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1.3 activation 1.1.1

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```

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```

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Ty Coon, President of Vice
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1.4 ajaxterm4j 1.7

1.5 ajaxterm4j-trilead-ssh 1.7

1.6 akka-actor_2.10 2.3.15

1.7 angular 1.6.9

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1.8 angular-animate 1.6.6

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1.10 angular-awesome-slider 2.4.4

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1.11 angular-bootstrap 0.12.1

1.12 angular-bootstrap 0.13.0

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1.16 angular-filter 0.5.11

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1.17 angular-google-maps 2.0.6

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1.19 angular-input-match 1.4.0

1.20 angular-leaflet-directive 0.7.11

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1.21 angular-material 1.1.1

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1.22 angular-messages 1.5.8

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1.23 angular-mocks 1.5.8

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1.24 angular-resource 1.3.4

1.25 angular-route 1.3.4

1.26 angular-sanitize 1.3.4

1.26.1 Available under license :

packaged angular-sanitize

This repo is for distribution on `npm` and `bower`. The source for this module is in the [main AngularJS repo](<https://github.com/angular/angular.js/tree/master/src/ngSanitize>). Please file issues and pull requests against that repo.

Install

You can install this package either with `npm` or with `bower`.

npm

```
```shell
npm install angular-sanitize
```
```

Add a ``<script>`` to your `index.html`:

```
```html
<script src="/node_modules/angular-sanitize/angular-sanitize.js"></script>
```
```

Then add `ngSanitize` as a dependency for your app:

```
```javascript
angular.module('myApp', ['ngSanitize']);
```
```

Note that this package is not in CommonJS format, so doing `require('angular-sanitize')` will return `undefined`.

bower

```
```shell
bower install angular-sanitize
```
```

Add a ``<script>`` to your `index.html`:

```
```html
<script src="/bower_components/angular-sanitize/angular-sanitize.js"></script>
```
```

Then add `ngSanitize` as a dependency for your app:

```
```javascript
angular.module('myApp', ['ngSanitize']);
```
```

Documentation

Documentation is available on the
[AngularJS docs site](http://docs.angularjs.org/api/ngSanitize).

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1.28 angular-touch 1.3.4

1.29 angular-ui-ace 0.2.3

1.30 angular-ui-grid 3.2.1

1.31 angular-ui-router 0.4.2

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1.32 angular-ui-select 0.18.1

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1.34 angular-uuid 0.1.0

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1.35 angular-vs-repeat 1.1.7

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1.36 annotations 2.0.1

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1.41 base-files 3.0.14

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1.42 base-passwd 3.5.29

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Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*

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1.43 bash 4.4.12

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1.50 beautifulsoup4 4.4.1 :1

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Upstream-Name: Beautiful Soup
Upstream-Contact: Leonard Richardson <leonardr@segfault.org>
Source: <https://launchpad.net/beautifulsoup>

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1.51 bind 9.11.4

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

Author: Julio Merino <jmmv@users.sourceforge.net>

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
      This Source Code Form is subject to the terms of the Mozilla Public
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      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
          <xsl:text> </xsl:text>
          <xsl:value-of select="holder"/>
          <xsl:value-of select="$isc.copyright.breakline"/>
          <xsl:text>&#10;</xsl:text>
        </xsl:for-each>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>

<!--
```

- Local variables:
- mode: sgml
- End:
-->

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```
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(This file is under construction.) -*- text -*-

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

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

+++++

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

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

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

Ken Raeburn wrote the high-level BFD interface code to replace most of

the code in format-specific I/O modules.

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete

Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

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

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

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

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

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

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

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

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

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Version 2.1, February 1999

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1.56 bootstrap 3.3.1

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1.57 bootstrap-sass 3.2.0

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1.58 boto3 1.4.4

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1.59 botocore 1.10.84

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```
{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
```

Botocore includes a vendorized copy of the requests python library to ease installation.

Requests License

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```
<AddPermissionResponse xmlns="http://sns.amazonaws.com/doc/2010-03-31/">
```

```
<ResponseMetadata>
```

```
<RequestId>6a213e4e-33a8-11df-9540-99d0768312d3</RequestId>
```

```
</ResponseMetadata>
```

```
</AddPermissionResponse>
```

```
<AddPermissionResponse xmlns="http://queue.amazonaws.com/doc/2012-11-05/">
```

```
<ResponseMetadata>
```

```
<RequestId>9a285199-c8d6-47c2-bdb2-314cb47d599d</RequestId>
```

```
</ResponseMetadata>
```

```
</AddPermissionResponse>
```

```
{
```

```
  "ResponseMetadata": {
```

```
    "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
```

```
  }
```

```
}
```

```
{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
```

1.60 bourbon 3.2.1 3.2.1

1.61 bridge-utils 1.6

1.61.1 Available under license :

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1.62 build-helper-maven-plugin 1.12

1.63 busybox 1.27.2 :6

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.64 bzip2 1.0.6

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1.65 c-ares 1.12.0

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1.66 c3p0 0.9.5.2

1.67 ca-certificates 20170717

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1.68 certifi 2018.1.18

1.68.1 Available under license :

This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

Metadata-Version: 1.1
Name: certifi
Version: 2018.1.18
Summary: Python package for providing Mozilla's CA Bundle.
Home-page: <http://certifi.io/>
Author: Kenneth Reitz
Author-email: me@kennethreitz.com
License: MPL-2.0
Description: Certifi: Python SSL Certificates

=====

`Certifi`_ is a carefully curated collection of Root Certificates for validating the trustworthiness of SSL certificates while verifying the identity of TLS hosts. It has been extracted from the `Requests`_ project.

Installation

`certifi` is available on PyPI. Simply install it with `pip`::

```
$ pip install certifi
```

Usage

To reference the installed certificate authority (CA) bundle, you can use the built-in function::

```
>>> import certifi

>>> certifi.where()
'/usr/local/lib/python2.7/site-packages/certifi/cacert.pem'
```

Enjoy!

1024-bit Root Certificates

~~~~~

Browsers and certificate authorities have concluded that 1024-bit keys are unacceptably weak for certificates, particularly root certificates. For this reason, Mozilla has removed any weak (i.e. 1024-bit key) certificate from its bundle, replacing it with an equivalent strong (i.e. 2048-bit or greater key) certificate from the same CA. Because Mozilla removed these certificates from its bundle, `certifi` removed them as well.

In previous versions, `certifi` provided the `certifi.old\_where()` function to intentionally re-add the 1024-bit roots back into your bundle. This was not recommended in production and therefore was removed. To assist in migrating old

code, the function `certifi.old_where()` continues to exist as an alias of `certifi.where()`. Please update your code to use `certifi.where()` instead. `certifi.old_where()` will be removed in 2018.

```
.. _`Certifi`: http://certifi.io/en/latest/  
.. _`Requests`: http://docs.python-requests.org/en/latest/
```

Platform: UNKNOWN

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Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

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Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

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

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with `curl` / `libcurl` / `php_curl`, or with an Apache+`mod_ssl` webserver for SSL client authentication.

Just configure this file as the `SSLCACertificateFile`.#

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## 1.69 cffi 1.11.5

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## 1.71 cgroup-lite 1.11 :ubuntu14.04.2

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## 1.73 cloud-init 0.7.6

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Name: cloud-init  
Maintainer: Scott Moser <[scott.moser@canonical.com](mailto:scott.moser@canonical.com)>  
Source: <https://launchpad.net/cloud-init>

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src/test/resources/CSVFileParser/test\_rfc4180\_trim.txt

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## 1.85 commons-io 2.4

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## 1.90 concurrentlinkedhashmap-lru 1.4.1

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## 1.95 containerd 1.0.2

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Gocheck - A rich testing framework for Go

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Gocheck - A rich testing framework for Go

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# 1.96 containerd 1.0.2

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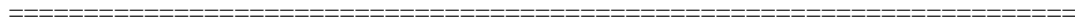
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## 1.97 coreutils 8.29

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# 1.100 curator-framework 2.11.1

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## 1.102 curl 7.58.0

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=====

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## libcurl

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## OpenSSL

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## GnuTLS

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# 1.103 curl 7.35.0

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=====

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

yassl <http://www.yassl.com/>

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(Used for asynchronous name resolves) Uses an MIT license that is very

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zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

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

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

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

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

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fbopenssl

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

libidn <http://josefsson.org/libidn/>

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libssh2 <http://www.libssh2.org/>

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<http://www.mozilla.org/MPL/>

## 1.104 dagger 2.7

## 1.105 dagger-compiler 2.7

### 1.105.1 Available under license :

```
.H)org/eclipse/text/edits/CopyingRangeMarkerorg/eclipse/text/edits/TextEditCopyingRangeMarker.javaafTextLjava/lang/String;<init>(II)V
```

```
this+Lorg/eclipse/text/edits/CopyingRangeMarker;offsetIlength.(Lorg/eclipse/text/edits/CopyingRangeMarker;)V$(Lorg/eclipse/text/edits/TextEdit;)V
```

```
otherdoCopy#(Lorg/eclipse/text/edits/TextEdit;
```

```
accept0+(Lorg/eclipse/text/edits/TextEditVisitor;)V&org/eclipse/text/edits/TextEditVisitorvisit.(Lorg/eclipse/text/edits/CopyingRangeMarker;)Z !
```

```
"acceptChildren$
```

```
%visitor(Lorg/eclipse/text/edits/TextEditVisitor;
```

```
visitChildrenZperformDocumentUpdating%(Lorg/eclipse/jface/text/IDocument;)I+org/eclipse/jface/text/BadLocationException- getOffset()/I/O
```

```
1 getLength30
```

```
4 org/eclipse/jface/text/IDocument6get(II)Ljava/lang/String;897:fDelta<
```

```
=document"Lorg/eclipse/jface/text/IDocument;deleteChildren()ZCodeLocalVariableTableLineNumberTable
```

```
Exceptions
```

```
SourceFile1 CI*D
```

```
E
```

```
#$CJ*+*+D
```

```
E*+
```



,C3 Y\*D  
E2CZ+\*#=\*+&D  
'(  
)\*E9:  
;=+,CX\*+\*2\*5;\*>\*>D  
?@ECDEF.ABC,D  
ELG

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## 1.106 db 5.3.28 :r0

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## 1.109 disruptor 3.3.6

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# 1.110 django 1.11.15

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

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=====  
Advice for new contributors  
=====

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

If you are new to contributing to Django, the `:doc:`/intro/contributing`` tutorial will give you an introduction to the tools and the workflow.

First steps  
=====

Start with these easy tasks to discover Django's development process.

**\*\*Sign the Contributor License Agreement\*\***

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the ``CLA`_`. See the ``Contributor License Agreement FAQ`_` for a more thorough explanation.

**\*\*Triage tickets\*\***

If an ``unreviewed ticket`_` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's

behavior, even if you don't fix the bug itself. See more at  
:ref:`how-can-i-help-with-triaging`

\* \*\*Look for tickets that are accepted and review patches to build familiarity with the codebase and the process\*\*

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

\* \*\*Keep old patches up to date\*\*

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

\* \*\*Write some documentation\*\*

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

The `reports page`\_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. \_reports page: <https://code.djangoproject.com/wiki/Reports>

.. \_CLA: <https://www.djangoproject.com/foundation/cla/>

.. \_Contributor License Agreement FAQ: <https://www.djangoproject.com/foundation/cla/faq/>

.. \_unreviewed ticket: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

## Guidelines

=====

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

\* \*\*Pick a subject area that you care about, that you are familiar with, or that you want to learn about\*\*

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

\* \*\*Analyze tickets' context and history\*\*

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

\* \*\*Start small\*\*

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

\* \*\*If you're going to engage in a big task, make sure that your idea has support first\*\*

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

\* \*\*Be bold! Leave feedback!\*\*

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without *you*!

\* \*\*Err on the side of caution when marking things Ready For Check-in\*\*

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

\* \*\*Wait for feedback, and respond to feedback that you receive\*\*

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

\* \*\*Be rigorous\*\*

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. \_easy pickings: <https://code.djangoproject.com/query?status=!closed&easy=1>

.. \_new-contributors-faq:

## FAQ

===

1. **\*\*This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?\***

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the `|django-developers|` mailing list asking for review on the ticket, or to bring it up in the ``#django-dev`` IRC channel.

2. **\*\*I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?\***

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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<https://github.com/twbs/bootstrap/>

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```
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```

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```
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```

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```
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```

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

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## 1.116 dnsmasq 2.79



## 1.116.1 Available under license :

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Version 2, June 1991

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```

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

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

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```
# dnsmasq is Copyright (c) 2000-2016 Simon Kelley
#
# This program is free software; you can redistribute it and/or modify
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#
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# along with this program. If not, see <http://www.gnu.org/licenses/>.
```

```
# NOTE: Building the i18n targets requires GNU-make
```

```
# Variables you may well want to override.
```

```
PREFIX    = /usr/local
BINDIR    = $(PREFIX)/sbin
MANDIR    = $(PREFIX)/share/man
LOCALEDIR = $(PREFIX)/share/locale
BUILDDIR  = $(SRC)
DESTDIR   =
CFLAGS    = -Wall -W -O2
LDFLAGS   =
COPTS     =
RPM_OPT_FLAGS =
LIBS      =
```

```
#####
```

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

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

```
SRC = src
```



PO = po  
MAN = man

#####

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

top!=pwd

# GNU make way.

top?=\$(CURDIR)

dbus\_cflags = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_DBUS \$(PKG\_CONFIG) --cflags dbus-1`

dbus\_libs = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_DBUS \$(PKG\_CONFIG) --libs dbus-1`

idn\_cflags = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_IDN \$(PKG\_CONFIG) --cflags libidn`

idn\_libs = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_IDN \$(PKG\_CONFIG) --libs libidn`

idn2\_cflags = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_LIBIDN2 \$(PKG\_CONFIG) --cflags libidn2`

idn2\_libs = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_LIBIDN2 \$(PKG\_CONFIG) --libs libidn2`

ct\_cflags = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_CONNTRACK \$(PKG\_CONFIG) --cflags

libnetfilter\_conntrack`

ct\_libs = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_CONNTRACK \$(PKG\_CONFIG) --libs

libnetfilter\_conntrack`

lua\_cflags = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_LUASCRIPT \$(PKG\_CONFIG) --cflags lua5.2`

lua\_libs = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_LUASCRIPT \$(PKG\_CONFIG) --libs lua5.2`

nettle\_cflags = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_DNSSEC \$(PKG\_CONFIG) --cflags nettle

hogweed`

nettle\_libs = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_DNSSEC \$(PKG\_CONFIG) --libs nettle hogweed`

gmp\_libs = `echo \$(COPTS) | \$(top)/bld/pkg-wrapper HAVE\_DNSSEC NO\_GMP --copy -lgmp`

sunos\_libs = `if uname | grep SunOS >/dev/null 2>&1; then echo -lsocket -lnsl -lposix4; fi`

version = -DVERSION="\`\$(top)/bld/get-version \$(top)`\`"

sum?=\$(shell \$(CC) -DDNSMASQ\_COMPILE\_OPTS \$(COPTS) -E \$(top)/\$(SRC)/dnsmasq.h | ( md5sum

2>/dev/null || md5 ) | cut -f 1 -d ' ' )

sum!=\$(CC) -DDNSMASQ\_COMPILE\_OPTS \$(COPTS) -E \$(top)/\$(SRC)/dnsmasq.h | ( md5sum 2>/dev/null ||

md5 ) | cut -f 1 -d ' ' )

copts\_conf = .copts\_\$(sum)

objs = cache.o rfc1035.o util.o option.o forward.o network.o \

dnsmasq.o dhcp.o lease.o rfc2131.o netlink.o dbus.o bpf.o \

helper.o tftp.o log.o conntrack.o dhcp6.o rfc3315.o \

dhcp-common.o outpacket.o radv.o slaac.o auth.o ipset.o \

domain.o dnssec.o blockdata.o tables.o loop.o inotify.o \

poll.o rrfilter.o edns0.o arp.o crypto.o

hdrs = dnsmasq.h config.h dhcp-protocol.h dhcp6-protocol.h \

dns-protocol.h radv-protocol.h ip6addr.h

all : \$(BUILDDIR)

@cd \$(BUILDDIR) && \$(MAKE) \

top="\$(top)" \

```

build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" \
build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)" \
-f $(top)/Makefile dnsmasq

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

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

install : all install-common

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

all-i18n : $(BUILDDIR)
@cd $(BUILDDIR) && $(MAKE) \
top="$(top)" \
i18n=-DLOCALEDIR="\\"$(LOCALEDIR)\\" \
build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" \
build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)" \
-f $(top)/Makefile dnsmasq
for f in `cd $(PO); echo *.po`; do \
cd $(top) && cd $(BUILDDIR) && $(MAKE) top="$(top)" -f $(top)/Makefile $$f%.po.mo; \
done

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

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

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

$(BUILDDIR):

```

```
mkdir -p $(BUILDDIR)
```

```
# rules below are helpers for size tracking
```

```
baseline : mostly_clean all
```

```
@cd $(BUILDDIR) && \
```

```
mv dnsmasq dnsmasq_baseline
```

```
bloatcheck : $(BUILDDIR)/dnsmasq_baseline mostly_clean all
```

```
@cd $(BUILDDIR) && \
```

```
$(top)/bld/bloat-o-meter dnsmasq_baseline dnsmasq; \
```

```
size dnsmasq_baseline dnsmasq
```

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

```
$(copts_conf): $(hdrs)
```

```
@rm -f *.o .copts_*
```

```
@touch $@
```

```
$(objs:.o=.c) $(hdrs):
```

```
ln -s $(top)/$(SRC)/$@ .
```

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

```
.c.o:
```

```
$(CC) $(CFLAGS) $(COPTS) $(i18n) $(build_cflags) $(RPM_OPT_FLAGS) -c $<
```

```
dnsmasq : $(objs)
```

```
$(CC) $(LDFLAGS) -o $@ $(objs) $(build_libs) $(LIBS)
```

```
dnsmasq.pot : $(objs:.o=.c) $(hdrs)
```

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

```
%.mo : $(top)/$(PO)/%.po dnsmasq.pot
```

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

```
.PHONY : all clean mostly_clean install install-common all-i18n install-i18n merge baseline bloatcheck
```

```
/* dnsmasq is Copyright (c) 2000-2018 Simon Kelley
```

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\*/

```
#include "dnsmasq.h"
```

```
/* Time between forced re-loads from kernel. */
```

```
#define INTERVAL 90
```

```
#define ARP_MARK 0
```

```
#define ARP_FOUND 1 /* Confirmed */
```

```
#define ARP_NEW 2 /* Newly created */
```

```
#define ARP_EMPTY 3 /* No MAC addr */
```

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

```
static struct arp_record *arps = NULL, *old = NULL, *freelist = NULL;
```

```
static time_t last = 0;
```

```
static int filter_mac(int family, char *addrp, char *mac, size_t maclen, void *parmv)
```

```
{  
    struct arp_record *arp;
```

```
(void)parmv;
```

```
if (maclen > DHCP_CHADDR_MAX)
```

```
    return 1;
```

```
#ifndef HAVE_IPV6
```

```
if (family != AF_INET)
```

```
    return 1;
```

```
#endif
```

```
/* Look for existing entry */
```

```
for (arp = arps; arp; arp = arp->next)
```

```
{  
    if (family != arp->family || arp->status == ARP_NEW)  
        continue;
```

```
    if (family == AF_INET)
```

```
{
```

```

    if (arp->addr.addr.addr4.s_addr != ((struct in_addr *)addrp)->s_addr)
        continue;
    }
#ifdef HAVE_IPV6
    else
    {
        if (!IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, (struct in6_addr *)addrp))
            continue;
        }
#endif

    if (arp->status == ARP_EMPTY)
    {
        /* existing address, was negative. */
        arp->status = ARP_NEW;
        arp->hwlen = maclen;
        memcpy(arp->hwaddr, mac, maclen);
    }
    else if (arp->hwlen == maclen && memcmp(arp->hwaddr, mac, maclen) == 0)
        /* Existing entry matches - confirm. */
        arp->status = ARP_FOUND;
    else
        continue;

    break;
}

if (!arp)
{
    /* New entry */
    if (freelist)
    {
        arp = freelist;
        freelist = freelist->next;
    }
    else if (!(arp = whine_malloc(sizeof(struct arp_record))))
return 1;

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

```

```

memcpy(&arp->addr.addr.addr6, addrp, IN6ADDRSZ);
#endif
}

return 1;
}

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

again:

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

        for (arp = arps; arp; arp = arp->next)
        {
            if (addr->sa.sa_family != arp->family)
                continue;

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

#ifdef HAVE_IPV6
            if (arp->family == AF_INET6 &&
                !IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, &addr->in6.sin6_addr))
                continue;
#endif
        }

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

    /* Not found, try the kernel */

```

```

if (!updated)
{
    updated = 1;
    last = now;

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

    iface_enumerate(AF_UNSPEC, NULL, filter_mac);

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

        if (arp->status == ARP_MARK)
        {
            *up = arp->next;
            arp->next = old;
            old = arp;
        }
        else
            up = &arp->next;
    }

    goto again;
}

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

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

```

```

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

    return 0;
}

int do_arp_script_run(void)
{
    struct arp_record *arp;

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

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

    return 0;
}

```

Q: Why does dnsmasq open UDP ports >1024 as well as port 53.

Is this a security problem/trojan/backdoor?

A: The high ports that dnsmasq opens are for replies from the upstream



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

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

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

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

Q: Why doesn't dnsmasq support DNS queries over TCP? Don't the RFC's specify that?

A: Update: from version 2.10, it does. There are a few limitations: data obtained via TCP is not cached, and source-address or query-port specifications are ignored for TCP.

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

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

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

A: Yes, there is explicit support for \*BSD and MacOS X and Solaris. There are start-up scripts for MacOS X Tiger and Panther in /contrib. Dnsmasq will link with uclibc to provide small

binaries suitable for use in embedded systems such as routers. (There's special code to support machines with flash filesystems and no battery-backed RTC.)

If you encounter make errors with \*BSD, try installing gmake from ports and building dnsmasq with "make MAKE=gmake"

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

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

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

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

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

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

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

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

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

on all platforms.

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

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

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

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

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

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

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

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

A: [note: this was written in September 2003, things may well change.] Verisign run the .com and .net top-level-domains. They have just changed the configuration of their servers so that unknown .com and

.net domains, instead of returning an error code NXDOMAIN, (no such domain) return the address of a host at Verisign which runs a web server showing a search page. Most right-thinking people regard this new behaviour as broken :-). You can test to see if you are suffering Verisign brokenness by run a command like

```
host jlsdajkdalld.com
```

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

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

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

Q: This new DHCP server is well and good, but it doesn't work for me. What's the problem?

A: There are a couple of configuration gotchas which have been encountered by people moving from the ISC dhcpd to the dnsmasq integrated DHCP daemon. Both are related to differences in the way the two daemons bypass the IP stack to do "ground up" IP configuration and can lead to the dnsmasq daemon failing whilst the ISC one works.

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

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

address 0.0.0.0 and destination address 255.255.255.255 are not dropped by iptables/ipchains.

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

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

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

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

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

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

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

A: Dnsmasq from v2.63 can operate in one of three different "networking modes". This is unfortunate as it requires users configuring dnsmasq to take into account some rather bizarre constraints and select the mode which best fits the requirements of a particular installation.

The origin of these are deficiencies in the Unix networking model and APIs and each mode has different advantages and problems. Just to add to the confusion, not all modes are available on all platforms (due the to lack of supporting network APIs).To further add to the confusion, the rules for the DHCP subsystem on dnsmasq are different to the rules for the DNS and TFTP subsystems.

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

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

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

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

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

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

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

a request will be ignored, in bind-interfaces mode, it will be accepted.

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

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

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

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

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

A: Yes, new releases of dnsmasq are always announced through [freshmeat.net](http://freshmeat.net), and they allow you to subscribe to email alerts when new versions of particular projects are released. New releases are also announced in the dnsmasq-discuss mailing list, subscribe at <http://lists.thekelleys.org.uk/mailman/listinfo/dnsmasq-discuss>

Q: What does the dhcp-authoritative option do?

A: The DHCP spec says that when a DHCP server receives a renewal request from a client it has no knowledge of, it should just ignore it.

This is because it's supported to have more than one DHCP server on a network, and another DHCP server may be dealing with the client.

This has the unfortunate effect that when \_no\_ DHCP replies to the client, it takes some time for the client to time-out and start to get a new lease. Setting this option makes dnsmasq violate the standard to the extent that it will send a NAK reply to the client, causing it to immediately start to get a new lease. This improves behaviour when machines move networks, and in the case that the DHCP lease database is lost. As long as there are not more than one DHCP server on the network, it's safe to enable the option.

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

A: Because when a Gentoo box shuts down, it releases its lease with the server but remembers it on the client; this seems to be a

Gentoo-specific patch to dhcpcd. On restart it tries to renew a lease which is long gone, as far as dnsmasq is concerned, and dnsmasq ignores it until its times out and restarts the process. To fix this, set the dhcp-authoritative flag in dnsmasq.

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

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

Addendum:

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

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

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

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

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

The DhcpClientIdentifier is a REG\_DWORD value that is located at:

Windows NT 4.0 SP2+



HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Services\

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

Windows 2000

HKEY\_LOCAL\_MACHINE\System\CurrentControlSet\Services\TcpIp\Parameters\Interfaces\

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

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

| Custom Client Identifier | Client Reservation on DHCP Server |
|--------------------------|-----------------------------------|
| 12345678                 | 78563412                          |
| 123456                   | 56341200                          |
| 1234                     | 34120000                          |
| 1234567                  | 67452301                          |
| 12345                    | 45230100                          |
| 123                      | 23010000                          |
| A18F42                   | 428FA100                          |
| CF432                    | 32F40C00                          |
| C32D1BE                  | BED1320C                          |

-----  
Q: Can dnsmasq do DHCP on IP-alias interfaces?

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

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

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

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

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

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

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

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

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

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

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

A: Change your kernel configuration: either deselect CONFIG\_SECURITY\_or\_select CONFIG\_SECURITY\_CAPABILITIES. Alternatively, you can remove the need to set capabilities by running dnsmasq as root.

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

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

Q: Can I run dnsmasq in a Linux vserver?

A: Yes, as a DNS server, dnsmasq will just work in a vserver. To use dnsmasq's DHCP function you need to give the vserver extra system capabilities. Please note that doing so will lesser the overall security of your system. The capabilities required are NET\_ADMIN and NET\_RAW. NET\_ADMIN is essential, NET\_RAW is required to do an ICMP "ping" check on newly allocated addresses. If you don't need this check, you can disable it with --no-ping and omit the NET\_RAW capability. Adding the capabilities is done by adding them, one per line, to either /etc/vservers/<vservname>/ccapabilities for a 2.4 kernel or /etc/vservers/<vservname>/bcapabilities for a 2.6 kernel (please refer to the vserver documentation for more information).

Q: What's the problem with syslog and dnsmasq?

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

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

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

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

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

```
dhcp-option=252,""
```

## 1.117 docker 18.03.0 :r0

### 1.117.1 Available under license :

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package spec

// License information for the exposed API.

//

// For more information: <http://goo.gl/8us55a#licenseObject>

type License struct {

    Name string `json:"name,omitempty"`

    URL string `json:"url,omitempty"`

}

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

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<https://github.com/golang/protobuf>

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/\* io.h - Virtual disk input/output

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\*/

/\* FAT32, VFAT, Atari format support, and various fixes additions May 1998

\* by Roman Hodek <[Roman.Hodek@informatik.uni-erlangen.de](mailto:Roman.Hodek@informatik.uni-erlangen.de)> \*/

# 1.119 DPK 2.2.0

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

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



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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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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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#

# 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) \
`echo $(my_dir) | sed -e 's/lib/;"/$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

Gadi Oxman, August 1995

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```

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# 1.123 eddsa 0.3.0-sources

## 1.124 efitools

1.7.0+git0649468475d20d8ca5634433c491246

7cef3ce93

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

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

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

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

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

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

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

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

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

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

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

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

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For an executable, the required form of the "work that uses the

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

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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.

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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

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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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- 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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efitools - useful tools for manipulating UEFI secure boot platforms

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#
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#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
```

```
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/inftutil.c
src/gzip/inftutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/frandom/frandom.c
#
# EOF
```

## 1.139 ganymed-ssh2 262

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## 1.140 gcc 8.2.0

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

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

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

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```
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@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
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
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@c This file is intended to be included in another file.
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#### 2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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

@end display

@appendixsubsec Preamble



The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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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.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and

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

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

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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

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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.

