
os.path.join('third_party','pywebsocket'),
os.path.join('third_party','qunit'),
os.path.join('third_party','sinonjs'),
os.path.join('third_party','syzygy'),
os.path.join('third_party','tools', 'profile_chrome', 'third_party'),

# Chromium code in third_party.
os.path.join('third_party','fuzzymatch'),
os.path.join('tools', 'swarming_client'),

# Stuff pulled in from chrome-internal for official builds/tools.
os.path.join('third_party','clear_cache'),
os.path.join('third_party','gnu'),
os.path.join('third_party','googlemac'),
os.path.join('third_party','pcre'),
os.path.join('third_party','psutils'),
os.path.join('third_party','sawbuck'),
# See cbug.com/350472
os.path.join('chrome', 'browser', 'resources', 'chromeos', 'quickoffice'),
# Chrome for Android proprietary code.
os.path.join('clank'),

# Redistribution does not require attribution in documentation.
os.path.join('third_party','directxsdk'),
os.path.join('third_party', 'platformsdk_win2008_6_1'),
os.path.join('third_party', 'platformsdk_win7'),

# For testing only, presents on some bots.

os.path.join('isolate_deps_dir'),

# Overrides some WebRTC files, same license. Skip this one.

os.path.join('third_party', 'webrtc_overrides'),

# Directories we don't scan through.

VCS_METADATA_DIRS = ('.svn', '.git')
PRUNE_DIRS = (VCS_METADATA_DIRS +
              ('out', 'Debug', 'Release', # build files
               'layout_tests'))  # lots of subdirs

ADDITIONAL_PATHS = ( os.path.join('breakpad'),
                     os.path.join('chrome', 'common', 'extensions', 'docs', 'examples'),
                     os.path.join('chrome', 'test', 'chromeos', 'autotest'),
                     os.path.join('chrome', 'test', 'data'),
                     os.path.join('native_client'),
                     os.path.join('net', 'tools', 'spdyshark'),
                     os.path.join('sdch', 'open-vcdiff'),
                     os.path.join('testing', 'gmock'),
                     os.path.join('testing', 'gtest'),
                     os.path.join('tools', 'gyp'),
                     os.path.join('tools', 'page_cycler', 'acid3'),
                     os.path.join('url', 'third_party', 'mozilla'),
                     os.path.join('v8'),
                     # Fake directories to include the strongtalk and fdlibm licenses.
                     os.path.join('v8', 'strongtalk'),
                     os.path.join('v8', 'fdlibm'),
)

# Directories where we check out directly from upstream, and therefore
# can't provide a README.chromium. Please prefer a README.chromium
# wherever possible.

SPECIAL_CASES = {
    os.path.join('native_client'): {
        "Name": "native client",
        "URL": "http://code.google.com/p/nativeclient",
        "License": "BSD",
    },
    os.path.join('sdch', 'open-vcdiff'): {
        "Name": "open-vcdiff",
        "URL": "https://github.com/google/open-vcdiff",
    },
}
"License": "Apache 2.0, MIT, GPL v2 and custom licenses",
"License Android Compatible": "yes",
},
os.path.join('testing', 'gmock'): {
  "Name": "gmock",
  "URL": "http://code.google.com/p/googlemock",
  "License": "BSD",
  "License File": "NOT_SHIPPED",
},
os.path.join('testing', 'gtest'): {
  "Name": "gtest",
  "URL": "http://code.google.com/p/googletest",
  "License": "BSD",
  "License File": "NOT_SHIPPED",
},
os.path.join('third_party', 'angle'): {
  "Name": "Almost Native Graphics Layer Engine",
  "URL": "http://code.google.com/p/angleproject/",
  "License": "BSD",
},
os.path.join('third_party', 'cros_system_api'): {
  "Name": "Chromium OS system API",
  "URL": "http://www.chromium.org/chromium-os",
  "License": "BSD",
  # Absolute path here is resolved as relative to the source root.
  "License File": "LICENSE.chromium_os",
},
os.path.join('third_party', 'lss'): {
  "Name": "linux-syscall-support",
  "URL": "http://code.google.com/p/linux-syscall-support/",
  "License": "BSD",
  "License File": "LICENSE",
},
os.path.join('third_party', 'pdfium'): {
  "Name": "PDFium",
  "URL": "http://code.google.com/p/pdfium/",
  "License": "BSD",
},
os.path.join('third_party', 'pdfsqueeze'): {
  "Name": "pdfsqueeze",
  "URL": "http://code.google.com/p/pdfsqueeze/",
  "License": "Apache 2.0",
  "License File": "COPYING",
},
os.path.join('third_party', 'ppapi'): {
  "Name": "ppapi",
  "URL": "http://code.google.com/p/ppapi/",
}.
os.path.join('third_party', 'scons-2.0.1'): {
    "Name": "scons-2.0.1",
    "URL": "http://www.scons.org",
    "License": "MIT",
    "License File": "NOT_SHIPPED",
},

os.path.join('third_party', 'catapult'): {
    "Name": "catapult",
    "URL": "https://github.com/catapult-project/catapult",
    "License": "BSD",
    "License File": "NOT_SHIPPED",
},

os.path.join('third_party', 'v8-i18n'): {
    "Name": "Internationalization Library for v8",
    "URL": "http://code.google.com/p/v8-i18n/",
    "License": "Apache 2.0",
},

os.path.join('third_party', 'WebKit'): {
    "Name": "WebKit",
    "URL": "http://webkit.org/",
    "License": "BSD and GPL v2",
    # Absolute path here is resolved as relative to the source root.
    "License File": "/third_party/WebKit/LICENSE_FOR_ABOUT_CREDITS",
},

os.path.join('third_party', 'webpagereplay'): {
    "Name": "webpagereplay",
    "URL": "http://code.google.com/p/web-page-replay",
    "License": "Apache 2.0",
    "License File": "NOT_SHIPPED",
},

os.path.join('tools', 'gyp'): {
    "Name": "gyp",
    "URL": "http://code.google.com/p/gyp",
    "License": "BSD",
    "License File": "NOT_SHIPPED",
},

os.path.join(v8): {
    "Name": "V8 JavaScript Engine",
    "URL": "http://code.google.com/p/v8",
    "License": "BSD",
},

os.path.join(v8, 'strongtalk'): {
    "Name": "Strongtalk",
    "URL": "http://www.strongtalk.org/",
    "License": "BSD",
    # Absolute path here is resolved as relative to the source root.
    "License File": "/v8/LICENSE.strongtalk",
}
os.path.join('v8', 'fdlibm'): {
    "Name": "fdlibm",
    "URL": "http://www.netlib.org/fdlibm/",
    "License": "Freely Distributable",
    # Absolute path here is resolved as relative to the source root.
    "License File": "/v8/src/third_party/fdlibm/LICENSE",
    "License Android Compatible": "yes",
},

os.path.join('third_party', 'khronos_glcts'): {
    # These sources are not shipped, are not public, and it isn't
    # clear why they're tripping the license check.
    "Name": "khronos_glcts",
    "URL": "http://no-public-url",
    "License": "Khronos",
    "License File": "NOT_SHIPPED",
},

os.path.join('tools', 'telemetry', 'third_party', 'gsutil'): {
    "Name": "gsutil",
    "URL": "https://cloud.google.com/storage/docs/gsutil",
    "License": "Apache 2.0",
    "License File": "NOT_SHIPPED",
},

}  

# Special value for 'License File' field used to indicate that the license file
# should not be used in about:credits.
NOT_SHIPPED = "NOT_SHIPPED"

class LicenseError(Exception):
    """We raise this exception when a directory's licensing info isn't
    fully filled out."""
    pass

def AbsolutePath(path, filename, root):
    """Convert a path in README.chromium to be absolute based on the source
    root."""
    if filename.startswith('/ '):
        # Absolute-looking paths are relative to the source root
        # (which is the directory we're run from).
        absolute_path = os.path.join(root, filename[1:])
    else:
        absolute_path = os.path.join(root, path, filename)
    if os.path.exists(absolute_path):
        return absolute_path
    return None

def ParseDir(path, root, require_license_file=True, optional_keys=None):

"""Examine a third_party/foo component and extract its metadata."""

# Parse metadata fields out of README.chromium.
# We examine "LICENSE" for the license file by default.
metadata = {
    "License File": "LICENSE",  # Relative path to license text.
    "Name": None,               # Short name (for header on about:credits).
    "URL": None,                # Project home page.
    "License": None,            # Software license.
}

if optional_keys is None:
    optional_keys = []

if path in SPECIAL_CASES:
    metadata.update(SPECIAL_CASES[path])
else:
    # Try to find README.chromium.
    readme_path = os.path.join(root, path, 'README.chromium')
    if not os.path.exists(readme_path):
        raise LicenseError("missing README.chromium or licenses.py "
                            "SPECIAL_CASES entry")

for line in open(readme_path):
    line = line.strip()
    if not line:
        break
    for key in metadata.keys() + optional_keys:
        field = key + "": "
        if line.startswith(field):
            metadata[key] = line[len(field):]

# Check that all expected metadata is present.
errors = []
for key, value in metadata.iteritems():
    if not value:
        errors.append("couldn't find " + key + " line "
                       "in README.chromium or licences.py "
                       "SPECIAL_CASES")

# Special-case modules that aren't in the shipping product, so don't need
# their license in about:credits.
if metadata["License File"] != NOT_SHIPPED:
    # Check that the license file exists.
    for filename in (metadata["License File"], "COPYING"):
        license_path = AbsolutePath(path, filename, root)
        if license_path is not None:
            break
if require_license_file and not license_path:
    errors.append("License file not found. ")
    "Either add a file named LICENSE, 
    "import upstream's COPYING if available, 
    "or add a 'License File:' line to 
    "README.chromium with the appropriate path.")
metadata["License File"] = license_path

if errors:
    raise LicenseError("\n".join(errors))
return metadata

def ContainsFiles(path, root):
    """Determines whether any files exist in a directory or in any of its 
    subdirectories."""
    for __, dirs, files in os.walk(os.path.join(root, path)):
        if files:
            return True
    for vcs_metadata in VCS_METADATA_DIRS:
        if vcs_metadata in dirs:
            dirs.remove(vcs_metadata)
    return False

def FilterDirsWithFiles(dirs_list, root):
    # If a directory contains no files, assume it's a DEPS directory for a 
    # project not used by our current configuration and skip it.
    return [x for x in dirs_list if ContainsFiles(x, root)]

def FindThirdPartyDirs(prune_paths, root):
    """Find all third_party directories underneath the source root."""
    third_party_dirs = set()
    for path, dirs, files in os.walk(root):
        path = path[len(root)+1:] # Pretty up the path.
        if path in prune_paths:
            dirs[:] = []
            continue

        # Prune out directories we want to skip.
        # (Note that we loop over PRUNE_DIRS so we're not iterating over a 
        # list that we're simultaneously mutating.)
        for skip in PRUNE_DIRS:
            if skip in dirs:
                dirs.remove(skip)
if os.path.basename(path) == 'third_party':
    # Add all subdirectories that are not marked for skipping.
    for dir in dirs:
        dirpath = os.path.join(path, dir)
        if dirpath not in prune_paths:
            third_party_dirs.add(dirpath)

    # Don't recurse into any subdirs from here.
    dirs[:] = []
    continue

    # Don't recurse into paths in ADDITIONAL_PATHS, like we do with regular
    # third_party/foo paths.
    if path in ADDITIONAL_PATHS:
        dirs[:] = []

    for dir in ADDITIONAL_PATHS:
        if dir not in prune_paths:
            third_party_dirs.add(dir)

    return third_party_dirs

def FindThirdPartyDirsWithFiles(root):
    third_party_dirs = FindThirdPartyDirs(PRUNE_PATHS, root)
    return FilterDirsWithFiles(third_party_dirs, root)

def ScanThirdPartyDirs(root=None):
    """Scan a list of directories and report on any problems we find."""
    if root is None:
        root = os.getcwd()
    third_party_dirs = FindThirdPartyDirsWithFiles(root)

    errors = []
    for path in sorted(third_party_dirs):
        try:
            metadata = ParseDir(path, root)
        except LicenseError, e:
            errors.append((path, e.args[0]))
            continue

        for path, error in sorted(errors):
            print path + ": " + error

    return len(errors) == 0
def GenerateCredits(file_template_file, entry_template_file, output_file):
    """Generate about:credits."""