@item

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

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

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

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

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

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

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

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

directing the user to the copy of this License. Also, you must do one of these things:

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

@item

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

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@item

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@item

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

@end enumerate

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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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@heading END OF TERMS AND CONDITIONS

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@center END OF TERMS AND CONDITIONS

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@page

@appendixsubsec 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.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end smallexample

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

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

```
@smallexample
```

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

```
@var{signature of Ty Coon}, 1 April 1990
```

```
Ty Coon, President of Vice
```

```
@end smallexample
```

That's all there is to it!

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Version 2, June 1991

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

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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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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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```
#!/usr/bin/python
#
# Copyright (C) 2013-2018 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --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.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.
```

```
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',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'letsugar.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

```

```

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    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]|\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 + '|' + name)

    # Matches a full copyright notice:
    self.copyright_re = re.compile (
        # 1: 'Copyright (C)', etc.

```

```

'([Cc]opyright'
'[Cc]opyright\s+\([Cc]\)'
'[Cc]opyright\s+%s'
'[Cc]opyright\s+&copy;'
'[Cc]opyright\s+@copyright{ }'
'copyright = u\"
'@set\s+copyright[\w-]+)'

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'\s*(?:' + ranges + ',?)'
'|@value\{[^\{]*\}\s*)'

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

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

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

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

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

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

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

```

```

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

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

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

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

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)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                    file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                       'unrecognised copyright: %s'
                                       % line.strip())
            lines.append (line)
            line = next_line

# If something changed, write the new file out.

```

```

if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
        os.fchmod (file.fileno(), mode)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

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

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

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

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

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

    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

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

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

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        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:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)

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

    self.skip_files |= set ([
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set ([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
    ])

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

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

    self.fossilised_files |= set ([
        # Old news won't be updated.

```

```

        'ONEWS',
    ])

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

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

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
            return True
        return GenericFilter.skip_file (self, dir, filename)

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

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

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

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

```

```

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

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

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

self.skip_dirs |= set ([
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
])

self.own_files |= set ([
    # Contains markup around the copyright owner.
    'spine.xml',
])

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

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

    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', 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 ('Intel Corporation')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author ('National Research Council of Canada.')
self.add_external_author ('NVIDIA Corporation')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

```

```

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # Boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestSuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')

```

```

self.add_dir ('libbacktrace')
self.add_dir ('libcc1')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
# libgo is imported from upstream.
self.add_dir ('libgomp')
self.add_dir ('libhsail-rt')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

```

GCCcmdLine().main()

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@item Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively 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.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see [@url{http://www.gnu.org/licenses/}](http://www.gnu.org/licenses/).  
@end smallexample

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:

```
@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample
```

The hypothetical commands `@samp{show w}` and `@samp{show c}` should show the appropriate parts of the General Public License. Of course, 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. For more information on this, and how to apply and follow the GNU GPL, see [@url{http://www.gnu.org/licenses/}](http://www.gnu.org/licenses/).

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read [@url{http://www.gnu.org/philosophy/why-not-lgpl.html}](http://www.gnu.org/philosophy/why-not-lgpl.html).

```
@c man end
.\" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
.\"
.\" Standard preamble:
.\" =====
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \" Begin verbatim text
```

```

.ft CW
.nf
.ne \\$1
..
.de Ve \" End verbatim text
.ft R
.fi
..
.\" Set up some character translations and predefined strings. \*(- will
.\" give an unbreakable dash, \*(PI will give pi, \*(L\" will give a left
.\" double quote, and \*(R\" will give a right double quote. \*(C+ will
.\" give a nicer C++. Capital omega is used to do unbreakable dashes and
.\" therefore won't be available. \*(C` and \*(C' expand to ` in nroff,
.\" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-.1v'h'-1p\s-2+\h'-1p'+\s0\v'.1v'h'-1p'
.ie n {\
. ds -- \(*W-
. ds PI pi
. if (\n(.H=4u)&(1m=24u) .ds -- \(*W'h'-12u\"(\*W'h'-12u'-\" diablo 10 pitch
. if (\n(.H=4u)&(1m=20u) .ds -- \(*W'h'-12u\"(\*W'h'-8u'-\" diablo 12 pitch
. ds L\" ""
. ds R\" ""
. ds C` ""
. ds C' ""
}br\}
.el{\
. ds -- \\(em\
. ds PI \(*p
. ds L\" ``
. ds 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'.
.de IX
..
.if !\nF .nr F 0

```

```

.if \nF>0 \{\
. de IX
. tm Index:\$1\t\n%t"\$2"
..
. if !\nF==2 \{\
. nr % 0
. nr F 2
. \}
.\}
.\}
.\}
.\}
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
. \" fudge factors for nroff and troff
.if n \{\
. ds #H 0
. ds #V .8m
. ds #F .3m
. ds #[ \f1
. ds #] \fP
.\}
.if t \{\
. ds #H ((1u-(\\n(.fu%2u))*).13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n \{\
. ds ' \&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t \{\
. ds ' \k:h'-(\n(.wu*8/10-*(#H)^\h"\n:u"
. ds ` \k:h'-(\n(.wu*8/10-*(#H)^\h'\n:u'
. ds ^ \k:h'-(\n(.wu*10/11-*(#H)^\h'\n:u'
. ds , \k:h'-(\n(.wu*8/10),h'\n:u'
. ds ~ \k:h'-(\n(.wu-*(#H-.1m)~\h'\n:u'
. ds / \k:h'-(\n(.wu*8/10-*(#H)^\z\slh'\n:u'
.\}
. \" troff and (daisy-wheel) nroff accents
.ds : \k:h'-(\n(.wu*8/10-*(#H+.1m+*(#F)\v'-*(#V)\z.h'.2m+*(#F'.h'\n:u\v'*(#V'
.ds 8 \h'*(#H\(*b)h'-*(#H'
.ds o \k:h'-(\n(.wu+|w|(de'u-*(#H)/2u\v'-.3n\*(#[z|(de\v'.3n'h'\n:u'*(#)

```

```

.ds d- \h'*(#H)\(pd|h'-\w'~\u'v'-.25m'\f2\(\hy\fp|v'.25m'\h'-\*(#H'
.ds D- D\k:\h'-\w'D'u'v'.11m'z\(\hy|v'.11m'\h'|\n:u'
.ds th \*(#[v'.3m'\s+1I\s-1|v'-.3m'\h'-(\w'T'u*2/3)\s-1o\s+1\*(#)
.ds Th \*(#[\s+2I\s-2|h'-\w'T'u*3/5|v'-.3m'o|v'.3m'\*(#)
.ds ae a|h'-(\w'a'u*4/10)'e
.ds Ae A|h'-(\w'A'u*4/10)'E
. \ " corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-\*(#H)\s-2|u~\d|s+2|h'|\n:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-\*(#H)\v'-.4m'^|v'.4m'\h'|\n:u'
. \ " for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
\{
. ds : e
. ds 8 ss
. ds o a
. ds d- d|h'-1\(\ga
. ds D- D|h'-1\(\hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\" =====
.\"
.IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
.\" For nroff, turn off justification. Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\& Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
\&
\& Everyone is permitted to copy and distribute verbatim copies of this
\& license document, but changing it is not allowed.
.Ve
.SS "Preamble"
.IX Subsection "Preamble"
The \s-1GNU\s0 General Public License is a free, copyleft license for

```

software and other kinds of works.

.PP

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the \s-1GNU\s0 General Public License is intended to guarantee your freedom to share and change all versions of a program\\*(-to make sure it remains free software for all its users. We, the Free Software Foundation, use the \s-1GNU\s0 General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

.PP

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

.PP

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

.PP

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.PP

Developers that use the \s-1GNU GPL\s0 protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

.PP

For the developers' and authors' protection, the \s-1GPL\s0 clearly explains that there is no warranty for this free software. For both users' and authors' sake, the \s-1GPL\s0 requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

.PP

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the \s-1GPL\s0 to prohibit the practice for those products. If such problems arise substantially in



other domains, we stand ready to extend this provision to those domains in future versions of the \s-1GPL,\s0 as needed to protect the freedom of users.

.PP

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the \s-1GPL\s0 assures that patents cannot be used to render the program non-free.

.PP

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

.SS "\s-1TERMS AND CONDITIONS\s0"

.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

\&\\*(L"This License\\*(R" refers to version 3 of the \s-1GNU\s0 General Public License.

.Sp

\&\\*(L"Copyright\\*(R" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

.Sp

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

.Sp

To \\*(L"modify\\*(R" 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 \\*(L"modified version\\*(R" of the earlier work or a work \\*(L"based on\\*(R" the earlier work.

.Sp

A \\*(L"covered work\\*(R" means either the unmodified Program or a work based on the Program.

.Sp

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

.Sp

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

.Sp

An interactive user interface displays \\*(L"Appropriate Legal Notices\\*(R" to the extent that it includes a convenient and prominently visible

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

.IP "1. Source Code." 4

.IX Item "1. Source Code."

The `\*(L"source code\*(R"` for a work means the preferred form of the work for making modifications to it. `\*(L"Object code\*(R"` means any non-source form of a work.

.Sp

A `\*(L"Standard Interface\*(R"` 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.

.Sp

The `\*(L"System Libraries\*(R"` 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 `\&\*(L"Major Component\*(R"`, 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.

.Sp

The `\*(L"Corresponding Source\*(R"` 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.

.Sp

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

.Sp

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

.IP "2. Basic Permissions." 4

.IX Item "2. Basic Permissions."

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.Sp

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4

.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the \s-1WIPO\s0 copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

.Sp

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

.IP "4. Conveying Verbatim Copies." 4

.IX Item "4. Conveying Verbatim Copies."

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

.Sp

You may charge any price or no price for each copy that you convey,

and you may offer support or warranty protection for a fee.

.IP "5. Conveying Modified Source Versions." 4

.IX Item "5. Conveying Modified Source Versions."

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

.RS 4

.IP "a." 4

.IX Item "a."

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

.IP "b." 4

.IX Item "b."

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

.IP "c." 4

.IX Item "c."

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

.IP "d." 4

.IX Item "d."

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

.RE

.RS 4

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

.RE

.IP "6. Conveying Non-Source Forms." 4

.IX Item "6. Conveying Non-Source Forms."

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

.RS 4

.IP "a." 4

.IX Item "a."

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

.IP "b." 4

.IX Item "b."

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

.IP "c." 4

.IX Item "c."

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

.IP "d." 4

.IX Item "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.

.IP "e." 4

.IX Item "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.

.RE

.RS 4

.Sp

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

.Sp

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

.Sp

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

.Sp

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in \s-IROM\s0).

.Sp

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

or violates the rules and protocols for communication across the network.

.Sp

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

.RE

.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

\&\\*(L"Additional permissions\\*(R" are terms that supplement the terms of this License by making exceptions from one or more of its conditions.

Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

.Sp

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

.Sp

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

.RS 4

.IP "a." 4

.IX Item "a."

Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

.IP "b." 4

.IX Item "b."

Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

.IP "c." 4

.IX Item "c."

Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

.IP "d." 4

.IX Item "d."

Limiting the use for publicity purposes of names of licensors or

authors of the material; or

.IP "e." 4

.IX Item "e."

Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

.IP "f." 4

.IX Item "f."

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```
\emph{% (tool)s, The % (name)s Development Environment}
```

```
\emph{% (edition)s}
```

```
\begin{DUlineblock}{0em}  
\item[] Version %(version)s  
\item[] Date: %(date)s  
\end{DUlineblock}
```

AdaCore

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```
/* Definitions for BSD assembler syntax for Intel 386  
(actually AT&T syntax for insns and operands,  
adapted to BSD conventions for symbol names and debugging.)  
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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) \
printf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

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

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

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
printf ((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)), \
printf ((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)), \
printf ((FILE), "%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

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

```

```

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

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

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

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

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

```

-----

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
```

```
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
```

```
charset=UTF-8" /><title>License</title><meta name="generator" content="DocBook XSL Stylesheets Vsnapshot"
```

```
/><meta name="keywords" content="ISO C++, library" /><meta name="keywords" content="ISO C++, runtime,
```

```
library" /><link rel="home" href="../index.html" title="The GNU C++ Library" /><link rel="up" href="status.html"
```

```
title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next"
```

```
href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
```

```
summary="Navigation header"><tr><th colspan="3" align="center">License</th></tr><tr><td width="20%"
```

```
align="left"><a accesskey="p" href="status.html">Prev</a></td><th width="60%"
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```
align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n"
```

```
href="bugs.html">Next</a></td></tr></table><hr /></div><div class="section"><div
```

```
class="titlepage"><div><div><h2 class="title" style="clear: both"><a
```

```
id="manual.intro.status.license"></a>License</h2></div></div></div><p>
```

There are two licenses affecting GNU libstdc++: one for the code, and one for the documentation.

```
</p><p>
```

There is a license section in the FAQ regarding common [questions](#).

If you have more

questions, ask the FSF or the [gcc mailing list](http://gcc.gnu.org/lists.html).

```
</p><div class="section"><div class="titlepage"><div><div><h3 class="title"><a
```

```
id="manual.intro.status.license.gpl"></a>The Code: GPL</h3></div></div></div><p>
```

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with the addition under section 7 of an exception described in

the "GCC Runtime Library Exception, version 3.1"

as follows (or see the file COPYING.RUNTIME):

```
</p><div class="literallayout"><p><br />
```

```
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<br />  
Version 3.1, 31 March 2009 <br />  
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header files and runtime libraries covered by this Exception. <br />  
<br />  
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<br />  
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interface provided by the Runtime Library, but is not otherwise based <br />  
on the Runtime Library. <br />  
<br />  
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<br />  
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target processor architecture, in executable form or suitable for <br />  
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phase. Notwithstanding that, Target Code does not include data in any <br />  
format that is used as a compiler intermediate representation, or used <br />  
for producing a compiler intermediate representation. <br />  
<br />  
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Java Virtual Machine bytecode, into Target Code. Thus, for example, <br />  
use of source code generators and preprocessors need not be considered <br />

partoftheCompilationProcess,sincetheCompilationProcesscanbe  
understoodasstartingwiththeoutputofthegeneratorsor  
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valign="top">Bugs</td></tr></table></div></body></html>
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xml:id="appendix.gfdl-1.3">
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<?dbhtml filename="appendix_gfdl.html"?>
```

```
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```

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```

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The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

</simpara>

<simpara>

In the combination, you must combine any sections Entitled History in the various original documents, forming one section Entitled History; likewise combine any sections Entitled Acknowledgements, and any sections Entitled Dedications. You must delete all sections Entitled

Endorsements.

</simpara>

<bridgehead xml:id="fdl-1-section6" renderas="sect2">

## 6. COLLECTIONS OF DOCUMENTS

</bridgehead>

<simpara>

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

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</simpara>

<bridgehead xml:id="fdl-1-section7" renderas="sect2">

## 7. AGGREGATION WITH INDEPENDENT WORKS

</bridgehead>

<simpara>

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</simpara>

<bridgehead xml:id="fdl-1-section8" renderas="sect2">

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</bridgehead>

<simpara>

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</simpara>

<bridgehead xml:id="fdl-1-section9" renderas="sect2">

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</simpara>

<simpara>

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

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<simpara>

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<bridgehead xml:id="fdl-1-section10" renderas="sect2">

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<bridgehead xml:id="fdl-1-section11" renderas="sect2">

## 11. RELICENSING

</bridgehead>

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<simpara>

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</simpara>

<simpara>

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</simpara>

<simpara>

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</simpara>

<bridgehead xml:id="fdl-1-addendum" renderas="sect2">

ADDENDUM: How to use this License for your documents

</bridgehead>

<simpara>

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</simpara>

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<screen>with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.</screen>

<simpara>

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

</simpara>

<simpara>

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

</simpara>

</appendix>

<appendix xmlns="http://docbook.org/ns/docbook" version="5.0"

xml:id="appendix.gpl-3.0"><info><title>

<acronym>GNU</acronym> General Public License version 3

</title></info>

<?dbhtml filename="appendix\_gpl.html"?>

<para>

Version 3, 29 June 2007

</para>

<para>  
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<para>  
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<bridgehead xml:id="gpl-3-preamble" renderas="sect1">  
Preamble  
</bridgehead>  
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<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="gpl-3-definitions" renderas="sect1">

0. Definitions.

</bridgehead>

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</para>

<para>

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</para>

<para>

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Licensees and recipients may be individuals or organizations.

</para>

<para>

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.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead xml:id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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.

</para>

<para>

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.

</para>

<para>

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.

</para>

<para>

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 works 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.

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead xml:id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

<para>

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<para>

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

</para>

<para>

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

</para>

<bridgehead xml:id="Protecting" renderas="sect1">

3. Protecting Users Legal Rights From Anti-Circumvention Law.

</bridgehead>

<para>

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

</para>

<para>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the works users, your or third parties legal rights to forbid circumvention of technological measures.

</para>

<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

<para>

You may convey verbatim copies of the Programs source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the

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</para>

<para>

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

</para>

<bridgehead xml:id="ConveyingModified" renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

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

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

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</listitem>
</orderedlist>
<para>
A compilation of a covered work with other separate and independent works,
which are not by their nature extensions of the covered work, and which are
not combined with it such as to form a larger program, in or on a volume of
a storage or distribution medium, is called an aggregate if
the compilation and its resulting copyright are not used to limit the access
or legal rights of the compilations users beyond what the individual works
permit. Inclusion of a covered work in an aggregate does not cause
this License to apply to the other parts of the aggregate.
</para>
<bridgehead xml:id="ConveyingNonSource" renderas="sect1">
6. Conveying Non-Source Forms.
</bridgehead>
<para>
You may convey a covered work in object code form under the terms of
sections 4 and 5, provided that you also convey the machine-readable
Corresponding Source under the terms of this License, in one of these ways:
</para>
<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
<listitem>
<para>
Convey the object code in, or embodied in, a physical product (including
a physical distribution medium), accompanied by the Corresponding Source
fixed on a durable physical medium customarily used for software
interchange.
</para>
</listitem>
<listitem>
<para>
Convey the object code in, or embodied in, a physical product (including
a physical distribution medium), accompanied by a written offer, valid
for at least three years and valid for as long as you offer spare parts
or customer support for that product model, to give anyone who possesses
the object code either (1) a copy of the Corresponding Source for all
the software in the product that is covered by this License, on a
durable physical medium customarily used for software interchange, for a
price no more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the Corresponding Source from
a network server at no charge.
</para>
</listitem>
<listitem>
<para>
Convey individual copies of the object code with a copy of the written
offer to provide the Corresponding Source. This alternative is allowed
only occasionally and noncommercially, and only if you received the

```

object code with such an offer, in accord with subsection 6b.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

</orderedlist>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

</para>

<bridgehead xml:id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

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<para>

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<para>

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</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

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</para>

</listitem>

<listitem>

<para>

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<para>

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Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

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</orderedlist>

<para>

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</para>

<para>

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

</para>

<para>

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

</para>

<bridgehead xml:id="gpl-3-termination" renderas="sect1">

8. Termination.

</bridgehead>

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<para>

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

</para>

<para>

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

</para>

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<bridgehead xml:id="AcceptanceNotRequired" renderas="sect1">

9. Acceptance Not Required for Having Copies.

</bridgehead>

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</para>

<bridgehead xml:id="AutomaticDownstream" renderas="sect1">

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<bridgehead xml:id="RevisedVersions" renderas="sect1">

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<bridgehead xml:id="InterpretationSecs1516" renderas="sect1">

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</para>

<screen>

<replaceable>one line to give the programs name and a brief idea of what it does.</replaceable>

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</screen>

<para>

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

</para>

<para>

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</para>

<screen>

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</screen>

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</para>

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</para>

</appendix>

## GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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## 1.141 gdb 8.0.1

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Version 3, 29 June 2007

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

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

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

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

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

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

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

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

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```
#!/usr/bin/env python
```

```
# Copyright (C) 2011-2017 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
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"""copyright.py
```

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: `cd src/gdb && python copyright.py`

Always review the output of this script before committing it!

A useful command to review the output is:

```
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
```

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

```
"""
```

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

```
def get_update_list():
```

```
    """Return the list of files to update.
```

```
    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
```

```
    """
```

```
    result = []
```

```
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
```

```
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
```

```
            for dirname in dirs:
```

```
                reldirname = "%s/%s" % (root, dirname)
```

```
                if (dirname in EXCLUDE_ALL_LIST
```

```
                    or reldirname in EXCLUDE_LIST
```

```
                    or reldirname in NOT_FSF_LIST
```

```
                    or reldirname in BY_HAND):
```

```
                    # Prune this directory from our search list.
```

```
                    dirs.remove(dirname)
```

```
            for filename in files:
```

```
                relpath = "%s/%s" % (root, filename)
```

```
                if (filename in EXCLUDE_ALL_LIST
```

```
                    or relpath in EXCLUDE_LIST
```

```
                    or relpath in NOT_FSF_LIST
```

```
                    or relpath in BY_HAND):
```

```
                    # Ignore this file.
```

```
                    pass
```

```
                else:
```

```
                    result.append(relpath)
```

```
    return result
```

```

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

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

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

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith('\n'):
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
            if may_have_copyright_notice(filename):
                print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

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

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

```

directory.

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

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

fd = open(filename)

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

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

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \
            "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

#####
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
```

```
#####
```

```
# Files which should not be modified, either because they are  
# generated, non-FSF, or otherwise special (e.g. license text,  
# or test cases which must be sensitive to line numbering).
```

```
#
```

```
# Filenames are relative to the root directory.
```

```
EXCLUDE_LIST = (  
  'gdb/nat/glibc_thread_db.h',  
  'gdb/CONTRIBUTE',  
  'gdb/gnulib/import'
```

```
)
```

```
# Files which should not be modified, either because they are  
# generated, non-FSF, or otherwise special (e.g. license text,  
# or test cases which must be sensitive to line numbering).
```

```
#
```

```
# Matches any file or directory name anywhere. Use with caution.
```

```
# This is mostly for files that can be found in multiple directories.
```

```
# Eg: We want all files named COPYING to be left untouched.
```

```
EXCLUDE_ALL_LIST = (  
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
  "fdl.texi", "gpl.texi", "aclocal.m4",
```

```
)
```

```
# The list of files to update by hand.
```

```
BY_HAND = (  
  # These files are sensitive to line numbering.  
  "gdb/testsuite/gdb.base/step-line.inp",  
  "gdb/testsuite/gdb.base/step-line.c",
```

```
)
```

```
# Files containing multiple copyright headers. This script is only  
# fixing the first one it finds, so we need to finish the update  
# by hand.
```

```
MULTIPLE_COPYRIGHT_HEADERS = (  
  "gdb/doc/gdb.texinfo",  
  "gdb/doc/refcard.tex",  
  "gdb/gdbarch.sh",
```

```
)
```

```
# The list of file which have a copyright, but not head by the FSF.
```

```
# Filenames are relative to the root directory.
```

```
NOT_FSF_LIST = (  
  "gdb/exc_request.defs",  
  "gdb/gdbtk",  
  "gdb/testsuite/gdb.gdbtk/",
```



"sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
 "sim/arm/dbg\_hif.h", "sim/arm/dbg\_conf.h", "sim/arm/communicate.h",  
 "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",  
 "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",  
 "sim/arm/armopts.h", "sim/arm/dbg\_cp.h", "sim/arm/dbg\_rdi.h",  
 "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
 "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
 "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",  
 "sim/arm/arminit.c",  
 "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",  
 "sim/common/cgen-accftp.c",  
 "sim/mips/m16run.c", "sim/mips/sim-main.c",  
 "sim/moxie/moxie-gdb.dts",  
 # Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
 "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",  
 "sim/ppc/hw\_sem.c", "sim/ppc/hw\_disk.c", "sim/ppc/idecode\_branch.h",  
 "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw\_core.c",  
 "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",  
 "sim/ppc/sim\_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",  
 "sim/ppc/emul\_chirp.c", "sim/ppc/hw\_nvram.c", "sim/ppc/dc-test.01",  
 "sim/ppc/hw\_phb.c", "sim/ppc/hw\_eeprom.c", "sim/ppc/bits.h",  
 "sim/ppc/hw\_vm.c", "sim/ppc/cap.h", "sim/ppc/os\_emul.h",  
 "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",  
 "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",  
 "sim/ppc/filter\_filename.h", "sim/ppc/hw\_shm.c",  
 "sim/ppc/pk\_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",  
 "sim/ppc/device\_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",  
 "sim/ppc/emul\_bugapi.h", "sim/ppc/hw\_cpu.h", "sim/ppc/debug.h",  
 "sim/ppc/hw\_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",  
 "sim/ppc/interrupts.c", "sim/ppc/hw\_glue.c", "sim/ppc/emul\_unix.c",  
 "sim/ppc/sim\_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",  
 "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",  
 "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",  
 "sim/ppc/emul\_chirp.h", "sim/ppc/hw\_register.c", "sim/ppc/hw\_init.c",  
 "sim/ppc/sim-endian-n.h", "sim/ppc/filter\_filename.c",  
 "sim/ppc/bits.c", "sim/ppc/idecode\_fields.h", "sim/ppc/hw\_memory.c",  
 "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",  
 "sim/ppc/hw\_trace.c", "sim/ppc/emul\_netbsd.h", "sim/ppc/psim.c",  
 "sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",  
 "sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",  
 "sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",  
 "sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw\_cpu.c",  
 "sim/ppc/corefile.c", "sim/ppc/hw\_opic.c", "sim/ppc/gen-icache.c",  
 "sim/ppc/events.h", "sim/ppc/os\_emul.c", "sim/ppc/emul\_generic.c",  
 "sim/ppc/main.c", "sim/ppc/hw\_com.c", "sim/ppc/gen-semantics.c",  
 "sim/ppc/emul\_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul\_generic.h",  
 "sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",  
 "sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw\_phb.h",

```

"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

```

```

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

```

```

}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/ {
    print "}";
    print "";
    print "static void";
    print "show_warranty_command (char *ignore, int from_tty)";
    print "{";
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/ {
    if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
    {
        printf " printf_filtered (\\"";
        for (i = 1; i < NF; i++)
            printf "%s\\\\"", $i;
        printf "%s\\n\\");\n", $NF;
    }
}
END {
    print "}";
    print "";
    print "void"
    print "_initialize_copying (void)";
    print "{";
    print " add_cmd (\\"copying\\", no_set_class, show_copying_command, ";
    print " _(\\"Conditions for redistributing copies of GDB.\");";
    print " &showlist);";
    print " add_cmd (\\"warranty\\", no_set_class, show_warranty_command, ";
    print " _(\\"Various kinds of warranty you do not have.\");";
    print " &showlist);";
    print "";
    print " /* For old-timers, allow \\"info copying\\", etc. */";
    print " add_info (\\"copying\\", show_copying_command, ";
    print " _(\\"Conditions for redistributing copies of GDB.\");";
    print " add_info (\\"warranty\\", show_warranty_command, ";
    print " _(\\"Various kinds of warranty you do not have.\");";
    print "}";
}
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

```

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@c man end

@end ignore

@node Copying

@c man begin DESCRIPTION

@appendix GNU GENERAL PUBLIC LICENSE

@c The GNU General Public License.

@center Version 3, 29 June 2007

@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

@display

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@end display

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# 1.142 gdbm 1.14.1 :1.0

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## 1.143 glib-2.0 2.54.3 :0

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

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

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

@item

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

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

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

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

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

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

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

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

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

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@item

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

@item

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

@end enumerate

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

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@enumerate a

@item

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

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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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@subheading END OF TERMS AND CONDITIONS

@page

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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That's all there is to it!

/\* setjmp is implemented in setjmp.S \*/

/\* \_setjmp is implemented in setjmp.S \*/

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Version 2.1, February 1999

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in



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

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## 1.146 glibc/gplv3-portions 2.25

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# 1.147 gmp 6.1.2

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```

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```
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```

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# 1.152 Hazelcast 3.8.4

## 1.152.1 Available under license :

```
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 */
```

```
package com.hazelcast.security.permission;
```

```
import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;
```

```
import java.security.Permission;
import java.util.HashMap;
import java.util.Map;
```

```
public final class ActionConstants {
```

```

public static final String ACTION_ALL = "all";
public static final String ACTION_CREATE = "create";
public static final String ACTION_DESTROY = "destroy";
public static final String ACTION_MODIFY = "modify";
public static final String ACTION_READ = "read";
public static final String ACTION_REMOVE = "remove";
public static final String ACTION_LOCK = "lock";
public static final String ACTION_LISTEN = "listen";
public static final String ACTION_RELEASE = "release";
public static final String ACTION_ACQUIRE = "acquire";
public static final String ACTION_PUT = "put";
public static final String ACTION_ADD = "add";
public static final String ACTION_INDEX = "index";
public static final String ACTION_INTERCEPT = "intercept";
public static final String ACTION_PUBLISH = "publish";
public static final String ACTION_AGGREGATE = "aggregate";
public static final String ACTION_PROJECTION = "projection";

public static final String LISTENER_INSTANCE = "instance";
public static final String LISTENER_MEMBER = "member";
public static final String LISTENER_MIGRATION = "migration";

private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String,
PermissionFactory>();

static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
}

```

```

    }
});
PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SetPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {

```

```

        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});
}

```

```

private ActionConstants() {
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

}

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 */

package com.hazelcast.security.permission;

import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;

import java.security.Permission;

```

```

/**
 * TODO: Object Permission
 */
public abstract class InstancePermission extends ClusterPermission {

    protected static final int NONE = 0;
    protected static final int CREATE = 1;
    protected static final int DESTROY = 2;

    private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();

    protected final int mask;
    protected final String actions;

    public InstancePermission(String name, String... actions) {
        super(name);
        if (name == null || "".equals(name)) {
            throw new IllegalArgumentException("Permission name is mandatory!");
        }
        mask = initMask(actions);

        final StringBuilder s = new StringBuilder();
        for (String action : actions) {
            s.append(action).append(" ");
        }
        this.actions = s.toString();
    }

    /**
     * init mask
     */
    protected abstract int initMask(String[] actions);

    @Override
    public boolean implies(Permission permission) {
        if (this.getClass() != permission.getClass()) {
            return false;
        }

        InstancePermission that = (InstancePermission) permission;

        boolean maskTest = ((this.mask & that.mask) == that.mask);
        if (!maskTest) {
            return false;
        }
    }
}

```



```

    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    if (mask != other.mask) {
        return false;
    }
    return true;
}
}
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*/
```

```
package com.hazelcast.security.permission;
```

```
public class SetPermission extends ListPermission {
```

```
    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}
```

```
/*
```

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```
*/
```

```
package com.hazelcast.security.permission;
```

```
import java.security.Permission;
```

```
import java.security.PermissionCollection;
```

```
import java.util.Enumeration;
```

```
public class DenyAllPermissionCollection extends PermissionCollection {
```

```
    public DenyAllPermissionCollection() {
    }
}
```

```
    @Override
```

```
    public void add(Permission permission) {
```

```
    }
```

```
    @Override
```

```

public boolean implies(Permission permission) {
    return false;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        @Override
        public boolean hasMoreElements() {
            return false;
        }

        @Override
        public Permission nextElement() {
            return null;
        }
    };
}

@Override
public int hashCode() {
    return 37;
}

@Override
public String toString() {
    return "<deny all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}
}
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```

```

*/

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {
        return "<all actions>";
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionsCollection();
    }

    @Override
    public String toString() {
        return "<allow all permissions>";
    }

    @Override
    public boolean equals(Object obj) {
        return obj instanceof AllPermissions;
    }

    @Override
    public int hashCode() {
        return 111;
    }

    public static final class AllPermissionsCollection extends PermissionCollection {
        private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
        private boolean all;
    }
}

```

```

public AllPermissionsCollection() {
}

public AllPermissionsCollection(boolean all) {
    this.all = all;
}

@Override
public void add(Permission permission) {
    if (permission instanceof AllPermissions) {
        all = true;
    }
}

@Override
public boolean implies(Permission permission) {
    return all;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        boolean more = all;

        @Override
        public boolean hasMoreElements() {
            return more;
        }

        @Override
        public Permission nextElement() {
            more = false;
            return ALL_PERMISSIONS;
        }
    };
}

@Override
public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {

```

```

        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

@Override
public String toString() {
    return "<allow all permissions>";
}
}
}
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 */

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;

```

```

for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
        mask |= ACQUIRE;
    } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
        mask |= RELEASE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    }
}
return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {

```

```

int mask = NONE;
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;

```



```

for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }
}

```

```

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;

```

```

import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    @Override
    public void add(Permission permission) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
            || (permission instanceof ClusterPermission);

        if (shouldAdd && !implies(permission)) {
            perms.add(permission);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
                add(p);
            }
        }
    }

    @Override
    public boolean implies(Permission permission) {
        for (Permission p : perms) {
            if (p.implies(permission)) {
                return true;
            }
        }
        return false;
    }
}

```

```

}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
    setReadOnly();
}

```

@Override

```

public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

```

```

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

```

@Override

```

public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "];"
}
}

```

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*/
```

```
package com.hazelcast.security.permission;
```

```
public class LockPermission extends InstancePermission {  
  
    private static final int LOCK = 4;  
    private static final int READ = 8;  
    private static final int ALL = CREATE | DESTROY | LOCK | READ;  
  
    public LockPermission(String key, String... actions) {  
        super(key, actions);  
    }  
  
    @Override  
    protected int initMask(String[] actions) {  
        int mask = NONE;  
        for (String action : actions) {  
            if (ActionConstants.ACTION_ALL.equals(action)) {  
                return ALL;  
            }  
  
            if (ActionConstants.ACTION_CREATE.equals(action)) {  
                mask |= CREATE;  
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {  
                mask |= DESTROY;  
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {  
                mask |= LOCK;  
            } else if (ActionConstants.ACTION_READ.equals(action)) {  
                mask |= READ;  
            }  
        }  
        return mask;  
    }  
}  
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*/

```

```
package com.hazelcast.security.permission;
```

```
public class CountdownLatchPermission extends InstancePermission {
```

```

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

```

```

    public CountdownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

```

```
@Override
```

```

    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            }
        }
        return mask;
    }
}

```

```
/*
```

```

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- \*/

```
package com.hazelcast.security.permission;
```

```
public class CardinalityEstimatorPermission extends InstancePermission {
```

```
    private static final int READ = 4;
```

```
    private static final int MODIFY = 8;
```

```
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;
```

```
    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }
}
```

```
@Override
```

```
protected int initMask(String[] actions) {
```

```
    int mask = NONE;
```

```
    for (String action : actions) {
```

```
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
    }
```

```
        if (ActionConstants.ACTION_CREATE.equals(action)) {
```

```
            mask |= CREATE;
```

```
        } else if (ActionConstants.ACTION_READ.equals(action)) {
```

```
            mask |= READ;
```

```
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
```

```
            mask |= MODIFY;
```

```
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
```

```
            mask |= DESTROY;
```

```
        }
```

```
    }
```

```
    return mask;
```

```
}
```

```
}
```

```
/*
```

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*/
```

```
package com.hazelcast.security.permission;
```

```
/**
```

```
* To be able to map-reduce from a client in a secure environment
*/
```

```
public class MapReducePermission extends InstancePermission {
```

```
    private static final int ALL = CREATE | DESTROY;
```

```
    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }
```

```
    @Override
```

```
    protected int initMask(String[] actions) {
```

```
        int mask = NONE;
```

```
        for (String action : actions) {
```

```
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
```

```
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
```

```
        }
        return mask;
    }
```

```
}
```

```
}
```

```
/**
```

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```
package com.hazelcast.security.permission;
```

```
public class AtomicReferencePermission extends InstancePermission {
```

```
    private static final int READ = 4;
```

```
    private static final int MODIFY = 8;
```

```
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;
```

```
    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }
}
```

```
@Override
```

```
protected int initMask(String[] actions) {
```

```
    int mask = NONE;
```

```
    for (String action : actions) {
```

```
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
    }
```

```
        if (ActionConstants.ACTION_CREATE.equals(action)) {
```

```
            mask |= CREATE;
```

```
        } else if (ActionConstants.ACTION_READ.equals(action)) {
```

```
            mask |= READ;
```

```
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
```

```
            mask |= MODIFY;
```

```
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
```

```
            mask |= DESTROY;
```

```
        }
```

```
    }
```

```
    return mask;
```

```
}
```

```
}
```

```
/*
```

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```

```
package com.hazelcast.security.permission;
```

```

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

```

```

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```

```
package com.hazelcast.security.permission;
```

```
public class MultiMapPermission extends MapPermission {
```

```
    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}
```

```
/*
```

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```
*/
```

```
package com.hazelcast.security.permission;
```

```
import java.security.Permission;
```

```
import java.security.PermissionCollection;
```

```
public abstract class ClusterPermission extends Permission {
```

```
    private int hashCode;
```

```
    public ClusterPermission(String name) {
        super(name);
    }
}
```

```
@Override
```

```
public PermissionCollection newPermissionCollection() {
    return new ClusterPermissionCollection(getClass());
}
```

```
@Override
```

```
public int hashCode() {
```

```

if (hashCode == 0) {
    final int prime = 31;
    int result = 1;
    if (getName() == null) {
        result = prime * result + 13;
    } else {
        result = prime * result + getName().hashCode();
    }
    hashCode = result;
}
return hashCode;
}

```

@Override

```

public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    ClusterPermission other = (ClusterPermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    return true;
}
}

```

/\*

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```

*/

package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
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```
package com.hazelcast.security.permission;
```

```
public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
                mask |= PUBLISH;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
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```

```
package com.hazelcast.security.permission;
```

```
import java.security.Permission;
```

```
public class TransactionPermission extends ClusterPermission {
```

```
    public TransactionPermission() {  
        super("<transaction>");  
    }
```

```
    @Override  
    public boolean implies(Permission permission) {  
        return getClass() == permission.getClass();  
    }
```

```
    @Override  
    public String getActions() {  
        return "transaction";  
    }  
}
```

```
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```

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```
*/
```

```
package com.hazelcast.security.permission;
```

```
public class ListPermission extends InstancePermission {
```

```
    private static final int ADD = 4;  
    private static final int READ = 8;  
    private static final int REMOVE = 16;
```

```

private static final int LISTEN = 32;
private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

public ListPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_ADD.equals(action)) {
            mask |= ADD;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}

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 */

```



```

package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX |
INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_INDEX.equals(action)) {
                mask |= INDEX;
            } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
                mask |= INTERCEPT;
            }
        }
        return mask;
    }
}

```

```
}
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```

```
/**
 * Contains all the security permissions
 */
```

```
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```

```
package com.hazelcast.security.permission;
```

```
public class ReplicatedMapPermission extends InstancePermission {
```

```
    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
```

```
private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX |
INTERCEPT;
```

```
public ReplicatedMapPermission(String name, String... actions) {
    super(name, actions);
}
```

```
@Override
```

```
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }
    return mask;
}
```

```
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```

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```

```
package com.hazelcast.security.permission;
```

```

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
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```
package com.hazelcast.security.permission;
```

```
public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}
```

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## 1.154 HdrHistogram 2.1.9

### 1.154.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">
```

```
<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

```
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distributed under the License is distributed on an &quot;AS IS&quot; BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
permissions and limitations under the License. -->
```

```
</head>
```

```
<body>
```

```
<!-- Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
```

```
<ul class="dropdown-menu" role="menu">
```

```
<li><a href="/foundation">Overview</a></li>
```

```
<li><a href="/foundation/members.html">Members</a></li>
```

```
<li><a href="/foundation/how-it-works.html">Process</a></li>
```

```
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
```

```
<li><a href="/foundation/glossary.html">Glossary</a></li>
```

```
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
```

```
<li><a href="/foundation/contact.html ">Contact</a></li>
```

```
</ul>
```

```
</li>
```

```

</li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="http://people.apache.org/">Overview</a></li>
    <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
  <div class="row">
    <div class="col-md-6 col-sm-5 col-xs-12">
      
    </div>
    <div class="col-md-3 col-sm-3 col-xs-6">
      <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
        
      </a>
    </div>
  </div>
</div>

```

```

</div>
<div class="col-md-3 col-sm-4 col-xs-6">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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power, direct or indirect, to cause the direction or management of such

```

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```
<div class="codehilite"><pre>Copyright [yyyy] [name of copyright owner]
```

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
```

```
<li><a href="/memorials/">Memorials</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
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    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

## 1.155 highcharts 6.0.4

## 1.156 highcharts-ng 1.2.0

### 1.156.1 Available under license :

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## 1.157 HikariCP-java6 2.3.13

## 1.158 hppc 0.7.1

### 1.158.1 Available under license :

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{\fonttbl{\f0\fmmodern\fcharset0 Courier;}}
{\colortbl;\red255\green255\blue255;\red0\green0\blue0;}
{\*\expandedcolortbl;;\cssrgb\c0\c0\c0;}
\margl1440\margr1440\vieww10800\viewh8400\viewkind0
\deftab720
\pard\pardefstab720\sl280\partightenfactor0

\f0\fs24 \cf2 \expnd0\expndtw0\kerning0
\outl0\strokewidth0 \strokec2 \
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}

```

## 1.159 httpasyncclient 4.1.2

### 1.159.1 Available under license :

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">

```



```

<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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permissions and limitations under the License. -->

```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```

```

      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

        <span class="sr-only">Toggle navigation</span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

      </button>

```

```

    <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
    <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="http://people.apache.org/">Overview</a></li>
        <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
        <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
        <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
        <li><a href="http://planet.apache.org/">Planet Apache</a></li>
      </ul>
    </li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
        <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
      </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>

```

```

        </ul>
    </li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
    <div class="col-md-6 col-sm-5 col-xs-12">
        
    </div>
    <div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
        
    </a>
    </div>
    <div class="col-md-3 col-sm-4 col-xs-6">
        <div class="input-group" style="margin-bottom: 5px;">
            <script>
(function() {
    var cx = '005703438322411770421:5mgshgrgx2u';
    var gcse = document.createElement('script');
    gcse.type = 'text/javascript';
    gcse.async = true;
    gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
        '//cse.google.com/cse.js?cx=' + cx;
    var s = document.getElementsByTagName('script')[0];
    s.parentNode.insertBefore(gcse, s);
})();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
    </div>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
    </div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.

```

```

*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
<div class="container">
<div class="row">
<br />
<div class="col-sm-1">
```

```
</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
    <li><a href="/memorials/">Memorials</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
```



```

</div>

<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

## 1.160 httpclient 4.5

### 1.160.1 Available under license :

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">

```

```

<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

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distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
permissions and limitations under the License. -->

</head>

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">

```

```

<div class="navbar-header">
  <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
    <span class="sr-only">Toggle navigation</span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
  </button>
  <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
    <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="http://people.apache.org">Overview</a></li>
        <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
        <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
        <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
        <li><a href="http://planet.apache.org/">Planet Apache</a></li>
      </ul>
    </li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
        <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
      </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">

```

```

    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
    </li>
    </ul>
    </div>
    </div>
    </nav>
    </header>
    <!-- / Navigation -->
    <div class="container">
    <div class="row">
    <div class="col-md-6 col-sm-5 col-xs-12">
    
    </div>
    <div class="col-md-3 col-sm-3 col-xs-6">
    <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
    
    </a>
    </div>
    <div class="col-md-3 col-sm-4 col-xs-6">
    <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
    </div>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
    </div>
    </div>

```

```

</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre></div></div>

<!-- Footer -->



```

<footer class="bg-primary">
<div class="container">
  <div class="row">
    <br />
    <div class="col-sm-1">

</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
    <li><a href="/memorials/">Memorials</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Press</h5>

```

```
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
<p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
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<p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
</div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

# 1.161 httpcore-4.4.4.jar 4.4.4

## 1.161.1 Available under license :

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## 1.164 i2c-tools 4.0

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## 1.165 i40e 2.1.26

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## 1.167 init-ifupdown 1.0

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 *
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 */
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\*

\*

\* stdio.c  
\* by Mark Gates <[mgates@nlanr.net](mailto:mgates@nlanr.net)>  
\* and Ajay Tirumalla <[tirumala@ncsa.uiuc.edu](mailto:tirumala@ncsa.uiuc.edu)>

\*-----

```
* input and output numbers, converting with kilo, mega, giga
* ----- */
```

=====

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## 1.172 iptables 1.6.2 :2.0

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```

```
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<head>
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  <title>License and Copyright &mdash; IPython v0.10 documentation</title>
  <link rel="stylesheet" href="_static/default.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT:  "",
      VERSION:   '0.10',
      COLLAPSE_MODINDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE: true
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link rel="top" title="IPython v0.10 documentation" href="index.html" />
  <link rel="next" title="Credits" href="credits.html" />
  <link rel="prev" title="winconsole" href="api/generated/IPython.winconsole.html" />
</head>
<body>
  <div class="related">
    <h3>Navigation</h3>
    <ul>
      <li class="right" style="margin-right: 10px">
        <a href="genindex.html" title="General Index"
          accesskey="I">index</a></li>
      <li class="right" >
        <a href="modindex.html" title="Global Module Index">
```

```

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<li class="right" >
    <a href="credits.html" title="Credits"
    accesskey="N">next</a> |</li>
<li class="right" >
    <a href="api/generated/IPython.winconsole.html" title="winconsole"
    accesskey="P">previous</a> |</li>
<li><a href="index.html">IPython v0.10 documentation</a> &raquo;</li>
</ul>
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<div class="bodywrapper">
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```

```

<div class="section" id="license-and-copyright">
<span id="license"></span><h1>License and Copyright<a class="headerlink" href="#license-and-copyright"
title="Permalink to this headline"></a></h1>
<div class="section" id="id1">
<h2>License<a class="headerlink" href="#id1" title="Permalink to this headline"></a></h2>
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</div>

</div>

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<<a class="reference external"

href="mailto:jhauser&#37;&#52;&#48;zscout&#46;de">jhauser<span>&#64;</span>zscout<span>&#46;</span>de</a>> and Nathaniel Gray <<a class="reference external"

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<li>Fernando Perez (project leader)</li>

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</div>

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```

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</div>
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</div>
</div>

</div>
</div>
</div>
<div class="sphinxsidebar">
<div class="sphinxsidebarwrapper">
<h3><a href="index.html">Table Of Contents</a></h3>
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<li><a class="reference external" href="">License and Copyright</a></li>
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Team</a></li>
<li><a class="reference external" href="#our-copyright-policy">Our Copyright Policy</a></li>
<li><a class="reference external" href="#miscellaneous">Miscellaneous</a></li>
</ul>
</li>
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<h4>Previous topic</h4>
<p class="topless"><a href="api/generated/IPython.winconsole.html" title="previous
chapter">winconsole</a></p>
<h4>Next topic</h4>
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<h3>This Page</h3>
<ul class="this-page-menu">
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</ul>
<h3>Quick search</h3>
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<input type="text" name="q" size="18" /> <input type="submit" value="Go" />
<input type="hidden" name="check_keywords" value="yes" />
<input type="hidden" name="area" value="default" />
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<a href="genindex.html" title="General Index"
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accesskey="M">modules</a> |</li>
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<a href="credits.html" title="Credits"
accesskey="N">next</a> |</li>
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#### About the IPython Development Team

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Fernando Perez began IPython in 2001 based on code from Janko Hauser <jhauser@zscout.de> and Nathaniel Gray <n8gray@caltech.edu>. Fernando is still the project lead.