def EvaluateTemplate(template, env, escape=True):
    """Expand a template with variables like {{foo}} using a
dictionary of expansions."""
    for key, val in env.items():
        if escape:
            val = cgi.escape(val)
            val = val.replace("/*", "/*")
        template = template.replace('{{%s}}' % key, val)
    return template

root = os.path.join(os.path.dirname(__file__), '..')
third_party_dirs = FindThirdPartyDirs(PRUNE_PATHS, root)

if not file_template_file:
    file_template_file = os.path.join(root, 'components', 'about_ui',
                                      'resources', 'about_credits.tmpl')
if not entry_template_file:
    entry_template_file = os.path.join(root, 'components', 'about_ui',
                                        'resources',
                                        'about_credits_entry.tmpl')

entry_template = open(entry_template_file).read()
entries = []
for path in third_party_dirs:
    try:
        metadata = ParseDir(path, root)
    except LicenseError:
        # TODO(phajdan.jr): Convert to fatal error (http://crbug.com/39240).
        continue
    if metadata['License File'] == NOT_SHIPPED:
        continue
    env = {
        'name': metadata['Name'],
        'name-sanitized': metadata['Name'].replace(' ', '-'),
        'url': metadata['URL'],
        'license': open(metadata['License File'], 'rb').read(),
        'license-type': metadata['License']
    }
    entry = {
        'name': metadata['Name'],
        'content': EvaluateTemplate(entry_template, env),
    }
    entries.append(entry)
entries.sort(key=lambda entry: (entry['name'], entry['content']))
entries_contents = '\n'.join([entry['content'] for entry in entries])
file_template = open(file_template_file).read()
template_contents = "<!-- Generated by licenses.py; do not edit. -->" 
template_contents += EvaluateTemplate(file_template, 
{'entries': entries_contents}, 
escape=False)

if output_file:
    with open(output_file, 'w') as output:
        output.write(template_contents)
else:
    print template_contents

return True

def main():
    parser = argparse.ArgumentParser()
    parser.add_argument('--file-template', 
                        help='Template HTML to use for the license page.')
    parser.add_argument('--entry-template', 
                        help='Template HTML to use for each license.')
    parser.add_argument('command', choices=['help', 'scan', 'credits'])
    parser.add_argument('output_file', nargs='?')
    args = parser.parse_args()

    if args.command == 'scan':
        if not ScanThirdPartyDirs():
            return 1
    elif args.command == 'credits':
        if not GenerateCredits(args.file_template, args.entry_template, 
                                args.output_file):
            return 1
    else:
        print __doc__
        return 1

if __name__ == '__main__':
sysexit(main())
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import json
import os
import sys
import common

import common

def main_run(args):
    with common.temporary_file() as tempfile_path:
        rc = common.run_command([
            os.path.join(common.SRC_DIR, 'tools', 'checklicenses',
                            'checklicenses.py'),
            '--json', tempfile_path
        ])

        with open(tempfile_path) as f:
            checklicenses_results = json.load(f)

        result_set = set()
        for result in checklicenses_results:
            result_set.add((result['filename'], result['license']))

        json.dump({'valid': True,
                  'failures': ['%s: %s' % (r[0], r[1]) for r in result_set],
                  }, args.output)

        return rc

    def main_compile_targets(args):
        json.dump([], args.output)

    if __name__ == '__main__':
        funcs = {
            'run': main_run,
            'compile_targets': main_compile_targets,
        }
        sys.exit(common.run_script(sys.argv[1:], funcs))

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import json
import os
import sys

import common

def main_run(args):
    with common.temporary_file() as tempfile_path:
        rc = common.run_command([
            os.path.join(common.SRC_DIR, 'android_webview', 'tools',
                'webview_licenses.py'),
            'scan',
            '--json', tempfile_path
        ])

        with open(tempfile_path) as f:
            results = json.load(f)

        json.dump({
            'valid': True,
            'failures': results,
        }, args.output)

        return rc

    def main_compile_targets(args):
        json.dump([], args.output)

    if __name__ == '__main__':
        funcs = {
            'run': main_run,
            'compile_targets': main_compile_targets,
        }
        sys.exit(common.run_script(sys.argv[1:], funcs))

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# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Mocking Framework project. People
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# here. Please keep the list sorted by first names.

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  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in
text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing
    all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

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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
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This is a header file for the x264ASM assembly language, which uses
NASM/YASM syntax combined with a large number of macros to provide easy
abstraction between different calling conventions (x86_32, win64, linux64).
It also has various other useful features to simplify writing the kind of
DSP functions that are most often used in x264.

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to the largest audience possible. Of course, if you modify it for your own
purposes to add a new feature, we strongly encourage contributing a patch
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include $(SRC_PATH)/build/arch.mk
SHAREDLIBSUFFIX = so
SHAREDLIBSUFFIXVER=$(SHAREDLIBSUFFIX).$(SHAREDLIBVERSION)
SHLDFLAGS = -Wl,-soname,$(LIBPREFIX)$(PROJECT_NAME).$(SHAREDLIBSUFFIXVER)
CFLAGS += -fPIC
LDFLAGS += -lpthread
ifeq ($(ASM_ARCH), x86)
  ifeq ($(ARCH), x86_64)
    ASMFLAGS += -f elf64
  else
    ASMFLAGS += -f elf
  endif
endif /*
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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

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

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That's all there is to it!

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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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      (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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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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<td>src/mesa/drivers/*</td>
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February 2002

Preamble
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The Berkeley Software Distribution ("BSD") license has proven very effective over the years at allowing for a wide spread of work throughout both commercial and non-commercial products. For programmers whose primary intention is to improve the general quality of available software, it is arguable that there is no better license than the BSD license, as it permits improvements to be used wherever they will help, without idealogical or metallic constraint.

This is of particular value to those who produce reference implementations of proposed standards: The case of TCP/IP clearly illustrates that freely and universally available implementations lead the rapid acceptance of standards -- often even being used instead of a de jure standard (eg, OSI network models).

With the rapid proliferation of software licensed under the GNU General Public License, however, the continued success of this role is called into question. Given that the inclusion of a few lines of "GPL-tainted" work into a larger body of work will result in restricted distribution -- and given that further work will likely build upon the "tainted" portions, making them difficult to remove at a future date -- there are inevitable circumstances where authors would, in order to protect their goal of providing for the widespread usage of their work, wish to guard against such "GPL-taint".

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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* Special thanks also go to La'szlo Ne'meth <nemethl@gyorsposta.hu> who is the author of the Hungarian dictionary and who developed and contributed the code to support compound words in MySpell and fixed numerous problems with the encoding case conversion tables.

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* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine
* To: Kevin Ma <kma@google.com>
* Hi Kevin,
* Thanks for asking. Those routines are public domain (originally posted to
* comp.sys.arm a long time ago), so you can use them freely for any purpose.
* Cheers,
* Wilco
*
* ----- Original Message ----- 
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine
* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
*/

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/
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* g711.h - In line A-law and u-law conversion routines
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* 
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modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h

License:
/**
 * $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
 * Portable Audio I/O Library
 * Memory barrier utilities
 *
 * Author: Bjorn Roche, XO Audio, LLC
 *
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/*
 * $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
 * Portable Audio I/O Library
 * Ring Buffer utility.
 *
 * Author: Phil Burk, http://www.softsynth.com
 * modified for SMP safety on Mac OS X by Bjorn Roche
 * modified for SMP safety on Linux by Leland Lucius
 * also, allowed for const where possible
 * modified for multiple-byte-sized data elements by Sven Fischer
 *
 * Note that this is safe only for a single-thread reader and a
 * single-thread writer.
 *
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#FFmpeg:

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimizations in the files
- `libavcodec/x86/flac_dsp_gpl.asm`
- `libavcodec/x86/idct_mmx.c`
- `libavfilter/x86/vf_removegrain.asm`
- libutvideo encoding/decoding wrappers in `libavcodec/libutvideo*.cpp`
- the X11 grabber in `libavdevice/x11grab.c`
- the swresample test app in `libswresample/swresample-test.c`
- the `texi2pod.pl` tool
- the following filters in libavfilter:
  - `f_ebur128.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fspp.c`
  - `vf_geq.c`
  - `vf_histeq.c`
  - `vf_hqdn3d.c`
  - `vf_interlace.c`
  - `vf_kerne dint.c`
  - `vf_mcodeint.c`
  - `vf_mpdecimate.c`
  - `vf_owdenoise.c`
  - `vf_perspective.c`
  - `vf_phase.c`
  - `vf_pp.c`
  - `vf_pp7.c`
  - `vf_pullup.c`
  - `vf_sab.c`
  - `vf_smartblur.c`
  - `vf_repeatfields.c`
  - `vf_spp.c`
  - `vf_stereo3d.c`
  - `vf_super2xsai.c`
  - `vf_tinterlace.c`
  - `vf_uspp.c`
  - `vsrc_mptestsrc.c`

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There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

* `tests/reference.pnm` is under the expat license.

**external libraries
==================

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

**compatible libraries
----------------------

The following libraries are under GPL:
- frei0r
- libcdio
- librubberband
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

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**incompatible libraries
------------------------

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

## Versioned libraries rules

%.$@.$@ targets
%.$@ targets
$(RM) $@ && ln -s ${<F} $@
%.$@ targets
%.$@ targets
$(RM) $@ && ln -s ${*F}.$@ $@

## Bind internal references

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

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

## Remove shared library ‘s’
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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- For files that already have a copyright header, the header is modified while keeping the year and holder intact.
- For files that don't have a copyright header, we add one with the current year and default holder.

@author: epoger@google.com
import fileparser

# Only modify copyright stanzas if the copyright holder is one of these.
ALLOWED_COPYRIGHT_HOLDERS = ['Google Inc.',
    'Skia',
    'The Android Open Source Project',
]

def Main(root_directory):
    """Run everything.

    @param root_directory root directory within which to modify all files
    """
    filepaths = GetAllFilepaths(root_directory)
    for filepath in filepaths:
        parser = fileparser.CreateParser(filepath)
        if not parser:
            ReportWarning('cannot find a parser for file %s, skipping...' % filepath)
            continue
        old_file_contents = ReadFileIntoString(filepath)
        comment_blocks = parser.FindAllCommentBlocks(old_file_contents)
        if not comment_blocks:
            ReportWarning('cannot find any comment blocks in file %s' % filepath)
        old_copyright_block = parser.FindCopyrightBlock(comment_blocks)
        if not old_copyright_block:
            ReportWarning('cannot find copyright block in file %s' % filepath)
        (year, holder) = parser.GetCopyrightBlockAttributes(old_copyright_block)
        if holder and not ConfirmAllowedCopyrightHolder(holder):
            ReportWarning('unrecognized copyright holder "%s" in file %s, skipping...' % (holder, filepath))
            continue
        new_copyright_block = parser.CreateCopyrightBlock(year, holder)
        if old_copyright_block:
            new_file_contents = old_file_contents.replace(
                old_copyright_block, new_copyright_block, 1)
        else:
            new_file_contents = new_copyright_block + old_file_contents
        WriteStringToFile(new_file_contents, filepath)

def GetAllFilepaths(root_directory):
    """Return a list of all files (absolute path for each one) within a tree.

    @param root_directory root directory within which to find all files
    """
path_list = []
for dirpath, dirnames, filenames in os.walk(root_directory):
    for filename in filenames:
        path_list.append(os.path.abspath(os.path.join(dirpath, filename)))
return path_list

def ReportWarning(text):
    """Report a warning, but continue."
    print 'warning: %s' % text

def ReportError(text):
    """Report an error and raise an exception."
    raise IOError(text)

def ReadFileIntoString(filepath):
    """Returns the full contents of this file as a string."
    with open(filepath, 'r') as file_handle:
        contents = file_handle.read()
    return contents

def WriteStringToFile(string, filepath):
    """Writes this string out to filepath, replacing the file if it already exists."
    with open(filepath, 'w') as file_handle:
        file_handle.write(string)

def ConfirmAllowedCopyrightHolder(holder):
    """Returns True if this is one of our allowed copyright holders."
    @param holder copyright holder as a string
    return holder in ALLOWED_COPYRIGHT_HOLDERS

Main(sys.argv[1])

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import datetime
import re

def CreateParser(filepath):
    """Returns a Parser as appropriate for the file at this filepath.
    """
    if (filepath.endswith('.cpp') or
        filepath.endswith('.h') or
        filepath.endswith('.c')):
        return CParser()
    else:
        return None

class Parser(object):
    """Base class for all language-specific parsers.
    """
    def __init__(self):
        self._copyright_pattern = re.compile('copyright', re.IGNORECASE)
        self._attribute_pattern = re.compile(  
            'copyright.*\D\d\{4\}\W*(\w.*\[\w.\])', re.IGNORECASE)

def FindCopyrightBlock(self, comment_blocks):
    """Given a list of comment block strings, return the one that seems
    like the most likely copyright block.
    