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- \* Ondrej Certik
- \* Laurent Dufrechou
- \* Robert Kern
- \* Brian E. Granger
- \* Fernando Perez (project leader)
- \* Benjamin Ragan-Kelley
- \* Ville M. Vainio
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<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '#10;'))"/>
  <xsl:text>#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '#10;')"/>
  <xsl:if test="translate($rest, '#9;#32;', ' ')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>
```

```
<xsl:variable name="isc.copyright.text">
  <xsl:text>
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```
</xsl:text>
</xsl:variable>
```

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    <xsl:with-param name="text">
      <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
      </xsl:for-each>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
```

```
</xsl:call-template>
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
<xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>
```

```
</xsl:stylesheet>
```

```
<!--
```

```
- Local variables:
```

```
- mode: sgml
```

```
- End:
```

```
-->
```

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Automated Testing Framework

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\*\*\*\*\*

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

Author: Julio Merino <jmmv@users.sourceforge.net>

- \* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision

3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

# 1.176 ixgbe 4.3.15

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## 1.177 ixgbe 5.3.4

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```

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```

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<signature of Ty Coon>, 1 April 1989
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## 1.178 ixgbevfv 3.1.2

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# 1.181 jackson-core-ssl 1.9.12

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Version 2.1, February 1999

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## 1.183 jackson-dataformat-cbor 2.8.6

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<signature of Ty Coon>, 1 April 1990

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## 1.189 Jackson-module-JAXB-annotations

### 2.4.1

#### 1.189.1 Available under license :

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# 1.192 jansson 2.9

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# 1.193 javascript-detect-element-resize 0.5.3

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## 1.194 Javassist 3.20.0-GA

### 1.194.1 Available under license :

<https://github.com/jboss-javassist/javassist>

Javassist version 3

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Javassist (JAVA programming ASSISTAnt) makes Java bytecode manipulation simple. It is a class library for editing bytecodes in Java; it enables Java programs to define a new class at runtime and to modify a class file when the JVM loads it. Unlike other similar bytecode editors, Javassist provides two levels of API: source level and bytecode level. If the users use the source-level API, they can edit a class file without knowledge of the specifications of the Java bytecode. The whole API is designed with only the vocabulary of the Java language. You can even specify inserted bytecode in the form of source text; Javassist compiles it on the fly. On the other hand, the bytecode-level API allows the users to directly edit a class file as other editors.

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## 1.195 javax.inject 1

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"http://www.w3.org/TR/html4/loose.dtd">

<html lang="en-US">
<head>
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<style type="text/css">
  li {display: block;}
</style>
</head>

<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">

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# 1.204 jboss-javaee-7.0-with-all 8.2.0.FINAL

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-->
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

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  <parent>
    <groupId>org.wildfly.bom</groupId>
    <version>8.2.0.Final</version>
    <artifactId>jboss-bom-parent</artifactId>
  </parent>

  <artifactId>jboss-javaee-7.0-with-all</artifactId>
  <packaging>pom</packaging>

  <name>WildFly JBoss Java EE 7 Specification APIs with All</name>
  <description>Dependency Management for Java EE 7 Specification APIs with All WildFly BOMs</description>

  <licenses>
    <license>
      <name>GNU Lesser General Public License, Version 2.1</name>
```

```

    <url>http://www.gnu.org/licenses/lgpl-2.1.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<properties>
  <!-- Version properties are inherited from parent -->
</properties>

<dependencyManagement>
  <dependencies>
    <!-- JBoss distributes a complete set of Java EE 7 APIs including
         a Bill of Materials (BOM). A BOM specifies the versions of a "stack" (or
         a collection) of artifacts. -->
    <dependency>
      <groupId>org.wildfly.bom</groupId>
      <artifactId>
        jboss-javaee-7.0-with-hibernate
      </artifactId>
      <version>${project.version}</version>
      <scope>import</scope>
      <type>pom</type>
    </dependency>
    <dependency>
      <groupId>org.wildfly.bom</groupId>
      <artifactId>
        jboss-javaee-7.0-with-hibernate3
      </artifactId>
      <version>${project.version}</version>
      <scope>import</scope>
      <type>pom</type>
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    <dependency>
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      <artifactId>
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      </artifactId>
      <version>${project.version}</version>
      <scope>import</scope>
      <type>pom</type>
    </dependency>
    <dependency>
      <groupId>org.wildfly.bom</groupId>
      <artifactId>
        jboss-javaee-7.0-with-resteasy
      </artifactId>
      <version>${project.version}</version>

```

```

        <scope>import</scope>
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    </dependency>
    <dependency>
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        <artifactId>
            jboss-javaee-7.0-with-security
        </artifactId>
        <version>${project.version}</version>
        <scope>import</scope>
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        <artifactId>
            jboss-javaee-7.0-with-tools
        </artifactId>
        <version>${project.version}</version>
        <scope>import</scope>
        <type>pom</type>
    </dependency>
    <dependency>
        <groupId>org.wildfly.bom</groupId>
        <artifactId>
            jboss-javaee-7.0-with-transactions
        </artifactId>
        <version>${project.version}</version>
        <scope>import</scope>
        <type>pom</type>
    </dependency>
</dependencies>
</dependencyManagement>
</project>

```

## 1.205 jboss-javaee-all-7.0 1.0.2

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Specification: JSR-919 JavaMail API Specification ("Specification")

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## 1.206 jboss-logging 3.1.4 :GA

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-->

<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">

```

```

<modelVersion>4.0.0</modelVersion>

<parent>
  <groupId>org.jboss</groupId>
  <artifactId>jboss-parent</artifactId>
  <version>10</version>
</parent>

<groupId>org.jboss.msc</groupId>
<artifactId>jboss-msc</artifactId>
<version>1.2.6.Final</version>
<name>JBoss Modular Service Container</name>

<properties>
  <version.apiviz>1.3.2.GA</version.apiviz>
  <version.byteman>3.0.0</version.byteman>
  <version.jboss-logmanager>1.4.1.Final</version.jboss-logmanager>
  <version.jboss-logging>3.1.3.GA</version.jboss-logging>
  <version.jboss-logging-processor>1.1.0.Final</version.jboss-logging-processor>
  <version.jboss-modules>1.2.2.Final</version.jboss-modules>
  <version.junit>4.8.2</version.junit>
</properties>

<dependencies>
  <dependency>
    <groupId>org.jboss.logging</groupId>
    <artifactId>jboss-logging-processor</artifactId>
    <version>${version.jboss-logging-processor}</version>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>org.jboss.modules</groupId>
    <artifactId>jboss-modules</artifactId>
    <version>${version.jboss-modules}</version>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>org.jboss.logging</groupId>
    <artifactId>jboss-logging</artifactId>
    <version>${version.jboss-logging}</version>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>org.jboss.logmanager</groupId>
    <artifactId>jboss-logmanager</artifactId>
    <version>${version.jboss-logmanager}</version>
    <scope>test</scope>
  </dependency>

```

```

</dependency>
<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>${ version.junit }</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.jboss.byteman</groupId>
  <artifactId>byteman</artifactId>
  <version>${ version.byteman }</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.jboss.byteman</groupId>
  <artifactId>byteman-bmunit</artifactId>
  <version>${ version.byteman }</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.jboss.byteman</groupId>
  <artifactId>byteman-install</artifactId>
  <version>${ version.byteman }</version>
  <scope>test</scope>
</dependency>
</dependencies>

<build>
  <plugins>
    <plugin>
      <artifactId>maven-compiler-plugin</artifactId>
      <configuration>
        <compilerArgument>-AloggingVersion=3.0</compilerArgument>
      </configuration>
    </plugin>
    <plugin>
      <artifactId>maven-source-plugin</artifactId>
    </plugin>
    <plugin>
      <artifactId>maven-surefire-plugin</artifactId>
      <configuration>
        <!-- uncomment this to enable byteman rule debug messages
        <argLine>-Dorg.jboss.byteman.debug</argLine> -->
        <includes>
          <include>**/*TestCase.java</include>
        </includes>
        <excludes>
          <exclude>org/jboss/msc/bench/*.java</exclude>
        </excludes>
      </configuration>
    </plugin>
  </plugins>
</build>

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</excludes>
<systemProperties>
  <property>
    <name>test.log.output</name>
    <value>${project.build.directory}/surefire-reports</value>
  </property>
  <property>
    <name>jboss.msc.profile.output</name>
    <value>${project.build.testOutputDirectory}/prof.txt</value>
  </property>
  <property>
    <name>java.util.logging.manager</name>
    <value>org.jboss.logmanager.LogManager</value>
  </property>
  <property>
    <name>racecondition.dir</name>
    <value>${project.build.testOutputDirectory}</value>
  </property>
  <property>
    <name>org.jboss.byteman.transform.all</name>
    <value>true</value>
  </property>
</systemProperties>
</configuration>
<executions>
  <execution>
    <id>rejected-execution-test</id>
    <goals><goal>test</goal></goals>
    <configuration>
      <systemProperties>
        <property>
          <name>org.jboss.byteman.transform.all</name>
          <value>true</value>
        </property>
        <property>
          <name>test.log.output</name>
          <value>${project.build.directory}/surefire-reports</value>
        </property>
        <property>
          <name>java.util.logging.manager</name>
          <value>org.jboss.logmanager.LogManager</value>
        </property>
      </systemProperties>
      <!-- add this to agent parameter list to enable debug ,prop:org.jboss.byteman.debug=true -->
      <argLine>-Xbootclasspath/a:${settings.localRepository}/org/jboss/logmanager/${version.jboss-
logmanager}/jboss-logmanager-${version.jboss-logmanager}.jar
-
javaagent:${settings.localRepository}/org/jboss/byteman/byteman/${version.byteman}/byteman-

```

```

${ version.byteman },jar=boot:${ settings.localRepository }/org/jboss/byteman/byteman/${ version.byteman }/byteman
-
${ version.byteman },jar,script:${ project.build.testOutputDirectory }/org/jboss/msc/racecondition/RejectedExecution
TestCase.btm</argLine>
    <includes>
        <include>org/jboss/msc/racecondition/RejectedExecutionTestSuite.java</include>
    </includes>
</configuration>
</execution>
<execution>
    <id>removal-during-cycle-detection-test</id>
    <goals><goal>test</goal></goals>
    <configuration>
        <systemProperties>
            <property>
                <name>test.log.output</name>
                <value>${ project.build.directory }/surefire-reports</value>
            </property>
            <property>
                <name>java.util.logging.manager</name>
                <value>org.jboss.logmanager.LogManager</value>
            </property>
        </systemProperties>
        <includes>
            <include>org/jboss/msc/racecondition/RemovalDuringCycleDetectionTest.java</include>
        </includes>
    </configuration>
</execution>
</executions>
</plugin>
<plugin>
    <artifactId>maven-javadoc-plugin</artifactId>
    <configuration>
        <docfilessubdirs>true</docfilessubdirs>
        <detectJavaApiLink>>false</detectJavaApiLink>
        <detectLinks>>false</detectLinks>
        <doclet>net.gleamynode.apiviz.APIviz</doclet>
        <docletArtifact>
            <groupId>org.jboss.apiviz</groupId>
            <artifactId>apiviz</artifactId>
            <version>${ version.apiviz }</version>
        </docletArtifact>
        <doctitle><![CDATA[JBoss Modular Service Container ]]>${ project.version }</doctitle>
        <header><![CDATA[JBoss Modular Service Container ]]>${ project.version }</header>
        <footer><![CDATA[JBoss Modular Service Container ]]>${ project.version }</footer>
        <bottom><![CDATA[<i>Copyright &#169; 2012 JBoss, a division of Red Hat, Inc.</i>]]></bottom>
    </configuration>
    <links>
        <link>http://java.sun.com/javase/6/docs/api/</link>
    </links>
</plugin>

```

```

    </links>
  </configuration>
</plugin>
<plugin>
  <artifactId>maven-jar-plugin</artifactId>
  <configuration>
    <archive>
      <manifestEntries>
        <Jar-Version>${project.version}</Jar-Version>
        <Jar-Name>${project.artifactId}</Jar-Name>
      </manifestEntries>
    </archive>
  </configuration>
</plugin>
</plugins>
</build>
</project>

```

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## 1.209 jctree 2.0.0

## 1.210 jemalloc 5.1.0

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## 1.211 jettison 1.3.2

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# 1.214 jna 4.4.0-1

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## 1.215 jna-platform 4.5.0

# 1.216 JNC 1.2

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## 1.243 kmod 25

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## 1.258 libcpuid 0.4.0

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Upstream-Name: libcpuid

Source: <http://github.com/anrieff/libcpuid>

Files: \*

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 *
 * Adapted from OpenBSD libc *err* *warn* code.
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 *
 * @(#err.h 8.1 (Berkeley) 6/2/93
 */
```

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## 1.261 libffi 3.2.1

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```

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```
#
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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 $1"
        ;;
    esac
    opt="true"
    ;;
  esac
  shift 1
;;
-g)
  # Enable debug symbol generation.
  args="$args -Zi"
  shift 1
;;
-DFFI_DEBUG)
  # Enable runtime error checks.
  args="$args -RTC1"
  defines="$defines $1"
  shift 1
;;
-DUSE_STATIC_RTL)
  # Link against static CRT.
  static_crt=1
  shift 1
;;
-DUSE_DEBUG_RTL)
  # Link against debug CRT.
  debug_crt=1
  shift 1
;;
-c)
  args="$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="$args -D${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)
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"
fi

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 $src|sed '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 *.obj $outdir
else
    args="$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

% texinfo.tex -- TeX macros to handle Texinfo files.
%
% Load plain if necessary, i.e., if running under initex.
\expandafter\ifx\csname fmtname\endcsname\relax\input plain\fi
%
\def\texinfoversion{2013-02-01.11}
%
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% 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=,
\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\ptexlbrace=\{
\let\ptexless=<
\let\ptexnewwrite\newwrite
\let\ptexnoindent=\noindent
\let\ptexplus=+
\let\ptexraggedright=\raggedright
\let\ptexrbrace=}
```

```

\let\ptexslash=\/
\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{1.\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\putwordin\undefined \gdef\putwordin{in}\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
\ifx\putwordDefspec\undefined \gdef\putwordDefspec{Special Form}\fi
\ifx\putwordDefvar\undefined \gdef\putwordDefvar{Variable}\fi
\ifx\putwordDefopt\undefined \gdef\putwordDefopt{User Option}\fi
\ifx\putwordDeffunc\undefined \gdef\putwordDeffunc{Function}\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
\ifx\TeXversion\thisisundefined\else % etex gives us more logging
\tracingscantokens1
\tracingifs1
\tracinggroups1
\tracingnesting2
\tracingassigns1
\fi
\tracingcommands3 % 3 gives us more in etex
\errorcontextlines16
}%

% @errmsg{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\errmsg{\begingroup \indexnofonts \doerrmsg}
\def\doerrmsg#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.
%
\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 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
% the headline as they should be, not taken literally (outputting "code").
\ifodd\pageno \getoddheadingmarks \else \getevenheadingmarks \fi
\setbox\headlinebox = \vbox{\let\hsize=\pagewidth \makeheadline}%
\ifodd\pageno \getoddfootingmarks \else \getevenfootingmarks \fi
\setbox\footlinebox = \vbox{\let\hsize=\pagewidth \makefootline}%
%
}%
% Have to do this stuff outside the \shipout because we want it to
% take effect in \write's, yet the group defined by the \vbox ends
% before the \shipout runs.
%
\indexdummies      % don't expand commands in the output.
\normalturnoffactive % \ in index entries must not stay \, e.g., if
    % the page break happens to be in the middle of an example.
    % We don't want .vr (or whatever) entries like this:
    % \entry{{\tt \indexbackslash }acronym}{32}{\code {\acronym}}
    % "\acronym" won't work when it's read back in;
    % it needs to be
    % {\code {{\tt \backslashcurfont }acronym}}
\shipout\vbox{%
% Do this early so pdf references go to the beginning of the page.
\ifpdfmakepagedest \pdfdest name{\the\pageno} xyz\fi
%
\ifcropmarks \vbox to \outerysize\bgroup
\hsize = \outerhsize
\vskip-\topandbottommargin
\vtop to0pt{%
\line{\ewtop\hfil\ewtop}%
\nointerlineskip

```

```

\line{%
  \vbox{\moveleft\cornerthick\nstop}%
  \hfill
  \vbox{\moveright\cornerthick\nstop}%
}%
\vss}%
\vskip\topandbottommargin
\line\bgroup
\hfil % center the page within the outer (page) hsize.
\ifodd\pageno\hskip\bindingoffset\fi
\vbox\bgroup
\fi
%
\unvbox\headlinebox
\pagebody{#1}%
\ifdim\ht\footlinebox > 0pt
% Only leave this space if the footline is nonempty.
% (We lessened \vsize for it in \oddfootingyyy.)
% The \baselineskip=24pt in plain's \makefootline has no effect.
\vskip 24pt
\unvbox\footlinebox
\fi
%
\ifcropmarks
  \egroup % end of \vbox\bgroup
  \hfil\egroup % end of (centering) \line\bgroup
  \vskip\topandbottommargin plus1fill minus1fill
  \boxmaxdepth = \cornerthick
  \vbox to0pt{\vss
    \line{%
      \vbox{\moveleft\cornerthick\nsbot}%
      \hfill
      \vbox{\moveright\cornerthick\nsbot}%
    }%
    \nointerlineskip
    \line{\ewbot\hfil\ewbot}%
  }%
  \egroup % \vbox from first cropmarks clause
\fi
}% end of \shipout\vbox
}% end of group with \indexdummies
\advancepageno
\ifnum\outputpenalty>-20000 \else\dosupereject\fi
}

\newinsert\margin \dimen\margin=\maxdimen

\def\pagebody#1{\vbox to\pageheight{\boxmaxdepth=\maxdepth #1}}

```

```

{\catcode`\@ =11
\gdef\pagecontents#1{\ifvoid\topins\else\unvbox\topins\fi
% marginal hacks, juha@viisa.uucp (Juha Takala)
\ifvoid\margin\else % marginal info is present
\rlap{\kern\hsize\vbox to\z@{\kern1pt\box\margin \vss}}\fi
\dimen@=\dp#1\relax \unvbox#1\relax
\ifvoid\footins\else\vskip\skip\footins\footnoterule \unvbox\footins\fi
\ifr@ggedbottom \kern-\dimen@ \vfil \fi}
}

% Here are the rules for the cropmarks. Note that they are
% offset so that the space between them is truly \outerhsize or \outervsize
% (P. A. MacKay, 12 November, 1986)
%
\def\ewtop{\vrule height\cornerthick depth0pt width\cornerlong}
\def\nstop{\vbox
{\hrule height\cornerthick depth\cornerlong width\cornerthick}}
\def\ewbot{\vrule height0pt depth\cornerthick width\cornerlong}
\def\nsbot{\vbox
{\hrule height\cornerlong depth\cornerthick width\cornerthick}}

% 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\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{\argcheckspacesY#1\^^M}
\def\argcheckspacesY#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%
}
\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{%

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\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
% 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.
\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\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

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```

% 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 \lisppar.
\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 ...'.
%
\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.
\top 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\nofillexdent{\advance \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}
%
% @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}
\def\parseinmargin#1,#2,#3\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
\def\righttext{#1}%
\fi
%
\ifodd\pageno
\def\temp{\inrightmargin\righttext}% odd page -> outside is right margin
\else
\def\temp{\inleftmargin\lefttext}%
\fi
\temp
}

```

```

% @| inserts a changebar to the left of the current line. It should
% surround any changed text. This approach does *not* work if the
% change spans more than two lines of output. To handle that, we would
% have adopt a much more difficult approach (putting marks into the main
% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
%

```

```

\def|{%
% \vadjust can only be used in horizontal mode.
\leavevmode
%
% 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 height\baselineskip 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
\ifnum\centerpenalty>10000 \vskip\parskip \fi
\ifnum\centerpenalty>9999 \penalty\centerpenalty \fi
\line{\kern\leftskip #1\kern\rightskip}%
}

% @sp n outputs n lines of vertical space
%
\parseargdef\sp{\vskip #1\baselineskip}

```

```

% @comment ...line which is ignored...
% @c is the same as @comment
% @ignore ... @end ignore is another way to write a comment
%
\def\comment{\begingroup \catcode\^^M=\other%
\catcode\@=\other \catcode\{=\other \catcode\}= \other%
\commentxxx}
{\catcode\^^M=\other \gdef\commentxxx#1^^M{\endgroup}}
%
\let\c=\comment

% @paragraphindent NCHARS
% We'll use ems for NCHARS, close enough.
% NCHARS can also be the word `asis' or `none'.
% We cannot feasibly implement @paragraphindent asis, though.
%
\def\asisword{asis} % no translation, these are keywords
\def\noneword{none}
%
\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
\let\suppressfirstparagraphindent = \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\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 '\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
  \let\setfilename=\comment % Ignore extra @setfilename cmds.
  %
  % If texinfo.cnf is present on the system, read it.
  % Useful for site-wide @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}%
}

```

```

% @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
\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\pdfscapestring\thisisundefined
  % No primitive available; should we give a warning or log?
  % Many times it won't matter.
\else
  % The expandable \pdfscapestring primitive escapes parentheses,
  % backslashes, and other special chars.
  \xdef#1{\pdfscapestring{#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\pdfsetcolor#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\setcolor#1{%
  \xdef\lastcolordefs{\gdef\noexpand\thiscolor{#1}}%
  \domark
  \pdfsetcolor{#1}%
}
%
\def\maincolor{\rgbBlack}
\pdfsetcolor{\maincolor}
\edef\thiscolor{\maincolor}
\def\lastcolordefs{}
%
\def\makefootline{%
  \baselineskip24pt
  \line{\pdfsetcolor{\maincolor}\the\footline}%
}
%
\def\makeheadline{%
  \vbox to 0pt{%

```

```

\vskip-22.5pt
\line{%
  \vbox to8.5pt{ }%
  % Extract \thiscolor definition from the marks.
  \getcolormarks
  % Typeset the headline with \maincolor, then restore the color.
  \pdfsetcolor{\maincolor}\the\headline\pdfsetcolor{\thiscolor}%
}%
\vss
}%
\nointerlineskip
}
%
%
\pdfcatalog{/PageMode /UseOutlines}
%
% #1 is image name, #2 width (might be empty/whitespace), #3 height (ditto).
\def\dopdfimage#1#2#3{%
  \def\pdfimagewidth{#2}\setbox0 = \hbox{\ignorespaces #2}%
  \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 \gdef\pdfimgext{JPG}%
  \fi
  \else \gdef\pdfimgext{jpeg}%
  \fi
  \else \gdef\pdfimgext{jpg}%
  \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 \pdfastximage
\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\cscname#1\endcscname\relax 0%
  \else \cscname#1\endcscname \fi}
\def\advancenumber#1{\tempnum=\expnumber{#1}\relax
  \advance\tempnum by 1
  \expandafter\xdef\cscname#1\endcscname{\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 subsections). #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.
\edef\pdfoutlinedest{#3}%
\ifx\pdfoutlinedest\empty
\def\pdfoutlinedest{#4}%
\else
\txiescapepdf\pdfoutlinedest
\fi
%
% Also escape PDF chars in the display string.
\edef\pdfoutlinetext{#1}%
\txiescapepdf\pdfoutlinetext
%
\pdfoutline goto name{\pdfmkpgn{\pdfoutlinedest}}#2{\pdfoutlinetext}%
}
%
\def\pdfmakeoutlines{%
\begingroup
% 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{%
\def\thischapnum{##2}%
\def\thissecnum{0}%
\def\thissubsecnum{0}%
}%
\def\numsecentry##1##2##3##4{%
\advancenumber{chap\thischapnum}%
\def\thissecnum{##2}%
\def\thissubsecnum{0}%
}%
\def\numsubsecentry##1##2##3##4{%
\advancenumber{sec\thissecnum}%
\def\thissubsecnum{##2}%
}%
\def\numsubsubsecentry##1##2##3##4{%
\advancenumber{subsec\thissubsecnum}%
}%
\def\thischapnum{0}%
\def\thissecnum{0}%

```

```

\def\thissubsecnum{0}%
%
% use \def rather than \let here because we redefine \chapentry et
% al. a second time, below.
\def\appentry{\numchapentry}%
\def\appsecentry{\numsecentry}%
\def\appsubsecentry{\numsubsecentry}%
\def\appsubsubsecentry{\numsubsubsecentry}%
\def\unnchapentry{\numchapentry}%
\def\unnsecentry{\numsecentry}%
\def\unnsubsecentry{\numsubsecentry}%
\def\unnsubsubsecentry{\numsubsubsecentry}%
\readdatafile{toc}%
%
% Read toc second time, this time actually producing the outlines.
% The `-' means take the \expnumber as the absolute number of
% subentries, which we calculated on our first read of the .toc above.
%
% We use the node names as the destinations.
\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{% count is always zero
  \dopdfoutline{##1}{}{##3}{##4}}%
%
% 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 (Oxea) gets translated to a | character. Info from
% Staszek Wawrykiewicz, 19 Jan 2004 04:09:24 +0100.
%
% TODO this right, 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\{\lbracketcharliteral}%
\def\}\rbracketcharliteral}%
\catcode`\|= \active \otherbackslash
\input \tocreadfilename
\endgroup

```



```

}
{\catcode`[=1 \catcode`=2
\catcode`{=\other \catcode`}=\other
\gdef\lbracecharliteral[{}]%
\gdef\rbracecharliteral[}%
]
%
\def\skipspace#1{\def\PP{#1}\def\D{}}%
\ifx\PP\D\let\nextsp\relax
\else\let\nextsp\skipspace
\addtokens{\filename}{\PP}%
\advance\filenamelen by 1
\fi
\nextsp}
\def\getfilename#1{%
\filenamelen=0
% If we don't expand the argument now, \skipspace will get
% snagged on things like "@value{foo}".
\edef\temp{#1}%
\expandafter\skipspace\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\adn0
\else\ifx\first1\adn1 \else\ifx\first2\adn2 \else\ifx\first3\adn3
\else\ifx\first4\adn4 \else\ifx\first5\adn5 \else\ifx\first6\adn6
\else\ifx\first7\adn7 \else\ifx\first8\adn8 \else\ifx\first9\adn9
\else
\ifnum0=\countA\else\makelink\fi
\ifx\first.\let\next=\done\else
\let\next=\maketoks
\addtokens{\toksB}{\the\toksD}
\ifx\first,\addtokens{\toksB}{\space}\fi
\fi
\fi\fi\fi\fi\fi\fi\fi\fi\fi
\next}
\def\makelink{\addtokens{\toksB}%
{\noexpand\pdfink{\the\toksC}}\toksC={}\global\countA=0}
\def\pdfink#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 % \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=\tffam \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 = \baselinefactor\dimen0
  \normallineskip = \lineskipfactor\normalbaselineskip
  \normalbaselines
  \setbox\strutbox =\hbox{%
    \vrule width0pt height\strutheightpercent\baselineskip
    depth \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

% 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.)
\ifpdf \ifx\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
begincmap
/CIDSystemInfo
<< /Registry (TeX)
/Ordering (OT1)
/Supplement 0
>> def
/CMapName /TeX-OT1-0 def
/CMapType 2 def
1 begincodespacerange
<00> <7F>
endcodespacerange
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
<02> <0398>
<03> <039B>
<04> <039E>
<05> <03A0>
<06> <03A3>
<07> <03D2>
<08> <03A6>
<0B> <00660066>

```

```

<0C> <00660069>
<0D> <0066006C>
<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>
<21> <0021>
<22> <201D>
<27> <2019>
<3C> <00A1>
<3D> <003D>
<3E> <00BF>
<5C> <201C>
<5F> <02D9>
<60> <2018>
<7D> <02DD>
<7E> <007E>
<7F> <00A8>
endbfchar
endcmap
CMapName currentdict /CMap defineresource pop
end
end
%%EndResource
%%EOF
}endgroup
\expandafter\edef\csname cmapOT1\endcsname#1{%
\pdffontattr#1{/ToUnicode \the\pdflastobj\space 0 R}%
}%
%
% \cmapOT1IT
\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-OT1IT-0)
%%Title: (TeX-OT1IT-0 TeX OT1IT 0)
%%Version: 1.000
%%EndComments
/CIDInit /ProcSet findresource begin
12 dict begin
begincmap
/CIDSystemInfo
<< /Registry (TeX)
/Ordering (OT1IT)
/Supplement 0
>> def
/CMapName /TeX-OT1IT-0 def
/CMapType 2 def
1 begincodespacerange
<00> <7F>
endcodespacerange
8 beginbfrange
<00> <01> <0393>
<09> <0A> <03A8>
<25> <26> <0025>
<28> <3B> <0028>
<3F> <5B> <003F>
<5D> <5E> <005D>
<61> <7A> <0061>
<7B> <7C> <2013>
endbfrange
42 beginbfchar
<02> <0398>
<03> <039B>
<04> <039E>
<05> <03A0>
<06> <03A3>
<07> <03D2>
<08> <03A6>
<0B> <00660066>
<0C> <00660069>
<0D> <0066006C>
<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>
<21> <0021>
<22> <201D>
<23> <0023>
<24> <00A3>
<27> <2019>
<3C> <00A1>
<3D> <003D>
<3E> <00BF>
<5C> <201C>
<5F> <02D9>
<60> <2018>
<7D> <02DD>
<7E> <007E>
<7F> <00A8>
endbfchar
endcmap
CMapName currentdict /CMap defineresource pop
end
end
%%EndResource
%%EOF
}endgroup
\expandafter\edef\csname cmapOT1IT\endcsname#1{%
\pdffontattr#1{/ToUnicode \the\pdfastobj\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
%%DocumentNeededResources: ProcSet (CIDInit)
%%IncludeResource: ProcSet (CIDInit)
%%BeginResource: CMap (TeX-OT1TT-0)
%%Title: (TeX-OT1TT-0 TeX OT1TT 0)
%%Version: 1.000
%%EndComments
/CIDInit /ProcSet findresource begin
12 dict begin

```

```

begincmap
/CIDSystemInfo
<< /Registry (TeX)
/Ordering (OT1TT)
/Supplement 0
>> def
/CMAPName /TeX-OT1TT-0 def
/CMAPType 2 def
1 begincodespacerange
<00> <7F>
endcodespacerange
5 beginbfrange
<00> <01> <0393>
<09> <0A> <03A8>
<21> <26> <0021>
<28> <5F> <0028>
<61> <7E> <0061>
endbfrange
32 beginbfchar
<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\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.
\let\cmap\gobble
%
% (end of cmap)

% 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\rmshape{bx} % where the normal face is bold
\def\bfshape{b}
\def\bxshape{bx}
\def\ttshape{tt}

```

```

\def\ttshape{tt}
\def\ttshape{sltt}
\def\itshape{ti}
\def\itshape{bxti}
\def\slshape{sl}
\def\slshape{bxsl}
\def\sfshape{ss}
\def\sfshape{ss}
\def\scshape{csc}
\def\scshape{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}
\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\textsc\scshape{10}{\mainmagstep}{OT1}
\setfont\textttsl\ttshape{10}{\mainmagstep}{OT1TT}
\font\texti=cmmi10 scaled \mainmagstep
\font\textsy=cmsy10 scaled \mainmagstep
\def\textecsize{1095}

% A few fonts for @defun names and args.
\setfont\defbf\bfshape{10}{\magstep1}{OT1}
\setfont\deftt\ttshape{10}{\magstep1}{OT1TT}
\setfont\deftsl\slshape{10}{\magstep1}{OT1TT}
\def\df{\let\tentt=\deftt \let\tenbf = \defbf \let\tenttsl=\deftsl \bf}

% Fonts for indices, footnotes, small examples (9pt).
\def\smallnominalsize{9pt}
\setfont\smallrm\rmshape{9}{1000}{OT1}
\setfont\smalltt\ttshape{9}{1000}{OT1TT}
\setfont\smallbf\bfshape{10}{900}{OT1}
\setfont\smallit\itshape{9}{1000}{OT1IT}
\setfont\smallsl\slshape{9}{1000}{OT1}
\setfont\smallsf\sfshape{9}{1000}{OT1}
\setfont\smallsc\scshape{10}{900}{OT1}
\setfont\smallttsl\ttshape{10}{900}{OT1TT}
\font\smalli=cmmi9
\font\smallsy=cmsy9
\def\smallecsize{0900}

```

```

% Fonts for small examples (8pt).
\def\smallernominalsize{8pt}
\setfont\smallerrm\rmshape{8}{1000}{OT1}
\setfont\smallertt\ttshape{8}{1000}{OT1TT}
\setfont\smallerbf\bfshape{10}{800}{OT1}
\setfont\smallerit\itshape{8}{1000}{OT1IT}
\setfont\smallersl\slshape{8}{1000}{OT1}
\setfont\smallersf\sfshape{8}{1000}{OT1}
\setfont\smallersc\scshape{10}{800}{OT1}
\setfont\smallerttsl\ttslshape{10}{800}{OT1TT}
\font\smalleri=cmmi8
\font\smallersy=cmsy8
\def\smallerecsize{0800}

% Fonts for title page (20.4pt):
\def\titlenominalsize{20pt}
\setfont\titleterm\rmbshape{12}{\magstep3}{OT1}
\setfont\titleit\itbshape{10}{\magstep4}{OT1IT}
\setfont\titlesl\slbshape{10}{\magstep4}{OT1}
\setfont\titlett\ttbshape{12}{\magstep3}{OT1TT}
\setfont\titletsl\ttslshape{10}{\magstep4}{OT1TTT}
\setfont\titlesf\sfbshape{17}{\magstep1}{OT1}
\let\titlebf=\titleterm
\setfont\titlesc\scbshape{10}{\magstep4}{OT1}
\font\titlei=cmmi12 scaled \magstep3
\font\titlesy=cmsy10 scaled \magstep4
\def\titleecsize{2074}

% Chapter (and unnumbered) fonts (17.28pt).
\def\chapnominalsize{17pt}
\setfont\chaprm\rmbshape{12}{\magstep2}{OT1}
\setfont\chapit\itbshape{10}{\magstep3}{OT1IT}
\setfont\chapsl\slbshape{10}{\magstep3}{OT1}
\setfont\chaptt\ttbshape{12}{\magstep2}{OT1TT}
\setfont\chaptsl\ttslshape{10}{\magstep3}{OT1TTT}
\setfont\chapsf\sfbshape{17}{1000}{OT1}
\let\chapbf=\chaprm
\setfont\chapsc\scbshape{10}{\magstep3}{OT1}
\font\chapi=cmmi12 scaled \magstep2
\font\chapsy=cmsy10 scaled \magstep3
\def\chapecsize{1728}

% Section fonts (14.4pt).
\def\secnominalsize{14pt}
\setfont\secrm\rmbshape{12}{\magstep1}{OT1}
\setfont\secit\itbshape{10}{\magstep2}{OT1IT}
\setfont\secsl\slbshape{10}{\magstep2}{OT1}

```

```

\setfont\sectt\tbshape{12}{\magstep1}{OT1TT}
\setfont\secttsl\ttslshape{10}{\magstep2}{OT1TT}
\setfont\secsf\sfbshape{12}{\magstep1}{OT1}
\let\secbf\secrm
\setfont\secsc\scbshape{10}{\magstep2}{OT1}
\font\seci=cmmi12 scaled \magstep1
\font\secsy=cmsy10 scaled \magstep2
\def\sececsz{1440}

```

% Subsection fonts (13.15pt).

```

\def\ssecnominalsize{13pt}
\setfont\ssecrm\rmshape{12}{\magstephalf}{OT1}
\setfont\ssecit\itshape{10}{1315}{OT1IT}
\setfont\ssecsl\slshape{10}{1315}{OT1}
\setfont\ssectt\tbshape{12}{\magstephalf}{OT1TT}
\setfont\ssecttsl\ttslshape{10}{1315}{OT1TT}
\setfont\ssecsf\sfbshape{12}{\magstephalf}{OT1}
\let\ssecbf\ssecrm
\setfont\ssecsc\scbshape{10}{1315}{OT1}
\font\sseci=cmmi12 scaled \magstephalf
\font\ssecsy=cmsy10 scaled 1315
\def\ssececsz{1200}

```

% Reduced fonts for @acro in text (10pt).

```

\def\reducednominalsize{10pt}
\setfont\reducedrm\rmshape{10}{1000}{OT1}
\setfont\reducedtt\ttshape{10}{1000}{OT1TT}
\setfont\reducedbf\bfshape{10}{1000}{OT1}
\setfont\reducedit\itshape{10}{1000}{OT1IT}
\setfont\reducedsl\slshape{10}{1000}{OT1}
\setfont\reducedsf\sfbshape{10}{1000}{OT1}
\setfont\reducedsc\scshape{10}{1000}{OT1}
\setfont\reducedttsl\ttslshape{10}{1000}{OT1TT}
\font\reducedi=cmmi10
\font\reducedsy=cmsy10
\def\reducedecsz{1000}

```

\textleading = 13.2pt % line spacing for 11pt CM

\textfonts % reset the current fonts

\rm

} % end of 11pt text font size definitions, \definetextfontsize

% 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\definetextfontsize{%
% Text fonts (10pt).
\def\textnominalsize{10pt}
\edef\mainmagstep{1000}
\setfont\textrm\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\textsc\scshape{10}{\mainmagstep}{OT1}
\setfont\textttsl\ttslshape{10}{\mainmagstep}{OT1TT}
\font\texti=cmmi10 scaled \mainmagstep
\font\textsy=cmsy10 scaled \mainmagstep
\def\textecsize{1000}

% A few fonts for @defun names and args.
\setfont\defbf\bfshape{10}{\magstephalf}{OT1}
\setfont\deftt\ttshape{10}{\magstephalf}{OT1TT}
\setfont\defttsl\ttslshape{10}{\magstephalf}{OT1TT}
\def\df{\let\tentt=\deftt\let\tenbf=\defbf\let\tenttsl=\defttsl\bf}

% Fonts for indices, footnotes, small examples (9pt).
\def\smallnominalsize{9pt}
\setfont\smallrm\rmshape{9}{1000}{OT1}
\setfont\smalltt\ttshape{9}{1000}{OT1TT}
\setfont\smallbf\bfshape{10}{900}{OT1}
\setfont\smallit\itshape{9}{1000}{OT1IT}
\setfont\smallsl\slshape{9}{1000}{OT1}
\setfont\smallsf\sfshape{9}{1000}{OT1}
\setfont\smallsc\scshape{10}{900}{OT1}
\setfont\smallttsl\ttslshape{10}{900}{OT1TT}
\font\smalli=cmmi9
\font\smallsy=cmsy9
\def\smallecsize{0900}

% Fonts for small examples (8pt).
\def\smallernominalsize{8pt}
\setfont\smallerrm\rmshape{8}{1000}{OT1}
\setfont\smallertt\ttshape{8}{1000}{OT1TT}
\setfont\smallerbf\bfshape{10}{800}{OT1}
\setfont\smallerit\itshape{8}{1000}{OT1IT}
\setfont\smallersl\slshape{8}{1000}{OT1}
\setfont\smallersf\sfshape{8}{1000}{OT1}
\setfont\smallersc\scshape{10}{800}{OT1}
\setfont\smallerttsl\ttslshape{10}{800}{OT1TT}
\font\smalleri=cmmi8
\font\smallersy=cmsy8

```

```

\def\smallerecsize{0800}

% Fonts for title page (20.4pt):
\def\titlenominalsize{20pt}
\setfont\titlrm\rmbshape{12}{\magstep3}{OT1}
\setfont\titleit\itbshape{10}{\magstep4}{OT1IT}
\setfont\titlesl\slbshape{10}{\magstep4}{OT1}
\setfont\titlett\ttbshape{12}{\magstep3}{OT1TT}
\setfont\titletsl\ttslshape{10}{\magstep4}{OT1TT}
\setfont\titlesf\sfbshape{17}{\magstep1}{OT1}
\let\titlebf=\titlrm
\setfont\titlesc\scbshape{10}{\magstep4}{OT1}
\font\titlei=cmmi12 scaled \magstep3
\font\titlesy=cmsy10 scaled \magstep4
\def\titleecsize{2074}

% Chapter fonts (14.4pt).
\def\chapnominalsize{14pt}
\setfont\chaprm\rmbshape{12}{\magstep1}{OT1}
\setfont\chapit\itbshape{10}{\magstep2}{OT1IT}
\setfont\chapsl\slbshape{10}{\magstep2}{OT1}
\setfont\chaptt\ttbshape{12}{\magstep1}{OT1TT}
\setfont\chaptsl\ttslshape{10}{\magstep2}{OT1TT}
\setfont\chapsf\sfbshape{12}{\magstep1}{OT1}
\let\chapbf\chaprm
\setfont\chapsc\scbshape{10}{\magstep2}{OT1}
\font\chapi=cmmi12 scaled \magstep1
\font\chapsy=cmsy10 scaled \magstep2
\def\chapecsize{1440}

% Section fonts (12pt).
\def\secnominalsize{12pt}
\setfont\secrm\rmbshape{12}{1000}{OT1}
\setfont\secit\itbshape{10}{\magstep1}{OT1IT}
\setfont\secsl\slbshape{10}{\magstep1}{OT1}
\setfont\sectt\ttbshape{12}{1000}{OT1TT}
\setfont\secttsl\ttslshape{10}{\magstep1}{OT1TT}
\setfont\secsf\sfbshape{12}{1000}{OT1}
\let\secbf\secrm
\setfont\secsc\scbshape{10}{\magstep1}{OT1}
\font\seci=cmmi12
\font\secsy=cmsy10 scaled \magstep1
\def\sececcsize{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\tbshape{10}{1000}{OT1TT}
\setfont\ssectts\ttshape{10}{1000}{OT1TT}
\setfont\ssecsf\sfbshape{10}{1000}{OT1}
\let\ssecbf\ssecrm
\setfont\ssecsc\scbshape{10}{1000}{OT1}
\font\sseci=cmmi10
\font\ssecsy=cmsy10
\def\ssececsz{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\reducedtts\ttshape{10}{900}{OT1TT}
\font\reducedi=cmmi9
\font\reducedsy=cmsy9
\def\reducedecsz{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, \definertextfontsize

% We provide the user-level command
% @fonttextsize 10
% (or 11) to redefine the text font size. pt is assumed.
%
\def\xiword{11}
\def\xword{10}
\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 \definertextfontsize

```

```

\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\bfam=\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 \size (one size lower)
% and \llsize (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\size{reduced}\def\llsize{smaller}%
\resetmathfonts \setleading{\textleading}}
\def\titlefonts{%
\let\tenrm=\titlrm \let\tenit=\titleit \let\tensl=\titlesl
\let\tenbf=\titlebf \let\tentt=\titlett \let\smallcaps=\titlesc
\let\tensf=\titlesf \let\teni=\titlei \let\tensy=\titlesy
\let\tenttsl=\titlettsl
\def\curfontsize{title}%
\def\size{chap}\def\llsize{subsec}%
\resetmathfonts \setleading{27pt}}

```



```

\def\titelfont#1 { {\titlefonts\rmisbold #1 } }
\def\chapfont{ %
\let\tenrm=\chaprm \let\tenit=\chapit \let\tenl=\chapsl
\let\tenbf=\chapbf \let\tentt=\chaptt \let\smallcaps=\chapsc
\let\tenmf=\chapsf \let\teni=\chapi \let\teny=\chapsy
\let\tenttsl=\chaptsl
\def\curfontsize { chap } %
\def\lsize { sec } \def\llsize { text } %
\resetmathfonts \setleading { 19pt } }
\def\secfont{ %
\let\tenrm=\secrm \let\tenit=\secit \let\tenl=\secsl
\let\tenbf=\secbf \let\tentt=\sectt \let\smallcaps=\secsc
\let\tenmf=\secsf \let\teni=seci \let\teny=secsy
\let\tenttsl=sectsl
\def\curfontsize { sec } %
\def\lsize { subsec } \def\llsize { reduced } %
\resetmathfonts \setleading { 16pt } }
\def\subsecfont{ %
\let\tenrm=\ssecrm \let\tenit=\ssecit \let\tenl=\ssecsl
\let\tenbf=\ssecbf \let\tentt=\ssectt \let\smallcaps=\sseccsc
\let\tenmf=\ssecsf \let\teni=sseci \let\teny=ssecsy
\let\tenttsl=ssectsl
\def\curfontsize { ssec } %
\def\lsize { text } \def\llsize { small } %
\resetmathfonts \setleading { 15pt } }
\let\subsubsecfont = \subsecfont
\def\reducedfont{ %
\let\tenrm=\reducedrm \let\tenit=\reducedit \let\tenl=\reducedsl
\let\tenbf=\reducedbf \let\tentt=\reducedtt \let\reducedcaps=\reducedsc
\let\tenmf=\reducedsf \let\teni=reducedi \let\teny=reducedsy
\let\tenttsl=reducedttsl
\def\curfontsize { reduced } %
\def\lsize { small } \def\llsize { smaller } %
\resetmathfonts \setleading { 10.5pt } }
\def\smallfont{ %
\let\tenrm=\smallrm \let\tenit=\smallit \let\tenl=\smallsl
\let\tenbf=\smallbf \let\tentt=\smalltt \let\smallcaps=\smallsc
\let\tenmf=\smallsf \let\teni=smalli \let\teny=smallsy
\let\tenttsl=smallttsl
\def\curfontsize { small } %
\def\lsize { smaller } \def\llsize { smaller } %
\resetmathfonts \setleading { 10.5pt } }
\def\smallerfont{ %
\let\tenrm=\smallerrm \let\tenit=\smallerit \let\tenl=\smallersl
\let\tenbf=\smallerbf \let\tentt=\smallertt \let\smallcaps=\smallersc
\let\tenmf=\smallersf \let\teni=smalleri \let\teny=smallersy
\let\tenttsl=smallerttsl
\def\curfontsize { smaller } %

```

```

\def\size{smaller}\def\llsize{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{${\angle}$}
\def\angleright{${\rangle}$}

% Set the fonts to use with the @small... environments.
\let\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. \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
}

\let\markupstylesetup\empty

\def\defmarkupstylesetup#1{%
\expandafter\def\expandafter\markupstylesetup
\expandafter{\markupstylesetup #1}%
\def#1%
}

% Markup style setup for left and right quotes.
\defmarkupstylesetup\markupsetuplq{%
\expandafter\let\expandafter \temp
\csname markupsetuplq\currentmarkupstyle\endcsname
\ifx\temp\relax \markupsetuplqdefault \else \temp \fi
}

\defmarkupstylesetup\markupsetuprq{%
\expandafter\let\expandafter \temp
\csname markupsetuprq\currentmarkupstyle\endcsname
\ifx\temp\relax \markupsetuprqdefault \else \temp \fi
}

{
\catcode`\'=active
\catcode`\`=active

\gdef\markupsetuplqdefault{\let\lq}
\gdef\markupsetuprqdefault{\let\rq}

```

```

\gdef\markupsetcodequoteleft{\let\codequoteleft}
\gdef\markupsetcodequoteright{\let\codequoteright}
}

\let\markupsetuplqcode \markupsetcodequoteleft
\let\markupsetuprqcode \markupsetcodequoteright
%
\let\markupsetuplqexample \markupsetcodequoteleft
\let\markupsetuprqexample \markupsetcodequoteright
%
\let\markupsetuplqkbd \markupsetcodequoteleft
\let\markupsetuprqkbd \markupsetcodequoteright
%
\let\markupsetuplqsamp \markupsetcodequoteleft
\let\markupsetuprqsamp \markupsetcodequoteright
%
\let\markupsetuplqverb \markupsetcodequoteleft
\let\markupsetuprqverb \markupsetcodequoteright
%
\let\markupsetuplqverbatim \markupsetcodequoteleft
\let\markupsetuprqverbatim \markupsetcodequoteright

% 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 disables Spanish ligatures ?` and !` of \tt font.
\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
}
%
\parseargdef\codequotebacktick{%
\def\temp{#1}%
\ifx\temp\onword
\expandafter\let\csname SETtxicodequotebacktick\endcsname
= t%
\else\ifx\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{%
  \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
% ttsl 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

% @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 =\@m \sfcode\commaChar =\@m
  \def\endofsentencespacefactor{1000}% for @. and friends
}
\def\plainnonfrenchspacing{%
  \sfcode`.3000\sfcode`\.?3000\sfcode`!\3000
  \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\close{#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\close#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 = Opt{ } } }%
%
% 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
}
}

\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{\ifinmode
  \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 `t\xiarg', 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 `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.
\def\urefbreak{\begingroup \urefcatcodes \dourefbreak}
\let\uref=\urefbreak
\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}%
\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\ (\urefcode{#1})% DVI: 2nd arg given, show both it and url
    \fi
  \else
    \urefcode{#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

```

```

}
{
\urefcacodes
%
\global\def\urefcode{\begingroup
\setupmarkupstyle{code}%
\urefcacodes
\let&\urefcodeamp
\let.\urefcodedot
\let#\urefcodehash
\let?\urefcodequest
\let^\urefcodeslash
\codex
}
%
% By default, they are just regular characters.
\global\def&{\normalamp}
\global\def. {\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{\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\urefcodeslashfinish{%
\urefprestretch \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.
%
\let\url=\uref

% rms does not like angle brackets --karl, 17may97.
% So now @email is just like @uref, unless we are pdf.
%
%\def\email#1{\angleleft{\tt #1}\angleright}
\ifpdf
\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).
\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\kbds\look??\par}}

\def\xkey{\key}
\def\kbds#1#2#3\par{%
\def\one{#1}\def\three{#3}\def\three{??}%
\ifx\one\xkey\ifx\three\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\textfont2=\keysy\leavevmode\hbox{%
%\raise0.4pt\hbox{\angleleft}\kern-.08em\vtop{%
%\vbox{\hrule\kern-0.4pt
%\hbox{\raise0.4pt\hbox{\vphantom{\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.
%
\def\key#1{{\setupmarkupstyle{key}%
\nohyphenation
\ifmonospace\else\tt\fi
#1}\null}

% @clicksequence{File @click{ } Open ...}
\def\clicksequence#1{\begingroup #1\endgroup}

```

```

% @clickstyle @arrow (by default)
\parseargdef\clickstyle{\def\click{#1}}
\def\click{\arrow}

% Typeset a dimension, e.g., `in' or `pt'. The only reason for the
% argument is to make the input look right: @dmn{pt} instead of @dmn{}pt.
%
\def\dmn#1{\thinspace #1}

% @l was never documented to mean ``switch to the Lisp font",
% and it is not used as such in any manual I can find. We need it for
% Polish suppressed-l. --karl, 22sep96.
%\def\l#1{\li #1}\null}

% @acronym for "FBI", "NATO", and the like.
% We print this one point size smaller, since it's intended for
% all-uppercase.
%
\def\acronym#1{\doacronym #1,.\finish}
\def\doacronym#1,#2,#3\finish{%
  {\selectfonts\lsize #1}%
  \def\temp{#2}%
  \ifx\temp\empty \else
    \space ({\unsepspaces \ignorespaces \temp \unskip})%
  \fi
  \null % reset \spacefactor=1000
}

% @abbr for "Comput. J." and the like.
% No font change, but don't do end-of-sentence spacing.
%
\def\abbr#1{\doabbr #1,.\finish}
\def\doabbr#1,#2,#3\finish{%
  {\plainfrenchspacing #1}%
  \def\temp{#2}%
  \ifx\temp\empty \else
    \space ({\unsepspaces \ignorespaces \temp \unskip})%
  \fi
  \null % reset \spacefactor=1000
}

% @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 \sifam,
% which is what @var uses.
{
\catcode`\_ = \active
\gdef\mathunderscore{%
\catcode`\_ = \active
\def_{\ifnum\fam=\sifam \_ \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{\ifnum\fam=\ttfam \mathchar"075C \else\backslash \fi}
%
\def\math{%
\text
\mathunderscore
\let\ = \mathbackslash
\mathactive
% make the texinfo accent commands work in math mode
\let"=\ddot
\let'=\acute
\let==\bar
\let^=\hat
\let`=\grave
\letu=\breve
\letv=\check
\let\~=\tilde
\let\dotaccent=\dot
$\finishmath
}
\def\finishmath#1{#1$\endgroup} % Close the group opened by \text.