    Returns None if comment_blocks was empty, or if we couldn't find
    a comment block that contains copyright info."
    if not comment_blocks:
        return None
    for block in comment_blocks:
        if self._copyright_pattern.search(block):
            return block

def GetCopyrightBlockAttributes(self, comment_block):
    """Given a comment block, return a tuple of attributes: (year, holder).
    
    If comment_block is None, or none of the attributes are found,
    this will return (None, None)."
    if not comment_block:
        return (None, None)
    matches = self._attribute_pattern.findall(comment_block)
    if not matches:
        return (None, None)
    first_match = matches[0]
    return (first_match[0], first_match[1])
class CParser(Parser):
    """Parser that knows how to parse C/C++ files."
    """

    DEFAULT_YEAR = datetime.date.today().year
    DEFAULT_HOLDER = 'Google Inc.'
    COPYRIGHT_BLOCK_FORMAT = ""
    */
    * Copyright %s %s
    *
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    * found in the LICENSE file.
    */
    ...

    def __init__(self):
        super(CParser, self).__init__()
        self._comment_pattern = re.compile('/\*.*?\*/', re.DOTALL)

    def FindAllCommentBlocks(self, file_contents):
        """Returns a list of all comment blocks within these file contents.
        """
        return self._comment_pattern.findall(file_contents)

    def CreateCopyrightBlock(self, year, holder):
        """Returns a copyright block suitable for this language, with the
        given attributes.

        @param year year in which to hold copyright (defaults to DEFAULT_YEAR)
        @param holder holder of copyright (defaults to DEFAULT_HOLDER)
        """
        if not year:
            year = self.DEFAULT_YEAR
        if not holder:
            holder = self.DEFAULT_HOLDER
        return self.COPYRIGHT_BLOCK_FORMAT % (year, holder)

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/*
* A "png_get_copyright" function is available, for convenient use in "about"
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*
*     printf("%s", png_get_copyright(NULL));
*/
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*/

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* The contributing authors would like to thank all those who helped
* with testing, bug fixes, and patience. This wouldn't have been
* possible without all of you.
* *
* Thanks to Frank J. T. Wojcik for helping with the documentation.
*/

/*
* Y2K compliance in libpng:
* =============
* *
* December 22, 2014
* *
* Since the PNG Development group is an ad-hoc body, we can't make
* an official declaration.
* *
* This is your unofficial assurance that libpng from version 0.71 and
* upward through 1.6.16 are Y2K compliant. It is my belief that
* earlier versions were also Y2K compliant.
* *
* Libpng only has two year fields. One is a 2-byte unsigned integer
* that will hold years up to 65535. The other, which is deprecated,
* holds the date in text format, and will hold years up to 9999.
* *
* The integer is
* "png_uint_16 year" in png_time_struct.
* *
* The string is
* "char time_buffer[29]" in png_struct. This is no longer used
* in libpng-1.6.x and will be removed from libpng-1.7.0.
* *
* There are seven time-related functions:
* png.c: png_convert_to_rfc_1123_buffer() in png.c
* (formerly png_convert_to_rfc_1123() prior to libpng-1.5.x and
* png_convert_to_rfc_1152() in error prior to libpng-0.98)
* png_convert_from_struct_tm() in pngwrite.c, called in pngwrite.c
* png_convert_from_time_t() in pngwrite.c
The tIME chunk itself is also Y2K compliant. It uses a 2-byte unsigned integer to hold the year, and can hold years as large as 65535.

zlib, upon which libpng depends, is also Y2K compliant. It contains no date-related code.

Glenn Randers-Pehrson
libpng maintainer
PNG Development Group
*/

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Version 2.0, January 2004

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/* zlib.h -- interface of the 'zlib' general purpose compression 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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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.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Version 3, 29 June 2007

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

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0. Definitions.

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

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

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

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

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

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

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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.

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Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5, 6, 7, 8, 9, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, and 10.8 of this Agreement.

10.4 Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 9. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by The Qt Company in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

10.5 Export Control

Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software.

10.6 Governing Law and Legal Venue

This Agreement shall be governed by and construed in accordance with the federal laws of the United States of America and the internal laws of the State of New York without given effect to any choice of law rule that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply. Each Party (a) hereby irrevocably submits itself to and consents to the jurisdiction of
the United States District Court for the Southern District of New York
(or if such court lacks jurisdiction, the state courts of the State of
New York) for the purposes of any action, claim, suit or proceeding
between the Parties in connection with any controversy, claim, or
dispute arising out of or relating to this Agreement; and (b) hereby
waives, and agrees not to assert by way of motion, as a defense or
otherwise, in any such action, claim, suit or proceeding, any claim that
is not personally subject to the jurisdiction of such court(s), that the
action, claim, suit or proceeding is brought in an inconvenient forum or
that the venue of the action, claim, suit or proceeding is improper.
Notwithstanding the foregoing, nothing in this Section 9.6 is intended
to, or shall be deemed to, constitute a submission or consent to, or
selection of, jurisdiction, forum or venue for any action for patent
infringement, whether or not such action relates to this Agreement.

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government of the United States. The following shall apply if Licensee
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consisting of "commercial computer software" and "commercial computer
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TECHNOLOGY PREVIEW LICENSE AGREEMENT: Rest of the World
Agreement version 2.4

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"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50%) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

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9. CONFIDENTIALITY

Each party acknowledges that during the Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its Affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.
The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between The Qt Company and Licensee conflict with the terms of this Section 9, this Section 9 shall be controlling over the terms of the Non-Disclosure Agreement.

10. GENERAL PROVISIONS

10.1 No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld.

10.2 Termination

The Qt Company may terminate the Agreement at any time immediately upon written notice by The Qt Company to Licensee if Licensee breaches this Agreement.

Upon termination of this Agreement, Licensee shall return to The Qt Company all copies of Licensed Software that were supplied by The Qt Company. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to The Qt Company a written confirmation that this has occurred.

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apply unless expressly accepted by The Qt Company in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

10.5 Export Control

Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software.

10.6 Governing Law and Legal Venue

This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes arising out of or relating to this Agreement shall be resolved in arbitration under the Rules of Arbitration of the Chamber of Commerce of Helsinki, Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

10.7 No Implied License

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Version 2.1, February 1999

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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 other code with the library, you must provide
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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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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
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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:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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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
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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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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\note Cross-module dependencies are also described on a general level. All Qt modules depend on \l{Qt Core}.

\table
\header \li Qt Module/Tool \li Component \li Description \li License Type \li Notes
\row \li {1,32} Qt Core
\row \li \l{QSegfaultHandler Class} \l{QSegfaultHandler}
  \li Parts of implementation of QSegfaultHandler class. \li BSD-style 
\row \li \l{QUrl::fromUserInput} \l{QUrl}
  \li Implementation of QUrl::fromUserInput(). \li Modified BSD
\row \li \l{Contributions to the Cocoa Platform Plugin Files} \l{Cocoa Platform Plugin}
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\row \li \l{[Shift-JIS Text Codec]}
  \li A character encoding for Japanese. \li BSD-style
\row \li \l{ISO-2022-JP (JIS) Text Codec}
  \li A widely used encoding for Japanese. \li BSD-style
\row \li \l{EUC-JP Text Codec}
  \li EUC-JP is a variable-width encoding used to represent the elements of three Japanese character set standards. \li BSD-style
\row \li \l{EUC-KR Text Codec}
  \li Extended Unix Code (EUC) is a multibyte character encoding system used primarily for Japanese, Korean, and simplified Chinese. \li BSD-style
\row \li \l{GBK Text Codec}
  \li GBK is an extension of the GB2312 character set for simplified Chinese characters, used mainland China. \li BSD-style
\row \li \l{Big5 Text Codec}
  \li Big5, or BIG-5, is a Chinese character encoding method used for Traditional Chinese characters. \li BSD-style
\row \li \l{Big5-HKSCS Text Codec}
  \li Big5-HKSCS is a Chinese character set with more than 4700 characters. \li BSD-style
\row \li \l{TSCII Text Codec}
  \li The TSCII codec provides conversion to and from the Tamil TSCII encoding. \li BSD-style
\row \li \l{Stack-less Just-In-Time compiler}
  \li A platform-independent JIT compiler. \li BSD
\row \li \l{Parts of the codecs implemented by Qt}
  \li BSD
\row \li \l{Unicode}
  \li Unicode character data. \li Permissive, GPL-compatible
\row \li \l{Macros for building Qt files}
  \li Macros used in CMake files for building Qt. \li BSD
The PCRE library

The PCRE library is a set of functions that implement regular expression pattern matching using the same syntax and semantics as Perl 5.

BSD-style

Google Type Traits

Custom implementation of templated type traits as defined by C++11.

BSD-style

Easing Equations

Easing Equations is a collection of swappable functions that add flavor to motion.

BSD-style

Third-party Licenses

Android GNU C++ Run-time Licensing

GNU C++ run-time library (libstdc++) for Android. GPLv3 with exception Qt for Android

forkfd

A tool to facilitate spawning sub-processes. MIT Unix systems

BSD

FreeBSD strtoll and strtoull

Functions for converting a string to long long integer.

BSD

MD4 (md4.cpp and md4.h)

MD4 implements the MD4 message-digest algorithm.

BSD

MD5 (md5.cpp and md5.h)

MD5 implements the MD5 message-digest algorithm.

BSD

Mesa 3D Graphics Library

Mesa llvmpipe software rasterizer backend (\c opengl32sw.dll) for Windows builds.

MIT Qt for Windows

SHA-1 (sha1.cpp)

SHA-1 implements the SHA-1 encryption algorithm.

BSD

SHA-3, originally known as Keccak

SHA-3 implements the SHA-3 encryption algorithm.

BSD

Data Compression Library (zlib) version 1.2.5

zlib is a general purpose data compression library.

BSD

The Public Suffix List

A list of all known public Internet suffixes.

Mozilla Public License

Qt Gui

Code used for smooth scaling in QImage::transformed().

BSD

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HarfBuzz (harfbuzz)

OpenType layout engine.

BSD

FreeType 2 (freetype) version 2.3.12

FreeType Project License

Anti-aliasing rasterizer from FreeType 2

GPLv2, FreeType Project License

PNG Reference Library (libpng) version 1.6.17

PNG Reference Library

A library for reducing the time and effort it takes to support the PNG format.

BSD

Pixman (pixman) version 0.17.11

Pixman

Pixman is a library that provides low-level pixel manipulation features such as image compositing and
trapezoid rasterization. BSD-style

Drag and Drop

Allows users to transfer information between and within applications. BSD-style

ANGLE (angle)

Opensource project to map OpenGL ES API calls to DirectX API. BSD-style

Native Style for Android

Apache License 2.0

Qt for Windows

Qt for Android

Qt Location

Poly2Tri

Poly2Tri is a sweepline constrained Delaunay Polygon Triangulation Library. BSD-style

Qt Bluetooth

BlueZ

BlueZ is a Bluetooth stack for Linux based operating systems GPL v2

Used by sdpscanner tool which is called by Qt Bluetooth on BlueZ 5 systems.

Qt applications do not link to GPL code.

Qt Multimedia

FFTReal version 2.11

Fast Fourier transform of real-valued arrays. LGPL (Used in example code).

Qt Canvas 3D

Three.js Loader

A parser for loading 3D models from JSON data structures.

MIT (Used in example code).

gl-matrix.js version 2.2.2

High performance matrix and vector operations

MIT (Used in example code).