% 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\ctrl #1{{\tt \rawbackslash \hat}#1}

% @inlinfmt{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{tex}
%
\long\def\inlinfmt#1{\doinlinfmt #1,\finish}
\long\def\doinlinfmt#1,#2,\finish{%
\def\inlinfmtname{#1}%
\ifx\inlinfmtname\outfmtnametex \ignorespaces #2\fi
}
% For raw, must switch into @tex before parsing the argument, to avoid
% setting catcodes prematurely. Doing it this way means that, for
% example, @inlineraw{html, foo{bar} gets a parse error instead of being
% ignored. But this isn't important because if people want a literal
% *right* brace they would have to use a command anyway, so they may as
% well use a command to get a left brace too. We could re-use the
% delimiter character idea from \verb, but it seems like overkill.
%
\long\def\inlineraw{\tex \doinlineraw}
\long\def\doinlineraw#1{\doinlinerawtwo #1,\finish}
\def\doinlinerawtwo#1,#2,\finish{%
\def\inlinerawname{#1}%
\ifx\inlinerawname\outfmtnametex \ignorespaces #2\fi
\endgroup % close group opened by \tex.
}

\message{glyphs,}
% and logos.

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

% @{ @ } @lbracechar{ } @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\mylbrace{ {\ifmonospace\else\ecfont\fi \char123} }
\def\myrbrace{ {\ifmonospace\else\ecfont\fi \char125} }
\let\{=\mylbrace \let\lbracechar=\{
\let\}=\myrbrace \let\rbracechar=\}
\begingroup
% Definitions to produce \{ and \} commands for indices,
% and @{ and @} for the aux/toc files.
\catcode`\{ = \other \catcode`\} = \other
\catcode`\[ = 1 \catcode`\] = 2
\catcode`\! = 0 \catcode`\\ = \other
!gdef!lbracecmd[{\}]%
!gdef!rbracecmd[}\]%
!gdef!lbraceatcmd[@{ ]}%
!gdef!rbraceatcmd[@} ]%
!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{ \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 LaTeX.
% Revert to plain's \scriptsize, which is 7pt.
\count255=\the\fam $\fam\count255 \scriptstyle A$%
\else
% For 11pt, we can use our \llsize.
\selectfonts\llsize A%
\fi
}%
\vss
}}%
\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}

% @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
}

% @point{ }, @result{ }, @expansion{ }, @print{ }, @equiv{ }.
%
% Since these characters are used in examples, they should be an even number of
% \tt widths. Each \tt character is 1em, so two makes it 1em.
%
\def\point{\star$}
\def\arrow{\leavevmode\raise.05ex\hbox to 1em{\hfil$\rightarrow$\hfil}}
\def\result{\leavevmode\raise.05ex\hbox to 1em{\hfil$\Rrightarrow$\hfil}}
\def\expansion{\leavevmode\hbox to 1em{\hfil$\mapsto$\hfil}}
\def\print{\leavevmode\lower.1ex\hbox to 1em{\hfil$\dashv$\hfil}}
\def\equiv{\leavevmode\hbox to 1em{\hfil$\ptexequiv$\hfil}}

% 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
  \hspace = \dimen0 \advance\hspace by -5.8pt % Space to left+right.
  \advance\hspace 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\vrule 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
% feybr - bold
% feybo - bold 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\eurossize{\csname\curfontsize nominalsized\endcsname}%
%
\ifx\curfontstyle\bfstylename
% bold:
\font\thiseurofont = \ifusingit{feybo10}{feybr10} at \eurossize

```

```

\else
  % regular:
  \font\thiseurofont = \ifusingit{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\alogonek
\else\ifx\temp\macrocharE\Eogonek
\else\ifx\temp\macrochare\elogonek
\else
\ecfont \setbox0=\hbox{#1}%
\ifdim\ht0=1ex\accent"0C #1%
\else\oalign{\unhbox0\cr\hidewidth\char"0C \hidewidth}%
\fi
\fi\fi\fi\fi
}%
}

```

```

\def\Aogonek{{\ecfont \char"81}}\def\macrocharA{A}
\def\aoogonek{{\ecfont \char"A1}}\def\macrochara{a}
\def\Eogonek{{\ecfont \char"86}}\def\macrocharE{E}
\def\eoogonek{{\ecfont \char"A6}}\def\macrochare{e}
%
% Use the ec* fonts (cm-super in outline format) for non-CM glyphs.
\def\ecfont{%
% We can't distinguish serif/sans and italic/slanted, but this
% is used for crude hacks anyway (like adding French and German
% quotes to documents typeset with CM, where we lose kerning), so
% hopefully nobody will notice/care.
\edef\ecsize{\csname\curfontsize\ecsize\endcsname}%
\edef\nominalsize{\csname\curfontsize\nominalsize\endcsname}%
\ifmonospace
% typewriter:
\font\thisecfont = ectt\ecsize \space at \nominalsize
\else
\ifx\curfontstyle\bfstylename
% bold:
\font\thisecfont = ecb\ifusingit{i}{x}\ecsize \space at \nominalsize
\else
% regular:
\font\thisecfont = ec\ifusingit{ti}{rm}\ecsize \space at \nominalsize
\fi
\fi
\thisecfont
}

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

% @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.
\newif\ifseenauthor
\newif\iffinishedtitlepage

% Do an implicit @contents or @shortcontents after @end titlepage if the
% user says @setcontentsaftertitlepage or @setshortcontentsaftertitlepage.
%
\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 \textfont5
% 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
% 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
%
% 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 \rmisbold. \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
\ptextraggedright
}

% Macros to be used within @titlepage:

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

\parseargdef\title{%
\checkenv\titlepage
\vbox{\titlefonts \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{%
\def\temp{\quotation}%
\ifx\thisenv\temp
\def\quotationauthor{#1}% printed in \Equotation.
\else
\checkenv\titlepage
\ifseenauthor\else \vskip 0pt plus 1filll \seenauthortrue \fi
{\secfonts\rmisbold \leftline{#1}}%
\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\oddfotline % 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}} }

\parseargdef\everyheading{\oddheadingxxx{#1}\evenheadingxxx{#1}}%

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

\def\evenheadingmarks{\headingmarks{even}{heading}}
\def\oddheadingmarks{\headingmarks{odd}{heading}}
\def\evenfootingmarks{\headingmarks{even}{footing}}
\def\oddfootingmarks{\headingmarks{odd}{footing}}
\def\everyheadingmarks#1 {\headingmarks{even}{heading}{#1}
\headingmarks{odd}{heading}{#1}}
\def\everyfootingmarks#1 {\headingmarks{even}{footing}{#1}
\headingmarks{odd}{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}%
}

\def\HEADINGSoff{ {\globaldefs=1 \headingsoff} } % global setting
\HEADINGSoff % it's the default

% 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 = \chapoddpager
}
\let\contentsalignmacro = \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}}
\global\oddheadline={\line{\thischapter\hfil\folio}}
\global\let\contentsalignmacro = \chappager
}
\def\HEADINGSon{\HEADINGSdouble}

\def\HEADINGSafter{\let\HEADINGSshook=\HEADINGSdoublex}
\let\HEADINGSdoubleafter=\HEADINGSafter
\def\HEADINGSdoublex{%
\global\evenfootline={\hfil}
\global\oddfootline={\hfil}
\global\evenheadline={\line{\folio\hfil\thistitle}}
\global\oddheadline={\line{\thischapter\hfil\folio}}
\global\let\contentsalignmacro = \chapoddpager
}

\def\HEADINGSsingleafter{\let\HEADINGSshook=\HEADINGSsinglex}
\def\HEADINGSsinglex{%
\global\evenfootline={\hfil}
\global\oddfootline={\hfil}
\global\evenheadline={\line{\thischapter\hfil\folio}}
\global\oddheadline={\line{\thischapter\hfil\folio}}
\global\let\contentsalignmacro = \chappager
}

% 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).

% default indentation of table text
\newdimen\tableindent \tableindent=.8in
% default indentation of @itemize and @enumerate text
\newdimen\itemindent \itemindent=.3in
% margin between end of table item and start of table text.
\newdimen\itemmargin \itemmargin=.1in

% used internally for \itemindent minus \itemmargin
\newdimen\itemmax

% Note @table, @ftable, and @vtable define @item, @itemx, etc., with
% these defs.
% They also define \itemindex
% to index the item name in whatever manner is desired (perhaps none).

\newif\ifitemxneedsnegativevskip

\def\itemxpar{\par\ifitemxneedsnegativevskip\nobreak\vskip-\parskip\nobreak\fi}

\def\internalBitem{\smallbreak \parsearg\itemzzz}
\def\internalBitemx{\itemxpar \parsearg\itemzzz}

\def\itemzzz #1{\begingroup %
\advance\hspace by -\rightskip
\advance\hspace by -\tableindent
\setbox0=\hbox{\itemindicate{#1}}%
\itemindex{#1}%
\nobreak % This prevents a break before @itemx.
%

```

```

% If the item text does not fit in the space we have, put it on a line
% by itself, and do not allow a page break either before or after that
% line. We do not start a paragraph here because then if the next
% command is, e.g., @kindex, the whatsit would get put into the
% horizontal list on a line by itself, resulting in extra blank space.
\ifdim \wd0>\itemmax
%
% Make this a paragraph so we get the \parskip glue and wrapping,
% but leave it ragged-right.
\begingroup
\advance\leftskip by-\tableindent
\advance\hsize by\tableindent
\advance\rightskip by0pt plus1fil\relax
\leavevmode\unhbox0\par
\endgroup
%
% We're going to be starting a paragraph, but we don't want the
% \parskip glue -- logically it's part of the @item we just started.
\nobreak \vskip-\parskip
%
% Stop a page break at the \parskip glue coming up. However, if
% what follows is an environment such as @example, there will be no
% \parskip glue; then the negative vskip we just inserted would
% cause the example and the item to crash together. So we use this
% bizarre value of 10001 as a signal to \aboveenvbreak to insert
% \parskip glue after all. Section titles are handled this way also.
%
\penalty 10001
\endgroup
\itemxneedsnegativevskipfalse
\else
% The item text fits into the space. Start a paragraph, so that the
% following text (if any) will end up on the same line.
\noindent
% Do this with kerns and \unhbox so that if there is a footnote in
% the item text, it can migrate to the main vertical list and
% eventually be printed.
\nobreak\kern-\tableindent
\dimen0 = \itemmax \advance\dimen0 by \itemmargin \advance\dimen0 by -\wd0
\unhbox0
\nobreak\kern\dimen0
\endgroup
\itemxneedsnegativevskiptrue
\fi
}

\def\item{\errmessage{\@item while not in a list environment}}
\def\itemx{\errmessage{\@itemx while not in a list environment}}

```

```

% @table, @ftable, @vtable.
\envdef\table{%
\let\itemindex\gobble
\tablecheck{table}%
}
\envdef\ftable{%
\def\itemindex##1{\doind{fn}{\code{##1}}}%
\tablecheck{ftable}%
}
\envdef\vtable{%
\def\itemindex##1{\doind{vr}{\code{##1}}}%
\tablecheck{vtable}%
}
\def\tablecheck#1{%
\ifnum \the\catcode\^^M=\active
\endgroup
\errmessage{This command won't work in this context; perhaps the problem is
that we are \inenvironment\thisenv}%
\def\next{\doignore{#1}}%
\else
\let\next\tablex
\fi
\next
}
\def\tablex#1{%
\def\itemindicate{#1}%
\parsearg\tabley
}
\def\tabley#1{%
{%
\makevalueexpandable
\edef\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

% 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.
%
\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 \lcode is nonzero.
% An ``uppercase letter" is one whose \lcode 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\lcode\expandafter`\thearg=0\relax
\numericenumerate % a number (we hope)
\else
% It's a letter.

```

```

\ifnum\lcode\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}%
}

% 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\lcode\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
\global\setpercenttrue
\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\endcsname{\the\wd0}%
\fi
\fi
\ifx\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{\b}% for people to use in the template row; not changeable
\def\headitem{%
\checkenv\multitable
\crr
\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{%
\vskip\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 \crrc aka
% \endtemplate) expanding \doitemize.
\def\item{\crrc}%
%
\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.
\halign\bgroup &%
  \global\advance\colcount by 1
  \multistrut
  \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 user has 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

```

```

}
\def\Emultitable{%
\crr
\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,}

% @iftex, @ifnotdocbook, @ifnohtml, @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{ifnohtml}

```



```

\makecond{ifnotinfo}
\makecond{ifnotplaintext}
\makecond{ifnotxml}

% Ignore @ignore, @ifhtml, @ifinfo, and the like.
%
\def\direntry{\doignore{direntry}}
\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\ifxml{\doignore{ifxml}}
\def\ignore{\doignore{ignore}}
\def\menu{\doignore{menu}}
\def\xml{\doignore{xml}}

% 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 \doignoretext 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\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@#1##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\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^^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.
%
\parseargdef\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.
%
\parseargdef\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.
%
\makeond{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.
%
\makeond{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 be 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
}
\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

% @definfoenclose.
\let\definfoenclose=\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 \foindex such that
% \foindex ...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}}
}

% @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.
%
% @syncodeindex 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\csname donesynindex#2\endcsname = 1
\fi
% redefine \foinfile:
\expandafter\let\expandafter\temp\expandafter=\csname#3indfile\endcsname
\expandafter\let\csname#2indfile\endcsname=\temp
% redefine \foindex:
\expandafter\xdef\csname#2index\endcsname{\noexpand#1{#3}}%
}

% Define \doindex, the driver for all \foindex macros.
% Argument #1 is generated by the calling \foindex 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 \tex is in effect and \{ is a \delimiter again.
% We can't use \lbracecmd and \rbracecmd 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.
```

```
%
```

```
% 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\@{@@}%
```

```
\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}}%
\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
\definedummyword\ss
\definedummyword\th
%
% Although these internal commands shouldn't show up, sometimes they do.
\definedummyword\bf
\definedummyword\gtr
\definedummyword\hat
\definedummyword\less

```

```

\definedummyword\sf
\definedummyword\sl
\definedummyword\close
\definedummyword\tt
%
\definedummyword\LaTeX
\definedummyword\TeX
%
% Assorted special characters.
\definedummyword\arrow
\definedummyword\bullet
\definedummyword\comma
\definedummyword\copyright
\definedummyword\registersymbol
\definedummyword\dots
\definedummyword\enddots
\definedummyword\entrybreak
\definedummyword\equiv
\definedummyword\error
\definedummyword\euro
\definedummyword\expansion
\definedummyword\geq
\definedummyword\guillemetleft
\definedummyword\guillemetright
\definedummyword\guilsinglleft
\definedummyword\guilsinglright
\definedummyword\lbracechar
\definedummyword\leq
\definedummyword\minus
\definedummyword\ogonek
\definedummyword\pounds
\definedummyword\point
\definedummyword\print
\definedummyword\quotedblbase
\definedummyword\quotedblleft
\definedummyword\quotedblright
\definedummyword\quoteleft
\definedummyword\quoteright
\definedummyword\quotesinglbase
\definedummyword\rbracechar
\definedummyword\result
\definedummyword\textdegree
%
% 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\.%
\definedummyletter\/%
\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\cite
\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

```

%

```

\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\lbracechar{|a}%
%
\def}{|b}%
\def\rbracechar{|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\l{l}%
\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 SETtxiindex\quoteignore\endcsname\relax
\else \index\quoteignore \fi
%
% 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 txiindex\quoteignore makes us
% ignore left quotes in the sort term.
{\catcode`\`=\active
\gdef\index\quoteignore{\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{%
\iflinks
{%
% Store 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}%
%
\safewhatsit\dosubindwrite
}%
\fi
}

% Write the entry in \toks0 to the index file:
%
\def\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
\xdef\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
% @index 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
%
#1%
%
\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}%
%
\smallfont \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.
% Change them to control the appearance of the index.

\def\initial#1{ { %
  % Some minor font changes for the special characters.
  \let\tentt=\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
  \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
%
% A bit of stretch before each entry for the benefit of balancing
% columns.
\vskip 0pt plus 1pt
%
% 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.
  \setbox\boxA = \hbox{#1}%
  \ifdim\wd\boxA = 0pt
    \ %
  \else
    %
    % If we must, put the page number on a line of its own, and fill out
    % this line with blank space. (The \hfil is overwhelmed with the
    % fill leaders glue in \indexdotfill if the page number does fit.)
    \hfil\penalty50
    \null\nobreak\indexdotfill % Have leaders before the page number.
    %
    % The `\' here is removed by the implicit \unskip that TeX does as
    % part of (the primitive) \par. Without it, a spurious underfull
    % \hbox ensues.
    \ifpdf
\pdfgettoks#1.%
\ \the\toksA
\else
\ #1%
\fi
\fi
\par
\endgroup
}

% Like plain.tex's \dotfill, except uses up at least 1 em.
\def\indexdotfill{\cleaders
\hbox{\$ \mathsurround=0pt \mkern1.5mu.\mkern1.5mu\$}\hskip 1em plus 1fill}

```

```

\def\primary #1{\line{#1\hfil}}

\newskip\secondaryindent \secondaryindent=0.5cm
\def\secondary#1#2{ %
\parfillskip=0in
\parskip=0in
\hangindent=1in
\hangafter=1
\noindent\hskip\secondaryindent\hbox{#1}\indexdotfill
\ifpdf
\pdfgettoks#2.\the\toksA % The page number ends the paragraph.
\else
#2
\fi
\par
}}

% Define two-column mode, which we use to typeset indexes.
% Adapted from the TeXbook, page 416, which is to say,
% the manmac.tex format used to print the TeXbook itself.
\catcode\@=11

\newbox\partialpage
\newdimen\doublecolumnhsiz

\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
}%
}%
\ejct % 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, \doublecolumnhsiz, so we
% can restore it in \pagesofar, after \hsiz itself has (potentially)
% been clobbered.
%
\doublecolumnhsiz = \hsiz
  \advance\doublecolumnhsiz by -.04154\hsiz
  \divide\doublecolumnhsiz by 2
\hsiz = \doublecolumnhsiz
%
% 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{%
  \splittopskip=\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@ = \vsize
  \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.
\def\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 \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
\advance\dimen@ by \topskip
\advance\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.
{%
\badness = 10000
\loop
\global\setbox3 = \copy0
\global\setbox1 = \vsplit3 to \dimen@
\ifdim\ht3>\dimen@
\global\advance\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{%
\chapoddpag
\null
\vskip.3\vsiz % move it down on the page a bit
\begingroup
\noindent \titlefont\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
\chapoddpag
\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%
\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\fi\fi\fi\fi\fi\fi\fi}

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

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

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

% we only have subsub.
\chardef\maxseclvl = 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 = \maxseclvl
%
```

```

% 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:
\abssecclevel=#2
\advance\abssecclevel by \seccbase
% Make sure \abssecclevel doesn't fall outside the range:
\ifnum \abssecclevel < 0
\abssecclevel = 0
\else
\ifnum \abssecclevel > 3
\abssecclevel = 3
\fi
\fi
% The heading type:
\def\headtype{#1}%
\if \headtype U%
\ifnum \abssecclevel < \unnlevel
\chardef\unnlevel = \abssecclevel
\fi
\else
% Check for appendix sections:
\ifnum \abssecclevel = 0
\edef\chapheadtype{\headtype}%
\else
\if \headtype A\if \chapheadtype N%
\errmessage{ @appendix... within a non-appendix chapter}%
\fi\fi
\fi
% Check for numbered within unnumbered:
\ifnum \abssecclevel > \unnlevel
\def\headtype{U}%
\else
\chardef\unnlevel = 3
\fi
\fi
% Now print the heading:
\if \headtype U%
\ifcase\abssecclevel
\unnumberedzzz{#3}%
\or \unnumberedseczzz{#3}%
\or \unnumberedsubseczzz{#3}%

```

```

\or \unnumberedsubsubseczzz{#3}%
\fi
\else
\if \headtype A%
\ifcase\abssecclevel
\appendixzzz{#3}%
\or \appendixsectionzzz{#3}%
\or \appendixsubseczzz{#3}%
\or \appendixsubsubseczzz{#3}%
\fi
\else
\ifcase\abssecclevel
\chapterzzz{#3}%
\or \seczzz{#3}%
\or \numberedsubseczzz{#3}%
\or \numberedsubsubseczzz{#3}%
\fi
\fi
\fi
\suppressfirstparagraphindent
}

% 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)}%
%
\chaptersmacro{#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 \chaptersmacro is called at the outermost level.
% Thus we are safer this way: --kasal, 24feb04
\let\centerparametersmaybe = \centerparameters
\unmhead0{#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 appendixsectionzzz:
\outer\parseargdef\appendixsection{\apphead1{#1}}
\def\appendixsectionzzz#1{%
\global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
\sectionheading{#1}{sec}{Yappendix}{\appendixletter.\the\secno}%
}
\let\appendixsec\appendixsection

% normally calls unnumberedseczzz:
\outer\parseargdef\unnumberedsec{\unmhead1{#1}}
\def\unnumberedseczzz#1{%
\global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
\sectionheading{#1}{sec}{Ynothing}{\the\unnumberedno.\the\secno}%
}

```

```

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

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

% normally calls unnumberedsubseczzz:
\outer\parseargdef\unnumberedsubsec{\unnumhead2{#1}}
\def\unnumberedsubseczzz#1{%
  \global\subsubsecno=0 \global\advance\subsecno by 1
  \sectionheading{#1}{subsec}{Ynothing}%
  {\the\unnumberedno.\the\secno.\the\subsecno}%
}

% Subsubsections.
%
% normally numberedsubsubseczzz:
\outer\parseargdef\numberedsubsubsec{\numhead3{#1}}
\def\numberedsubsubseczzz#1{%
  \global\advance\subsubsecno by 1
  \sectionheading{#1}{subsubsec}{Ynumbered}%
  {\the\chapno.\the\secno.\the\subsecno.\the\subsubsecno}%
}

% normally appendixsubsubseczzz:
\outer\parseargdef\appendixsubsubsec{\apphead3{#1}}
\def\appendixsubsubseczzz#1{%
  \global\advance\subsubsecno by 1
  \sectionheading{#1}{subsubsec}{Yappendix}%
  {\appendixletter.\the\secno.\the\subsecno.\the\subsubsecno}%
}

% normally unnumberedsubsubseczzz:
\outer\parseargdef\unnumberedsubsubsec{\unnumhead3{#1}}
\def\unnumberedsubsubseczzz#1{%
  \global\advance\subsubsecno by 1
  \sectionheading{#1}{subsubsec}{Ynothing}%
}

```



```

        {\the\unnumberedno.\the\secno.\the\subsecno.\the\subsubsecno}%
    }

% These macros control what the section commands do, according
% to what kind of chapter we are in (ordinary, appendix, or unnumbered).
% Define them by default for a numbered chapter.
\let\section = \numberedsec
\let\subsection = \numberedsubsec
\let\subsubsection = \numberedsubsubsec

% Define @majorheading, @heading and @subheading

\def\majorheading{%
  {\advance\chapheadingskip by 10pt \chapbreak }%
  \parsearg\chapheadingzzz
}

\def\chapheading{\chapbreak \parsearg\chapheadingzzz}
\def\chapheadingzzz#1{%
  \vbox{\chapfonts \raggedtitlesettings #1\par}%
  \nobreak\bigskip \nobreak
  \suppressfirstparagraphindent
}

% @heading, @subheading, @subsubheading.
\parseargdef\heading{\sectionheading{#1}{sec}{Yomitfromtoc}}{ }
\suppressfirstparagraphindent}
\parseargdef\subheading{\sectionheading{#1}{subsec}{Yomitfromtoc}}{ }
\suppressfirstparagraphindent}
\parseargdef\subsubheading{\sectionheading{#1}{subsubsec}{Yomitfromtoc}}{ }
\suppressfirstparagraphindent}

% These macros generate a chapter, section, etc. heading only
% (including whitespace, linebreaking, etc. around it),
% given all the information in convenient, parsed form.