Qt SVG

Qt SVG License Information

Parts of code for arc handling in Qt SVG module. BSD-style Depends on Qt Gui, Qt Widgets
<table>
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<tr>
<td>LGPL v3 or GPL v2 + Qt commercial license</td>
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<td>Implementation of the recursive shadow casting algorithm in Qt Designer</td>
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<td>A C++ crypto library used in Qt Creator</td>
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<td>WebP</td>
<td>SQLite (sqlite) version 3.8.5.0</td>
</tr>
</tbody>
</table>

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**Open Source Used In Cisco D9800 Network Transport Receiver Version 3.75**

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4677
A C library that implements a self-contained, embeddable, zero-configuration SQL database engine. BSD-style

(Bison Parser 2.3a) [Bison Parser]
Bison is a parser generator. GPL with exception Depends on Qt Network

{1,4} Qt XML Patterns

[JPEG Software (libjpeg) version 8c] {JPEG}
C software to implement JPEG image compression and decompression. BSD-style

[IAccessible2 IDL Specification] {IAccessible2}
An accessibility API for Microsoft Windows applications. BSD {Qt for Windows}

{Cycle}
A CPU tick counter. MIT

{callgrind.h specific license}
BSD-style

[Third-Party Licenses Used in Qt#xcb] {xcb}
A C language binding for the X Window System. BSD-style {Qt for Linux/X11}

[at-spi and at-spi2]
A toolkit-neutral way of providing accessibility facilities in application. LGPL {Qt for Linux/X11}

[Third-Party Licenses Used in Qt#xkbcommon] {xkbcommon}
Keymap handling library for toolkits and window systems. BSD-style {Qt for Linux/X11}

{1,3} Qt Tools

{4,1} {Third-party Licenses}
{Clucene Core Library}
A high-performance, full-featured text search engine written in C++. LGPL/Apache

{1,6} Qt Virtual Keyboard

{4,1} {Third-party Licenses}
{Lipi Toolkit (LipiTk)} {Lipi Toolkit}
An open source toolkit for online Handwriting Recognition (HWR). MIT-Style License

{OpenWnn}
A Japanese IME
Apache License
An IME for Standard Chinese input.

A traditional Chinese IME.

A traditional Chinese IME.

These headers are based on EGL 1.5 specification.

These headers are based on OpenGL ES 2.0 specification.

These headers are based on OpenGL ES 3.1 specification.

The header is based on OpenKODE Core 1.0 specification.

The assembly code generated use by the JIT.

String conversion routines for IEEE doubles.

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\list
  \li \c {src/3rdparty/android/extract.h}
\endlist

\section{QSegfaultHandler Class}

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- Parts of the QSegfaultHandler class in 
  `qtbase/src/corelib/kernel/qcrashhandler.cpp`.

\section{Anti-aliasing rasterizer from FreeType 2}

Parts of the FreeType project have been modified and put into Qt for use in the painting subsystem. These files are ftraster.h, ftraster.c, ftgrays.h and ftgrays.c. The following modifications has been made to these files:

- Renamed FT_ and ft_ symbols to QT_FT_ and qt_ft_ to avoid name conflicts in `qrasterdefs_p.h`.
- Removed parts of code not relevant when compiled with _STANDALONE_ defined.
- Changed behavior in `ftraster.c` to follow X polygon filling rules.
- Implemented support in `ftraster.c` for winding / odd even polygon fill rules.
- Replaced bitmap generation with span generation in `ftraster.c`.
- Renamed `ftgrays.h` as `qgrayraster_p.h`.
- Renamed `ftgrays.c` as `qgrayraster.c`.
- Renamed `ftimage.h` as `qrasterdefs_p.h`.

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The MD5 checksum support (only used for debugging in development builds) is in the public domain.

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\section{QUrl::fromUserInput}

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\list
\li valgrind_p.h in qtbase/src/testlib/3rdparty
\endlist

\hr

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\list
\li cycle_p.h in qtbase/src/testlib/3rdparty
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\list
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\endlist

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\li Included in \{util/unicode/data\}, \{tests/auto/qtextboundaryfinder/data\} and \{tests/auto/qchar\}
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\list
  \li qtbase/src/corelib/Qt5CoreMacros.cmake
  \li qtbase/src/dbus/Qt5DBusMacros.cmake
  \li qtbase/src/widgets/Qt5WidgetsMacros.cmake
  \li qtools/src/linguist/Qt5LinguistToolsMacros.cmake
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\section{1} The PCRE library

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\list
\item The PCRE library in \c{qtbase/src/3rdparty/pcre}
\endlist

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\list
\item \c{tests/benchmarks/script/v8/tests/richards.js}
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\list
\item \c{tests/benchmarks/script/sunspider/tests/3d-morph.js}
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\c {qtbase/src/3rdparty/freebsd/strtoull.c}

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Changes to the original implementation:
\list
\li Move base types from template_util.h directly into qtypetraits.h
\li Use Qt macros for long long type differences on Windows.
\li Enclose in QtPrivate namespace.
\endlist

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See also the files in `qtbase/src/3rdparty/harfbuzz`, which are used by FreeType.

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\list
\li Parts of the FreeType library
\endlist

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\e{This is HarfBuzz, an OpenType Layout engine library.}
-- quoted from \c qtbase/src/3rdparty/harfbuzz/README.

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\section1 JasPer (libjasper) version 2.0

\e {JasPer is a collection of software (i.e., a library and application programs) for the coding and manipulation of images.}

\badcode
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See \c qtimageformats/src/3rdparty/jasper/LICENSE.

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MD4 (md4.cpp and md4.h)

MD (RFC-1320) message digest.
Modified from MD5 code by Andrey Panin <pazke@donpac.ru>

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Mesa 3D Graphics Library

Mesa is a 3-D graphics library with an API which is very similar to that of OpenGL.