% Args are the skip and penalty (usually negative)
\def\dobreak#1#2{\par\ifdim\lastskip<#1\removelastskip\penalty#2\vskip#1\fi}

% Parameter controlling skip before chapter headings (if needed)
\newskip\chapheadingskip

% Define plain chapter starts, and page on/off switching for it.
\def\chapbreak{\dobreak \chapheadingskip {-4000}}
\def\chappager{\par\vfill\supereject}
% Because \domark is called before \chapoddpge, the filler page will
% get the headings for the next chapter, which is wrong. But we don't
% care -- we just disable all headings on the filler page.

```

```

\def\chapoddpag{%
\chappager
\ifodd\pageno \else
\beginingroup
\headingsoff
\null
\chappager
\endgroup
\fi
}

\def\setchapternewpage #1 {\csname CHAPPAG#1\endcsname}

\def\CHAPPAGoff{%
\global\let\contentsalignmacro = \chappager
\global\let\pchapsemacro=\chapbreak
\global\let\pagealignmacro=\chappager}

\def\CHAPPAGon{%
\global\let\contentsalignmacro = \chappager
\global\let\pchapsemacro=\chappager
\global\let\pagealignmacro=\chappager
\global\def\HEADINGSon{\HEADINGSsingle}}

\def\CHAPPAGodd{%
\global\let\contentsalignmacro = \chapoddpag
\global\let\pchapsemacro=\chapoddpag
\global\let\pagealignmacro=\chapoddpag
\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{ }}%

```

```

%
\def\temptype{#2}%
\ifx\temptype\Ynothingkeyword
  \gdef\lastchapterdefs{\gdef\thischaptername{#1}\gdef\thischapternum{ }%
    \gdef\thischapter{\thischaptername} }%
\else\ifx\temptype\Yomitfromtockeyword
  \gdef\lastchapterdefs{\gdef\thischaptername{#1}\gdef\thischapternum{ }%
    \gdef\thischapter{ } }%
\else\ifx\temptype\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.
\pchapsepmacro
%
% Now the second mark, after the heading break. No break points
% between here and the heading.
\let\prevchapterdefs=\lastchapterdefs
\let\prevsectiondefs=\lastsectiondefs
\domark
%
{%
  \chapfonts \rmisbold
%

```

```

% Have to define \lastsection before calling \donoderef, because the
% xref code eventually uses it. On the other hand, it has to be called
% after \pchapsepmacro, 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\Yomitfromtockkeyword
  \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
}

% @centerchap -- centered and unnumbered.
\let\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{%
\chapoddpag
\vbox{\chapfonts \raggedtitlesettings #1\par}%
\nobreak\bigskip\nobreak
}
\def\chfopen #1#2{\chapoddpag {\chapfonts
\vbox to 3in{\vfil \hbox to\hsize{\hfil #2} \hbox to\hsize{\hfil #1} \vfil}}}%
\par\penalty 5000 %
}
\def\centerchfopen #1{%
\chapoddpag
\vbox{\chapfonts \raggedtitlesettings \hfil #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\seheadingskip
\def\secheadingbreak{\dobreak \seheadingskip{-1000}}

% Subsection titles.
\newskip\subseheadingskip
\def\subsecheadingbreak{\dobreak \subseheadingskip{-500}}

% Subsubsection titles.
\def\subsubseheadingskip{\subseheadingskip}
\def\subsubsecheadingbreak{\subsecheadingbreak}

% Print any size, any type, section title.
%
% #1 is the text, #2 is the section level (sec/subsec/subsubsec), #3 is
% the section type for xrefs (Ynumbered, Ynothing, Yappendix), #4 is the
% section number.
%

```

```

\def\seckeyword{sec}
%
\def\sectionheading#1#2#3#4{%
{%
\checkenv{ }% should not be in an environment.
%
% Switch to the right set of fonts.
\csname #2fonts\endcsname \rmisbold
%
\def\sectionlevel{#2}%
\def\temptype{#3}%
%
% Insert first mark before the heading break (see notes for \domark).
\let\prevsectiondefs=\lastsectiondefs
\ifx\temptype\Ynothingkeyword
\ifx\sectionlevel\seckeyword
\gdef\lastsectiondefs{\gdef\thissectionname{#1}\gdef\thissectionnum{ }%
\gdef\thissection{\thissectionname} }%
\fi
}else\ifx\temptype\Yomitfromtockeyword
% Don't redefine \thissection.
}else\ifx\temptype\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 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\temptype\Ynothingkeyword
  \setbox0 = \hbox{ }%
  \def\toctype{unn}%
  \gdef\lastsection{#1}%
\else\ifx\temptype\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\temptype\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{\toctype\sectionlevel}{#1}{#4}%
%
% Write the node reference (= pdf destination for pdftex).
% 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 \ptextraggedright
\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 \cscname #2headingskip\endcscname
%
% 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
% (\startdefun, \cartouche, \center, 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 \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\writetotype{#1}%
\ifx\writetotype\omitkeyword \else
\iftocfileopened\else
\immediate\openout\tocfile = \jobname.toc
\global\tocfileopenedtrue
\fi
%
\iflinks
{\atdummies
\edef\temp{%
\write\tocfile{ @#1entry{#2}{#3}{\lastnode}{\noexpand\folio}}}%
\temp
}%
\fi
\fi
%
% Tell \shipout to create a pdf destination on each page, if we're
% writing pdf. These are used in the table of contents. We can't
% just write one on every page because the title pages are numbered
% 1 and 2 (the page numbers aren't printed), and so are the first
% two pages of the document. Thus, we'd have two destinations named
% `1', and two named `2'.
\ifpdf \global\pdfmakepagedesttrue \fi
}

```

```

% 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.
%

```

```

\def\activecatcodes{%
\catcode`\\"=\active
\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
\newcount\lastnegativepageno \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
  % \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\hspace 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\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{ }
\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
\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\shortchaplabe#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\numerabox{\setbox0=\hbox{8}\hbox to \wd0{\hfil}}
\def\partentry#1#2#3#4{\dochapentry{\numerabox\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}{\numerabox}{}}%
}

% 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{\shortchaplabe#2\labelspace #1}{\doshortpageno\bgroup#4\egroup}%
}

% Appendices, in the main contents.

```

```

% Need the word Appendix, and a fixed-size box.
%
\def\appendibox#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{\appendibox{#2}\labelpace#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\labelpace#1}{#4}}
\let\appsecentry=\numsecentry
\def\unnsecentry#1#2#3#4{\dosecentry{#1}{#4}}

% Subsections.
\def\numsubsecentry#1#2#3#4{\dosubsecentry{#2\labelpace#1}{#4}}
\let\appsubsecentry=\numsubsecentry
\def\unnsubsecentry#1#2#3#4{\dosubsecentry{#1}{#4}}

% And subsubsections.
\def\numsubsubsecentry#1#2#3#4{\dosubsubsecentry{#2\labelpace#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\dochapentry#1#2{%
\penalty-300 \vskip1\baselineskip plus.33\baselineskip minus.25\baselineskip
\begingroup
\chapentryfonts
\tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup
\nobreak\vskip .25\baselineskip plus.1\baselineskip
}

\def\dosecentry#1#2{\begingroup
\secentryfonts \leftskip=\tocindent

```

```

\tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}

\def\dosubsecentry#1#2{\begingroup
\subsecentryfonts \leftskip=2\tocindent
\tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}

\def\dosubsubsecentry#1#2{\begingroup
\subsubsecentryfonts \leftskip=3\tocindent
\tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}

% We use the same \entry macro as for the index entries.
\let\tocentry = \entry

% Space between chapter (or whatever) number and the title.
\def\labelSPACE{\hskip1em \relax}

\def\dopageno#1{\rm #1}
\def\doshortpageno#1{\rm #1}

\def\chapentryfonts{\secfonts \rm}
\def\secentryfonts{\textfonts}
\def\subsecentryfonts{\textfonts}
\def\subsubsecentryfonts{\textfonts}

\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 \~= \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\{=\ptexlbrace
\let\+=\tabalign
\let\}=\ptexrbrace
\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
    \removealllastskip
    % 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.
\let\nonarrowing=\relax

% @cartouche ... @end cartouche: draw rectangle w/rounded corners around
% environment contents.
\font\circle=\lrcircle10
\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} }
%
\newskip\lskip\newskip\rskip

\envdef\cartouche{ %

```



```

\ifhmode\par\fi % can't be in the midst of a paragraph.
\startsavinginserts
\lskip=\leftskip \rskip=\rightskip
\leftskip=0pt\rightskip=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=\baselineskip \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
%
\ vbox\bgroup
  \ baselineskip=0pt\parskip=0pt\lineskip=0pt
  \ carttop
  \ hbox\bgroup
    \ hskip\lskip
    \ vrule\kern3pt
    \ vbox\bgroup
      \ kern3pt
      \ hsize=\cartinner
      \ baselineskip=\normbskip
      \ lineskip=\normlskip
      \ parskip=\normpskip
      \ vskip -\parskip
      \ comment % For explanation, see the end of def\group.
    }
  }
\ def\Ecartouche{ %
  \ ifhmode\par\fi
  \ kern3pt
  \ egroup
  \ kern3pt\vrule
  \ hskip\rskip
  \ egroup
  \ cartbot
  \ egroup
  \ checkinserts
}

```

% 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
\ifx\nonarrowing\relax
\advance \leftskip by \lispnarrowing
\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 %
\expandafter\nonfillindentgobble%
\else%
\leavevmode\nonfillindentbox%
\fi%
}%
\endgroup
\def\nonfillindentgobble#1{\nonfillindent}
\def\nonfillindentbox{\hbox to \nonfillparindent{\hss}}

% If you want all examples etc. small: @set dispensize small.
% If you want even small examples the full size: @set dispensize nosmall.
% This affects the following displayed environments:
% @example, @display, @format, @lisp
%
```

```

\def\smallword{small}
\def\nosmallword{nosmall}
\let\SETdispensize\relax
\def\setnormaldispenv{%
\ifx\SETdispensize\smallword
% end paragraph for sake of leading, in case document has no blank
% line. This is redundant with what happens in \aboveenvbreak, but
% we need to do it before changing the fonts, and it's inconvenient
% to change the fonts afterward.
\ifnum \lastpenalty=10000 \else \endgraf \fi
\smallexamplefonts \rm
\fi
}
\def\setsmalldispenv{%
\ifx\SETdispensize\nosmallword
\else
\ifnum \lastpenalty=10000 \else \endgraf \fi
\smallexamplefonts \rm
\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{%
\makedispenvdef{#1}{#3}%
\makedispenvdef{#2}{#3}%
}
%
% @lisp: indented, narrowed, typewriter font;
% @example: same as @lisp.
%
% @smallexample and @smalllisp: use smaller fonts.
% Originally contributed by Pavel@xerox.
%
\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
}

% @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
}
\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.
\ifx\nonarrowing\relax
  \advance\rightskip by \lispnarrowing
\fi
\parsearg\quotationlabel
}

% 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}% because \aboveenvbreak inserts \parskip
  \parindent=0pt
%
% @cartouche defines \nonarrowing to inhibit narrowing at next level down.
\ifx\nonarrowing\relax
  \advance\leftskip by \lispnarrowing
  \exdentamount = \lispnarrowing
\else
  \let\nonarrowing = \relax
\fi
}

% Keep a nonzero parskip for the environment, since we're doing normal filling.
%
\def\Eindentedblock{%
  \par
  {\parskip=0pt \afterenvbreak}%
}
\def\Esmallindentedblock{\Eindentedblock}

% LaTeX-like @verbatim...@end verbatim and @verb{<char>...<char>}
% If we want to allow any <char> as delimiter,
% we need the curly braces so that makeinfo sees the @verb command, eg:
% `@verbx...x' would look like the '@verbx' command. --janneke@gnu.org
%
% [Knuth]: Donald Ervin Knuth, 1996. The TeXbook.
%
% [Knuth] p.344; only we need to do the other characters Texinfo sets
% active too. Otherwise, they get lost as the first character on a
% verbatim line.
\def\dospecials{%
  \do\ \do\\\do\{\do\}\do\$\do\&%
  \do#\do^\do\^^K\do_\do\^^A\do|\do|~%
  \do<\do>\do\|\do@\do+\do" %
% Don't do the quotes -- if we do, @set txicodequoteundirected and
% @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
\begingroup
\catcode\^^I=\active
\gdef\tabeightspaces{\catcode\^^I=\active\def^^I{\ \ \ \ \ \ \ \ \ }}
\endgroup
%
\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\bgroup}
%
\begingroup
\catcode\^^I=\active
\gdef\tabexpand{%
\catcode\^^I=\active
\def^^I{\leavevmode\egroup
\dimen\verbbox=\wd\verbbox % the width so far, or since the previous tab
\divide\dimen\verbbox by\tabw
\multiply\dimen\verbbox by\tabw % compute previous multiple of \tabw
\advance\dimen\verbbox by\tabw % advance to next multiple of \tabw
\wd\verbbox=\dimen\verbbox \box\verbbox \starttabbox
}%
}
\endgroup

```

```

% start the verbatim environment.
\def\setupverbatim{%
\let\nonarrowing = t%
\nonfillstart
\tt % easiest (and conventionally used) font for verbatim
% The \leavevmode here is for blank lines. Otherwise, we would
% never \starttabbox and the \egroup would end verbatim mode.
\def\par{\leavevmode\egroup\box\verbbox\endgraf}%
\TABEXPAND
\setupmarkupstyle{verbatim}%
% Respect line breaks,
% print special symbols as themselves, and
% make each space count.
% Must do in this order:
\obeylines \uncatcodespecials \sepspaces
\everypar{\starttabbox}%
}

% 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}
\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 '\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\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\dodefuns#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 \dodefuns
% 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}%
}%
\def#2{\dodefuns#1}%

```

```

\def#3%
}

\newif\ifdoingtypefn    % doing typed function?
\newif\ifrettypeownline % 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 @deftypefn, @deftypefun,
% @deftypeop, and @deftypemethod.
%
\parseargdef\deftypefnnewline{%
\def\temp{#1}%
\ifx\temp\onword
\expandafter\let\csname SETtxideftypefnnl\endcsname
= \empty
\else\ifx\temp\offword
\expandafter\let\csname SETtxideftypefnnl\endcsname
= \relax
\else
\errhelp = \EMsimple
\errmessage{Unknown @txideftypefnnl 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 {\deftypepfgeneral{\putwordon\ \code{#2}}{#1\ \code{#2}} }

% \deftypepfgeneral {subind}category type name args
%
\def\deftypepfgeneral#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}{\deftypepvcvgeneral{}}

% @deftypecv category class type var args
\makedefun{deftypecv}#1 {\deftypepvcvof{#1\ \putwordof}}

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

% \deftypepvcvgeneral {subind}category type var args
%
\def\deftypepvcvgeneral#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 {\defcvof{#1\ \putwordof}}

% \defcvof {category of}class var args
\def\defcvof#1#2 {\deftypepvcvof{#1}#2 {} }

% Types:

% @deftp category name args
\makedefun{deftp}#1 #2 #3\endheader{%

```

```

\doind{tp}{\code{#2}}%
\defname{#1}{\code{#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}{\defopecvof\putwordMethodon}
\makedefun{deftypemethod}{\deftypeopecvof\putwordMethodon}
\makedefun{defivar}{\defvcvof\putwordInstanceVariableof}
\makedefun{deftypeivar}{\deftypevcvof\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:
\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
  \advance\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 :).
  \df \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:
    \hfil\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
%
\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 '-' 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 @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%
\sl\hyphenchar\font=45
}

% 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
\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&=\ampprm}
}

\newcount\parencount

% If we encounter &foo, then turn on ()-hacking afterwards
\newif\ifampseen
\def\ampprm#1 {\ampseenttrue{\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
}
\def\infirstlevel#1{%
\ifampseen
\ifnum\parencount=1
#1%
\fi
\fi
}
\def\bfafterword#1 {#1 \bf}

\def\opnr{%
\global\advance\parencount by 1
{\parenfont}%
\infirstlevel \bfafterword
}
\def\clnr{%
{\parenfont}}%
\infirstlevel \sl
\global\advance\parencount by -1
}

\newcount\brackcount
\def\lbrb{%
\global\advance\brackcount by 1
{\bf[}%

```

```

}
\def\rbrb{%
  {\bf]}%
\global\advance\brackcount by -1
}

\def\checkparencounts{%
  \ifnum\parencount=0 \else \badparencount \fi
  \ifnum\brackcount=0 \else \badbrackcount \fi
}
% these should not use \errmessage; the glibc manual, at least, actually
% has such constructs (when documenting function pointers).
\def\badparencount{%
  \message{Warning: unbalanced parentheses in @def...}%
  \global\parencount=0
}
\def\badbrackcount{%
  \message{Warning: unbalanced square brackets in @def...}%
  \global\brackcount=0
}

\message{macros,}
% @macro.

% To do this right we need a feature of e-TeX, \scantokens,
% which we arrange to emulate with a temporary file in ordinary TeX.
\ifx\TeXversion\thisisundefined
  \newwrite\macscribble
  \def\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\Xeatspaces\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\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 \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{%
\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{#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 #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 \
% 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
\ifx\declaredencoding\ascii \else \setnonasciicharscatcodenonglobal\other \fi
}

\def\scanargctxt{% used for copying and captions, not macros.
\scanctxt
\catcode`\|=\other
\catcode`\^^M=\other
}

```

```

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

\def\macroargtxt{% 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\ => \cname macarg.foo\endcname => #N
% where N is the macro parameter number.
% We define \cname macarg.\endcname to be \realbackslash, so
% \\ in macro replacement text gets you a backslash.
%
{\catcode`@=0 @catcode`@=\=@active
@gdef@usebodybackslash{ @let\=@mbodybackslash}
@gdef@mbodybackslash#1{\ @cname macarg.#1@endcname}
}
\expandafter\def\cname macarg.\endcname{\realbackslash}

\def\margbackslash#1{\char`#1 }

\def\macro{\recursivefalse\parsearg\macroxxx}
\def\rmacro{\recursive true\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\parseargdef \argl;%
  \if\paramno>256\relax
    \ifx\eTeXversion\thisisundefined
      \errhelp = \EMsimple
      \errmessage{ You need eTeX to compile a file with macros with more than 256 arguments }
    \fi
  \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 \macrobodytxt
\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\unmacrodo
  \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\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\arg1{#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 \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\xeatspaces\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
  \parsemanyargdef@@#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\next}

\def\parsemanyargdef@@#1,{%
\if#1;\let\next=\relax
\else
  \let\next=\parsemanyargdef@@
  \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 \parsermacbody 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 \@ \texti\atcatcode
\long\def\parsermacbody#1@end macro%
{\xdef\temp{\eatcr{#1}}\endgroup\defmacro}%
\long\def\parsermacbody#1@end rmacro%
{\xdef\temp{\eatcr{#1}}\endgroup\defmacro}%
\catcode \@=11\relax

\let\endargs@\relax

```



```

\let\nil@\relax
\def\nilm@{\nil@}%
\long\def\nillm@{\nil@}%

% 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}%
\beginngroup
\macroargtxt
\def\argvaluelist{#3,\nil@}%
\def\@tempa{#3}%
\ifx\@tempa\empty
\setemptyargvalues@
\else
\getargvals@@
\fi
}

%
\def\getargvals@@{%
\ifx\paramlist\nilm@
% Some sanity check needed here that \argvaluelist is also empty.
\ifx\argvaluelist\nillm@
\else
\errhelp = \EMsimple
\errmessage{Too many arguments in macro `\'macroname'!}%
\fi
\let\next\macargexpandinbody@
\else
\ifx\argvaluelist\nillm@
% No more arguments values passed to macro. Set remaining named-arg
% macros to empty.
\let\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@
\let\next\getargvals@@
\fi
\fi
\next
}

```

```

\def\push@#1#2{%
\expandafter\expandafter\expandafter\def
\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@{%
% 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.\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,{%
\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\@tempa\csname macarg.#1\endcsname
  \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
\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@{%
\ifx\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
  \ifrecursive
    \ifcase\paramno
      % 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,}%
\expandafter\expandafter
\expandafter\xdef
\expandafter\expandafter
  \csname\the\macname xxx\endcsname
  \paramlist{\egroup\noexpand\scanmacro{\temp}}%
\else % 10 or more
\expandafter\xdef\csname\the\macname\endcsname{%
  \noexpand\getargvals@{\the\macname}{\arg1}%
}%
\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
% 0
\expandafter\xdef\csname\the\macname\endcsname{%
  \noexpand\norecurse{\the\macname}%
  \noexpand\scanmacro{\temp}\egroup}%
\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\norecurse{\the\macname}%
  \noexpand\scanmacro{\temp}\egroup}%
\else % at most 9
\ifnum\paramno<10\relax
\expandafter\xdef\csname\the\macname\endcsname{%
  \bgroup\noexpand\macroargctxt
  \expandafter\noexpand\csname\the\macname xx\endcsname}%
\expandafter\xdef\csname\the\macname xx\endcsname##1{%
  \expandafter\noexpand\csname\the\macname xxx\endcsname ##1,}%
\expandafter\expandafter
\expandafter\xdef
\expandafter\expandafter
\csname\the\macname xxx\endcsname
\paramlist{%
  \egroup
  \noexpand\norecurse{\the\macname}%
  \noexpand\scanmacro{\temp}\egroup}%

```

```

\else % 10 or more:
\expandafter\xdef\csname\the\macname\endcsname{%
  \noexpand\getargvals@{\the\macname}{\arg1}%
}%
\global\expandafter\let\csname mac.\the\macname .body\endcsname\temp
\global\expandafter\let\csname mac.\the\macname .recurse\endcsname\norecurse
\fi
\fi
\fi}

\catcode \@ \textatcatcode\relax

\def\norecurse#1{\bgroup\cslet{#1}{macsave.#1}}

% \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 \parsebrace or \parsearg).
%
\def\braceorline#1{\let\macnamexxx=#1\futurelet\nchar\braceorlinexxx}
\def\braceorlinexxx{%
\ifx\nchar\bgroup\else
  \expandafter\parsearg
\fi \macnamexxx}

% @alias.
% We need some trickery to remove the optional spaces around the equal
% sign. Make them active and then expand them all to nothing.
%
\def\alias{\parseargusing\obeyspaces\aliasxxx}
\def\aliasxxx #1{\aliasyyy#1\relax}
\def\aliasyyy #1=#2\relax{%
{%
  \expandafter\let\obeyedspace=\empty
  \addtomacrolist{#1}%
  \xdef\next{\global\let\makecsname{#1}=\makecsname{#2}}%
}%
\next
}

\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.

```

```

% @inforef is relatively simple.
\def\inforef #1{\inforefzzz #1,,,**}
\def\inforefzzz #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-refs
\def\donode#1 ,#2\finishnodeparse{\dodonode #1,\finishnodeparse}
\def\dodonode#1,#2\finishnodeparse{\gdef\lastnode{#1}}

\let\nwnode=\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 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
}

% @xrefautosectiontitle 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}%
\ifx\temp\onword
\expandafter\let\csname SETxref-automatic-section-title\endcsname
= \empty
\else\ifx\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}%
\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\cname 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.
\def\printedrefname{\ignorespaces #1}%
\fi%
\fi
\fi
\fi
%
% Make link in pdf output.
\ifpdf

```

```

{\indexnofonts
\turnoffactive
\makevalueexpandable
% This expands tokens, so do it after making catcode changes, so _
% etc. don't get their TeX definitions. This ignores all spaces in
% #4, including (wrongly) those in the middle of the filename.
\getfilename{#4}%
%
% This (wrongly) does not take account of leading or trailing
% spaces in #1, which should be ignored.
\edef\pdfxrefdest{#1}%
\ifx\pdfxrefdest\empty
\def\pdfxrefdest{Top}% no empty targets
\else
\txiescapepdf\pdfxrefdest % escape PDF special chars
\fi
%
\leavevmode
\startlink attr{/Border [0 0 0]}%
\ifnum\filenamelength>0
goto file{\the\filename.pdf} name{\pdfxrefdest}%
\else
goto name{\pdfmkpgn{\pdfxrefdest}}%
\fi
}%
\setcolor{\linkcolor}%
\fi
%
% Float references are printed completely differently: "Figure 1.2"
% instead of "[somenode], p.3". We distinguish them by the
% LABEL-title being set to a magic string.
{%
% Have to otherify everything special to allow the \cename to
% include an _ in the xref name, etc.
\indexnofonts
\turnoffactive
\expandafter\global\expandafter\let\expandafter\Xthisreftitle
\cename XR#1-title\endcsname
}%
\iffloat\Xthisreftitle
% If the user specified the print name (third arg) to the ref,
% print it instead of our usual "Figure 1.2".
\ifdim\wd\printedrefnamebox = Opt
\refx{#1-snt}{}%
\else
\printedrefname
\fi
%

```

```

% If the user also gave the printed manual name (fifth arg), append
% "in MANUALNAME".
\ifdim \wd\printedmanualbox > 0pt
  \space \putwordin{} \cite{\printedmanual}%
\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.
%
\ifdim \wd\printedmanualbox > 0pt
  % Cross-manual reference with a printed manual name.
  %
  \crossmanualxref{\cite{\printedmanual\unskip}}%
%
\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}}%
%
\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}}}%
  \ifdim \wd2 > 0pt \refx{#1-snt}\space\fi
}%
% output the `[mynode]' via the macro below so it can be overridden.
\refprintnodename\printedrefname
%
% But we always want a comma and a space:
,\space
%
% output the `page 3'.