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MNG Library (libmng) version 1.0.10

The libmng library supports decoding, displaying, encoding, and various other manipulations of the Multiple-image Network Graphics (MNG) format image files. It uses the zlib compression library, and optionally the JPEG library by the Independent JPEG Group (IJG) and/or lcms (little cms), a color-management library by Marti Maria Saguer. -- quoted from qtimageformats/src/3rdparty/libmng/doc/libmng.txt
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Glenn Randers-Pehrson
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\section1 SHA-1 (sha1.cpp)

\{Based on the public domain implementation of the SHA-1 algorithm\}
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See qtbase/src/3rdparty/sha1/sha1.cpp for more information about the terms and conditions under which the code is supplied.

SHA-3, originally known as Keccak

SHA-3, originally known as Keccak, is a cryptographic hash function designed by Guido Bertoni, Joan Daemen, Michal Peeters, and Gilles Van Assche, building upon RadioGatn.

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-- quoted from qtbase/src/3rdparty/sha3/brg_endian.h

SQLite (sqlite) version 3.8.5.0

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\section{TIFF Software Distribution (libtiff) version 3.9.2}

\section*{libtiff}

libtiff is a set of C functions (a library) that support the manipulation of TIFF image files.

-- quoted from qtimageformats/src/libtiff/html/libtiff.html

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See `qtimageformats/src/3rdparty/libtiff/README` for license details.

Three.js Loader

A parser for loading 3D models from JSON data structures.

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-- quoted from `c qtcanvas3d/3rdparty/ThreeJSLoader.js

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=====================================================================
\endcode
\section{gl-matrix.js version 2.2.2}

High performance matrix and vector operations.

\badcode
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--quoted from `qtcanvas3d/3rdparty/gl-matrix.js`

\section{Wintab API (wintab)}

Wintab is a de facto API for pointing devices on Windows. The wintab code is from \[http://www.pointing.com/WINTAB.HTM]\).

See `qtbase/src/3rdparty/wintab/wintab.h` for license details.

\section{Data Compression Library (zlib) version 1.2.5}

`zlib` is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 -- quoted from `qtbase/src/3rdparty/zlib/README`.

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See `qtscript/src/3rdparty/javascriptcore/JavaScriptCore/wtf/dtoa.cpp` for license details.

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\section1 Pixman (pixman) version 0.17.11

\textit{pixman is a library that provides low-level pixel manipulation
features such as image compositing and trapezoid rasterization.} -- quoted
from \texttt{qtbase/src/3rdparty/pixman/README}

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See `qtbase/src/3rdparty/pixman/pixman-arm-neon-asm.h` and `qtbase/src/3rdparty/pixman/pixman-arm-neon-asm.S`

\section{WebCore (WebKit)}

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See `qtbase/src/corelib/io/qurltlds_p.h.INFO` for more information about how the list is used.

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- a technique for including multiple character sets in a single character encoding system, and
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ISO-2022-JP is a widely used encoding for Japanese.

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Extended Unix Code (EUC) is a multibyte character encoding system used...
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KR is a variable-width encoding to represent Korean text using two coded character sets, KS X 1001 and KS X 1003.

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GBK is an extension of the GB2312 character set for simplified Chinese characters, used in the People's Republic of China. GB is the abbreviation of Guojia Biaozhun (国家标准), which means national standard in Chinese, while K stands for Extension ("Kuozhan"). GBK not only extended the old standard GB2312 with Traditional Chinese characters, but also with Chinese characters that were simplified after the establishment of GB2312 in 1981. With the arrival of GBK, certain names with characters formerly unrepresentable, like the "rong" (рон) character in former Chinese Premier Zhu Rongji's name, are now representable.

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\section{Big5 Text Codec}

Big5, or BIG-5, is a Chinese character encoding method used in Taiwan, Hong Kong, and Macau for Traditional Chinese characters. Mainland China, which uses Simplified Chinese Characters, uses the GB character set instead.

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\section{Bison Parser 2.3a}

A Bison parser, made by GNU Bison 2.3a.

Skeleton implementation for Bison's Yacc-like parsers in C


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The TSCII codec provides conversion to and from the Tamil TSCII encoding.

TSCII, formally the Tamil Standard Code Information Interchange specification,
is a commonly used charset for Tamils.

This codec uses the mapping table found at http://www.geocities.com/Athens/5180/tsciiset.html.
Tamil uses composed Unicode which might cause some problems if you are using
Unicode fonts instead of TSCII fonts.

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\section1 Callgrind

Callgrind, an extension to Cachegrind created by Josef Weidendorfer which produces more information about callgraphs. It was folded into the mainline
version of Valgrind in version 3.2.0. KCacheGrind is capable of visualizing output from Callgrind as well as CacheGrind.

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BlueZ - Bluetooth protocol stack for Linux

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-- used by qtconnectivity/src/sdpscanner

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\section1 Easing Equations

\{Easing Equations is a collection of swappable functions that add flavor to motion.\}

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-- quoted from qtbase/src/3rdparty/easing/easing.cpp

\hr
\section1 xkbcommon

\{xkbcommon is a library to handle keyboard descriptions, including loading them from disk, parsing them and handling their state. It's mainly meant for client toolkits, window systems, and other system applications\}
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-- quoted from libxkbcommon.0.3.1.tar.xz, the latest package available on xkbcommon.org

\section{Clucene Core Library}

\section*{CLucene is a C++ port of Lucene. It is a high-performance, full-featured text search engine written in C++. CLucene is faster than lucene as it is written in C++.}

-- quoted from qttools/src/assistant/3rdparty/clucene/README.

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\section{Wayland Protocol}

\badcode

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\section{WebP (libwebp) version 0.4.3}

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\section{V8 double/string conversion library}

Library for binary-decimal and decimal-binary conversion routines for
IEEE doubles.

\badcode
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1.119 std135_lia 1.3.9

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1.120 sudo 1.8.20p2

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ignore
scl/syslogconf/convert-syslogconf.awk

\*/\*am$

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lib/ivykis

lib/jsonc

modules/afamqp/rabbitmq-c

modules/afmongodb/mongo-c-driver

modules/java/org_syslog_ng_\[^./_\-]+\.h$

modules/(afmongodb|afamqp)/dummy\.|c$

dev-utils/plugin_skeleton_creator/plugin_template.*

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scl/syslog-ng\.conf$

tests/copyright/policy$

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\(\.+\)?Makefile$

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
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* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.123 sysvinit-inittab 2.88dsf

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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1.129 u-boot 2011.12

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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
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 *
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