```

```

\turnoffactive \putwordpage\tie\refx{#1-pg}{}%
\fi\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
#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
}
\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
}

% 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
}%
\ifx\thisrefX\relax
  % If not defined, say something at least.
  \angleleft un\de\fin\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
\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\cscname XR\safexrefname\endcsname{#2}% remember this xref
%
% Was that xref control sequence that we just defined for a float?
\expandafter\iffloat\cscname XR\safexrefname\endcsname
  % it was a float, and we have the (safe) float type in \iffloattype.
  \expandafter\let\expandafter\floatlist
  \cscname 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\cscname 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
% vital for proper filling; pages come out unaligned when you do a
% pagealignmacro call if that space before the closing brace is
% removed. (Generally, numeric constants should always be followed by a
% 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.
\gdef\footnote{%
\let\indent=\ptexindent
\let\noindent=\ptexnoindent
\global\advance\footnoteno by \@ne
\edef\thisfootno{$^\the\footnoteno}$}%
%
% 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, 16nov96.
%
\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 extend 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\footins{foo} and

```

```

% \insert\footins\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{%
\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

% @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
% Do not bother showing banner with epsf.tex v2.7k (available in
% doc/epsf.tex and on ctan).
\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}%
\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
\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=#2relax\fi
\setbox0=\hbox{\ignorespaces#3}\ifdim\wd0>0pt\epsfysize=#3relax\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
\xdef\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
    \ifx\floattype\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
    \ifx\floatident\empty \else

```

```

\appendtomacro\captionline{: }% had ident, so need a colon between
  \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
  %
  % Space below caption.
  \vskip\parskip
\fi
%
% If have an xref label, write the list of floats info. Do this
% after the caption, to avoid chance of it being a breakpoint.
\ifx\floatlabel\empty \else
  % Write the text that goes in the lof to the aux file as
  % \floatlabel-lof. Besides \floatident, we include the short
  % caption if specified, else the full caption if specified, else nothing.
  {%
  \atdummies
  %
  % since we read the caption text in the macro world, where ^^M
  % is turned into a normal character, we have to scan it back, so
  % we don't write the literal three characters "^^M" into the aux file.
\scanexp{%
  \xdef\noexpand\gtemp{%
  \ifx\thisshortcaption\empty
    \thiscaption
  \else
    \thisshortcaption
  \fi
  }%
}%
  \immediate\write\auxfile{@xrdef{\floatlabel-lof}{\floatident
\ifx\gtemp\empty \else : \gtemp \fi } }%
  }%
\fi
\egroup % 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.
\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
\xdef\safefloattype{\floattype}%
}%
%
% \xrdef saves the floats as a \do-list in \floatlistSAFEFLOATTYPE.
\expandafter\ifx\cename floatlist\safefloattype\endcsname \relax
\ifhavexrefs
% if the user said @listoffloats foo but never @float foo.
\message{\linenumber No `safefloattype' floats to list.}%
\fi
\else
\begingroup
\leftskip=\tocindent % indent these entries like a toc
\let\do=\listoffloatsdo
\cename floatlist\safefloattype\endcsname
\endgroup
\fi
}

% 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{\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{\cscname XR#1-lof\endcsname}%
%
% use the same \entry macro we use to generate the TOC and index.
\edef\writeentry{\noexpand\entry{\the\toksA}{\cscname 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
\documentlanguage\trywithoutunderscore{#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\documentlanguage\trywithoutunderscore#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
  \asciichardefs
%
\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}}
\gdef^^a5{\missingcharmsg{YEN SIGN}}
\gdef^^a6{\missingcharmsg{BROKEN BAR}}
\gdef^^a7{\S}
\gdef^^a8{\'{} }
\gdef^^a9{\copyright}
\gdef^^aa{\ordf}
\gdef^^ab{\guillemetleft}
\gdef^^ac{\$ \lnot$}
\gdef^^ad{\-}
\gdef^^ae{\registeredsymbol}
\gdef^^af{\= {} }
%
\gdef^^b0{\textdegree}
\gdef^^b1{\$ \pm$}
\gdef^^b2{\$ ^2$}
\gdef^^b3{\$ ^3$}
\gdef^^b4{\'{} }
\gdef^^b5{\$ \mu$}
\gdef^^b6{\P}
%
\gdef^^b7{\$ ^.$}
\gdef^^b8{\cedilla\ }
\gdef^^b9{\$ ^1$}
\gdef^^ba{\ordm}
%
\gdef^^bb{\guillemetright}
\gdef^^bc{\$ 1\over4$}
\gdef^^bd{\$ 1\over2$}
\gdef^^be{\$ 3\over4$}

```

```

\gdef^^bf{\questiondown}
%
\gdef^^c0{\`A}
\gdef^^c1{\^A}
\gdef^^c2{\^A}
\gdef^^c3{\~A}
\gdef^^c4{"A}
\gdef^^c5{\ringaccent A}
\gdef^^c6{\AE}
\gdef^^c7{\cedilla C}
\gdef^^c8{\`E}
\gdef^^c9{\^E}
\gdef^^ca{\^E}
\gdef^^cb{"E}
\gdef^^cc{\`I}
\gdef^^cd{\^I}
\gdef^^ce{\^I}
\gdef^^cf{"I}
%
\gdef^^d0{\DH}
\gdef^^d1{\~N}
\gdef^^d2{\`O}
\gdef^^d3{\^O}
\gdef^^d4{\^O}
\gdef^^d5{\~O}
\gdef^^d6{"O}
\gdef^^d7{\$times$}
\gdef^^d8{\O}
\gdef^^d9{\`U}
\gdef^^da{\^U}
\gdef^^db{\^U}
\gdef^^dc{"U}
\gdef^^dd{\`Y}
\gdef^^de{\TH}
\gdef^^df{\ss}
%
\gdef^^e0{\`a}
\gdef^^e1{\^a}
\gdef^^e2{\^a}
\gdef^^e3{\~a}
\gdef^^e4{"a}
\gdef^^e5{\ringaccent a}
\gdef^^e6{\ae}
\gdef^^e7{\cedilla c}
\gdef^^e8{\`e}
\gdef^^e9{\^e}
\gdef^^ea{\^e}
\gdef^^eb{"e}

```

```

\gdef^ec{\`{\dotless i}}
\gdef^ed{\'\{\dotless i}}
\gdef^ee{\^{\dotless i}}
\gdef^ef{"{\dotless i}}
%
\gdef^f0{\dh}
\gdef^f1{\~n}
\gdef^f2{\`o}
\gdef^f3{\'o}
\gdef^f4{\^o}
\gdef^f5{\~o}
\gdef^f6{"o}
\gdef^f7{\$div\$}
\gdef^f8{\o}
\gdef^f9{\u}
\gdef^fa{\u}
\gdef^fb{\^u}
\gdef^fc{"u}
\gdef^fd{\y}
\gdef^fe{\th}
\gdef^ff{"y}
}

% Latin9 (ISO-8859-15) encoding character definitions.
\def\latninechardefs{%
% Encoding is almost identical to Latin1.
\latonechardefs
%
\gdef^a4{\euro}
\gdef^a6{\v S}
\gdef^a8{\v s}
\gdef^b4{\v Z}
\gdef^b8{\v z}
\gdef^bc{\OE}
\gdef^bd{\oe}
\gdef^be{"Y}
}

% Latin2 (ISO-8859-2) character definitions.
\def\lattwochardefs{%
\gdef^a0{\tie}
\gdef^a1{\ogonek{A}}
\gdef^a2{\u{}}
\gdef^a3{\L}
\gdef^a4{\missingcharmsg{CURRENCY SIGN}}
\gdef^a5{\v L}
\gdef^a6{\S}
\gdef^a7{\S}

```



```

\gdef^a8{\''{}}
\gdef^a9{\v S}
\gdef^aa{\cedilla S}
\gdef^ab{\v T}
\gdef^ac{\Z}
\gdef^ad{\-}
\gdef^ae{\v Z}
\gdef^af{\dotaccent Z}
%
\gdef^b0{\textdegree}
\gdef^b1{\ogonek{a}}
\gdef^b2{\ogonek{ }}
\gdef^b3{\l}
\gdef^b4{\''{}}
\gdef^b5{\v l}
\gdef^b6{\'s}
\gdef^b7{\v{ }}
\gdef^b8{\cedilla\ }
\gdef^b9{\v s}
\gdef^ba{\cedilla s}
\gdef^bb{\v t}
\gdef^bc{\'z}
\gdef^bd{\H{ }}
\gdef^be{\v z}
\gdef^bf{\dotaccent z}
%
\gdef^c0{\R}
\gdef^c1{\A}
\gdef^c2{\^A}
\gdef^c3{\u A}
\gdef^c4{\"A}
\gdef^c5{\L}
\gdef^c6{\C}
\gdef^c7{\cedilla C}
\gdef^c8{\v C}
\gdef^c9{\E}
\gdef^ca{\ogonek{E}}
\gdef^cb{\"E}
\gdef^cc{\v E}
\gdef^cd{\I}
\gdef^ce{\^I}
\gdef^cf{\v D}
%
\gdef^d0{\DH}
\gdef^d1{\N}
\gdef^d2{\v N}
\gdef^d3{\O}
\gdef^d4{\^O}

```

```

\gdef^^d5{\H O}
\gdef^^d6{"O}
\gdef^^d7{\times$}
\gdef^^d8{\v R}
\gdef^^d9{\ringaccent U}
\gdef^^da{\U}
\gdef^^db{\H U}
\gdef^^dc{"U}
\gdef^^dd{\Y}
\gdef^^de{\cedilla T}
\gdef^^df{\ss}
%
\gdef^^e0{\r}
\gdef^^e1{\a}
\gdef^^e2{\^a}
\gdef^^e3{\u a}
\gdef^^e4{"a}
\gdef^^e5{\l}
\gdef^^e6{\c}
\gdef^^e7{\cedilla c}
\gdef^^e8{\v c}
\gdef^^e9{\e}
\gdef^^ea{\ogonek{e}}
\gdef^^eb{"e}
\gdef^^ec{\v e}
\gdef^^ed{\{\dotless{i}}\}
\gdef^^ee{\^{\dotless{i}}\}
\gdef^^ef{\v d}
%
\gdef^^f0{\dh}
\gdef^^f1{\n}
\gdef^^f2{\v n}
\gdef^^f3{\o}
\gdef^^f4{\^o}
\gdef^^f5{\H o}
\gdef^^f6{"o}
\gdef^^f7{\div$}
\gdef^^f8{\v r}
\gdef^^f9{\ringaccent u}
\gdef^^fa{\u}
\gdef^^fb{\H u}
\gdef^^fc{"u}
\gdef^^fd{\y}
\gdef^^fe{\cedilla t}
\gdef^^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{%
  \ifx #1\relax
    \message{\linenumber Unicode char \string #1 not defined for Texinfo}%
  \else
    \expandafter #1%
  \fi
}

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

\def\UTFviiiLoop{%
  \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{%

```

```

\def~{\noexpand\UTFviiiThreeOctets\string~}
\UTFviiiLoop

\countUTFx = "F0
\countUTFy = "F4
\def\UTFviiiTmp{%
  \def~{\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
  \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\parseUTFviiiB#1#2#3#4{%
\advance\countUTFz by "#10\relax
\uccode `#3\countUTFz
\uppercase{\gdef\UTFviiiTmp{#2#3#4}}
\endgroup

\def\utfeightchardefs{%
\DeclareUnicodeCharacter{00A0}{\tie}
\DeclareUnicodeCharacter{00A1}{\exclamdown}
\DeclareUnicodeCharacter{00A3}{\pounds}
\DeclareUnicodeCharacter{00A8}{\`{ }}
\DeclareUnicodeCharacter{00A9}{\copyright}
\DeclareUnicodeCharacter{00AA}{\ordf}
\DeclareUnicodeCharacter{00AB}{\guillemetleft}
\DeclareUnicodeCharacter{00AD}{\~}
\DeclareUnicodeCharacter{00AE}{\registeredsymbol}
\DeclareUnicodeCharacter{00AF}{\={ }}

\DeclareUnicodeCharacter{00B0}{\ringaccent{ }}
\DeclareUnicodeCharacter{00B4}{\`{ }}
\DeclareUnicodeCharacter{00B8}{\cedilla{ }}
\DeclareUnicodeCharacter{00BA}{\ordm}
\DeclareUnicodeCharacter{00BB}{\guillemetright}
\DeclareUnicodeCharacter{00BF}{\questiondown}

\DeclareUnicodeCharacter{00C0}{\A}
\DeclareUnicodeCharacter{00C1}{\A}
\DeclareUnicodeCharacter{00C2}{\^A}
\DeclareUnicodeCharacter{00C3}{\~A}
\DeclareUnicodeCharacter{00C4}{\A}
\DeclareUnicodeCharacter{00C5}{\AA}
\DeclareUnicodeCharacter{00C6}{\AE}

```

```

\DeclareUnicodeCharacter{00C7}{\cedilla{C}}
\DeclareUnicodeCharacter{00C8}{\E}
\DeclareUnicodeCharacter{00C9}{\E}
\DeclareUnicodeCharacter{00CA}{\^E}
\DeclareUnicodeCharacter{00CB}{\E}
\DeclareUnicodeCharacter{00CC}{\I}
\DeclareUnicodeCharacter{00CD}{\I}
\DeclareUnicodeCharacter{00CE}{\I}
\DeclareUnicodeCharacter{00CF}{\I}

\DeclareUnicodeCharacter{00D0}{\DH}
\DeclareUnicodeCharacter{00D1}{\~N}
\DeclareUnicodeCharacter{00D2}{\O}
\DeclareUnicodeCharacter{00D3}{\O}
\DeclareUnicodeCharacter{00D4}{\^O}
\DeclareUnicodeCharacter{00D5}{\~O}
\DeclareUnicodeCharacter{00D6}{\O}
\DeclareUnicodeCharacter{00D8}{\O}
\DeclareUnicodeCharacter{00D9}{\U}
\DeclareUnicodeCharacter{00DA}{\U}
\DeclareUnicodeCharacter{00DB}{\^U}
\DeclareUnicodeCharacter{00DC}{\U}
\DeclareUnicodeCharacter{00DD}{\Y}
\DeclareUnicodeCharacter{00DE}{\TH}
\DeclareUnicodeCharacter{00DF}{\ss}

\DeclareUnicodeCharacter{00E0}{\a}
\DeclareUnicodeCharacter{00E1}{\a}
\DeclareUnicodeCharacter{00E2}{\^a}
\DeclareUnicodeCharacter{00E3}{\~a}
\DeclareUnicodeCharacter{00E4}{\a}
\DeclareUnicodeCharacter{00E5}{\aa}
\DeclareUnicodeCharacter{00E6}{\ae}
\DeclareUnicodeCharacter{00E7}{\cedilla{c}}
\DeclareUnicodeCharacter{00E8}{\e}
\DeclareUnicodeCharacter{00E9}{\e}
\DeclareUnicodeCharacter{00EA}{\^e}
\DeclareUnicodeCharacter{00EB}{\e}
\DeclareUnicodeCharacter{00EC}{\{\dotless{i}\}}
\DeclareUnicodeCharacter{00ED}{\{\dotless{i}\}}
\DeclareUnicodeCharacter{00EE}{\^{\dotless{i}\}}
\DeclareUnicodeCharacter{00EF}{\{\dotless{i}\}}

\DeclareUnicodeCharacter{00F0}{\dh}
\DeclareUnicodeCharacter{00F1}{\~n}
\DeclareUnicodeCharacter{00F2}{\o}
\DeclareUnicodeCharacter{00F3}{\o}
\DeclareUnicodeCharacter{00F4}{\^o}

```

```

\DeclareUnicodeCharacter{00F5}{\~o}
\DeclareUnicodeCharacter{00F6}{\~o}
\DeclareUnicodeCharacter{00F8}{\o}
\DeclareUnicodeCharacter{00F9}{\u}
\DeclareUnicodeCharacter{00FA}{\u}
\DeclareUnicodeCharacter{00FB}{\^u}
\DeclareUnicodeCharacter{00FC}{\~u}
\DeclareUnicodeCharacter{00FD}{\y}
\DeclareUnicodeCharacter{00FE}{\th}
\DeclareUnicodeCharacter{00FF}{\~y}

\DeclareUnicodeCharacter{0100}{\=A}
\DeclareUnicodeCharacter{0101}{\=a}
\DeclareUnicodeCharacter{0102}{\u{A}}
\DeclareUnicodeCharacter{0103}{\u{a}}
\DeclareUnicodeCharacter{0104}{\ogonek{A}}
\DeclareUnicodeCharacter{0105}{\ogonek{a}}
\DeclareUnicodeCharacter{0106}{\^C}
\DeclareUnicodeCharacter{0107}{\^c}
\DeclareUnicodeCharacter{0108}{\^C}
\DeclareUnicodeCharacter{0109}{\^c}
\DeclareUnicodeCharacter{0118}{\ogonek{E}}
\DeclareUnicodeCharacter{0119}{\ogonek{e}}
\DeclareUnicodeCharacter{010A}{\dotaccent{C}}
\DeclareUnicodeCharacter{010B}{\dotaccent{c}}
\DeclareUnicodeCharacter{010C}{\v{C}}
\DeclareUnicodeCharacter{010D}{\v{c}}
\DeclareUnicodeCharacter{010E}{\v{D}}

\DeclareUnicodeCharacter{0112}{\=E}
\DeclareUnicodeCharacter{0113}{\=e}
\DeclareUnicodeCharacter{0114}{\u{E}}
\DeclareUnicodeCharacter{0115}{\u{e}}
\DeclareUnicodeCharacter{0116}{\dotaccent{E}}
\DeclareUnicodeCharacter{0117}{\dotaccent{e}}
\DeclareUnicodeCharacter{011A}{\v{E}}
\DeclareUnicodeCharacter{011B}{\v{e}}
\DeclareUnicodeCharacter{011C}{\^G}
\DeclareUnicodeCharacter{011D}{\^g}
\DeclareUnicodeCharacter{011E}{\u{G}}
\DeclareUnicodeCharacter{011F}{\u{g}}

\DeclareUnicodeCharacter{0120}{\dotaccent{G}}
\DeclareUnicodeCharacter{0121}{\dotaccent{g}}
\DeclareUnicodeCharacter{0124}{\^H}
\DeclareUnicodeCharacter{0125}{\^h}
\DeclareUnicodeCharacter{0128}{\~I}
\DeclareUnicodeCharacter{0129}{\~{\dotless{i}}}

```

```

\DeclareUnicodeCharacter{012A}{\=I}
\DeclareUnicodeCharacter{012B}{\={\dotless{i}}}
\DeclareUnicodeCharacter{012C}{\u{I}}
\DeclareUnicodeCharacter{012D}{\u{\dotless{i}}}

```

```

\DeclareUnicodeCharacter{0130}{\dotaccent{I}}
\DeclareUnicodeCharacter{0131}{\dotless{i}}
\DeclareUnicodeCharacter{0132}{IJ}
\DeclareUnicodeCharacter{0133}{ij}
\DeclareUnicodeCharacter{0134}{\^J}
\DeclareUnicodeCharacter{0135}{\^{dotless{j}}}
\DeclareUnicodeCharacter{0139}{\L}
\DeclareUnicodeCharacter{013A}{\l}

```

```

\DeclareUnicodeCharacter{0141}{\L}
\DeclareUnicodeCharacter{0142}{\l}
\DeclareUnicodeCharacter{0143}{\N}
\DeclareUnicodeCharacter{0144}{\n}
\DeclareUnicodeCharacter{0147}{\v{N}}
\DeclareUnicodeCharacter{0148}{\v{n}}
\DeclareUnicodeCharacter{014C}{\=O}
\DeclareUnicodeCharacter{014D}{\=o}
\DeclareUnicodeCharacter{014E}{\u{O}}
\DeclareUnicodeCharacter{014F}{\u{o}}

```

```

\DeclareUnicodeCharacter{0150}{\H{O}}
\DeclareUnicodeCharacter{0151}{\H{o}}
\DeclareUnicodeCharacter{0152}{\OE}
\DeclareUnicodeCharacter{0153}{\oe}
\DeclareUnicodeCharacter{0154}{\R}
\DeclareUnicodeCharacter{0155}{\r}
\DeclareUnicodeCharacter{0158}{\v{R}}
\DeclareUnicodeCharacter{0159}{\v{r}}
\DeclareUnicodeCharacter{015A}{\S}
\DeclareUnicodeCharacter{015B}{\s}
\DeclareUnicodeCharacter{015C}{\^S}
\DeclareUnicodeCharacter{015D}{\^s}
\DeclareUnicodeCharacter{015E}{\cedilla{S}}
\DeclareUnicodeCharacter{015F}{\cedilla{s}}

```

```

\DeclareUnicodeCharacter{0160}{\v{S}}
\DeclareUnicodeCharacter{0161}{\v{s}}
\DeclareUnicodeCharacter{0162}{\cedilla{t}}
\DeclareUnicodeCharacter{0163}{\cedilla{T}}
\DeclareUnicodeCharacter{0164}{\v{T}}

```

```

\DeclareUnicodeCharacter{0168}{\~U}
\DeclareUnicodeCharacter{0169}{\~u}

```



```

\DeclareUnicodeCharacter{016A}{\=U}
\DeclareUnicodeCharacter{016B}{\=u}
\DeclareUnicodeCharacter{016C}{\u{U}}
\DeclareUnicodeCharacter{016D}{\u{u}}
\DeclareUnicodeCharacter{016E}{\ringaccent{U}}
\DeclareUnicodeCharacter{016F}{\ringaccent{u}}

```

```

\DeclareUnicodeCharacter{0170}{\H{U}}
\DeclareUnicodeCharacter{0171}{\H{u}}
\DeclareUnicodeCharacter{0174}{\^W}
\DeclareUnicodeCharacter{0175}{\^w}
\DeclareUnicodeCharacter{0176}{\^Y}
\DeclareUnicodeCharacter{0177}{\^y}
\DeclareUnicodeCharacter{0178}{\`Y}
\DeclareUnicodeCharacter{0179}{\`Z}
\DeclareUnicodeCharacter{017A}{\`z}
\DeclareUnicodeCharacter{017B}{\dotaccent{Z}}
\DeclareUnicodeCharacter{017C}{\dotaccent{z}}
\DeclareUnicodeCharacter{017D}{\v{Z}}
\DeclareUnicodeCharacter{017E}{\v{z}}

```

```

\DeclareUnicodeCharacter{01C4}{D\v{Z}}
\DeclareUnicodeCharacter{01C5}{D\v{z}}
\DeclareUnicodeCharacter{01C6}{d\v{z}}
\DeclareUnicodeCharacter{01C7}{LJ}
\DeclareUnicodeCharacter{01C8}{Lj}
\DeclareUnicodeCharacter{01C9}{lj}
\DeclareUnicodeCharacter{01CA}{NJ}
\DeclareUnicodeCharacter{01CB}{Nj}
\DeclareUnicodeCharacter{01CC}{nj}
\DeclareUnicodeCharacter{01CD}{\v{A}}
\DeclareUnicodeCharacter{01CE}{\v{a}}
\DeclareUnicodeCharacter{01CF}{\v{I}}

```

```

\DeclareUnicodeCharacter{01D0}{\v{\dotless{i}}}
\DeclareUnicodeCharacter{01D1}{\v{O}}
\DeclareUnicodeCharacter{01D2}{\v{o}}
\DeclareUnicodeCharacter{01D3}{\v{U}}
\DeclareUnicodeCharacter{01D4}{\v{u}}

```

```

\DeclareUnicodeCharacter{01E2}{\={\AE}}
\DeclareUnicodeCharacter{01E3}{\={\ae}}
\DeclareUnicodeCharacter{01E6}{\v{G}}
\DeclareUnicodeCharacter{01E7}{\v{g}}
\DeclareUnicodeCharacter{01E8}{\v{K}}
\DeclareUnicodeCharacter{01E9}{\v{k}}

```

```

\DeclareUnicodeCharacter{01F0}{\v{\dotless{j}}}

```

```

\DeclareUnicodeCharacter{01F1}{DZ}
\DeclareUnicodeCharacter{01F2}{Dz}
\DeclareUnicodeCharacter{01F3}{dz}
\DeclareUnicodeCharacter{01F4}{\G}
\DeclareUnicodeCharacter{01F5}{\g}
\DeclareUnicodeCharacter{01F8}{\N}
\DeclareUnicodeCharacter{01F9}{\n}
\DeclareUnicodeCharacter{01FC}{\{\AE}}
\DeclareUnicodeCharacter{01FD}{\{\ae}}
\DeclareUnicodeCharacter{01FE}{\{\O}}
\DeclareUnicodeCharacter{01FF}{\{\o}}

\DeclareUnicodeCharacter{021E}{\v{H}}
\DeclareUnicodeCharacter{021F}{\v{h}}

\DeclareUnicodeCharacter{0226}{\dotaccent{A}}
\DeclareUnicodeCharacter{0227}{\dotaccent{a}}
\DeclareUnicodeCharacter{0228}{\cedilla{E}}
\DeclareUnicodeCharacter{0229}{\cedilla{e}}
\DeclareUnicodeCharacter{022E}{\dotaccent{O}}
\DeclareUnicodeCharacter{022F}{\dotaccent{o}}

\DeclareUnicodeCharacter{0232}{\=Y}
\DeclareUnicodeCharacter{0233}{\=y}
\DeclareUnicodeCharacter{0237}{\dotless{j}}

\DeclareUnicodeCharacter{02DB}{\ogonek{ }}

\DeclareUnicodeCharacter{1E02}{\dotaccent{B}}
\DeclareUnicodeCharacter{1E03}{\dotaccent{b}}
\DeclareUnicodeCharacter{1E04}{\udotaccent{B}}
\DeclareUnicodeCharacter{1E05}{\udotaccent{b}}
\DeclareUnicodeCharacter{1E06}{\ubaraccent{B}}
\DeclareUnicodeCharacter{1E07}{\ubaraccent{b}}
\DeclareUnicodeCharacter{1E0A}{\dotaccent{D}}
\DeclareUnicodeCharacter{1E0B}{\dotaccent{d}}
\DeclareUnicodeCharacter{1E0C}{\udotaccent{D}}
\DeclareUnicodeCharacter{1E0D}{\udotaccent{d}}
\DeclareUnicodeCharacter{1E0E}{\ubaraccent{D}}
\DeclareUnicodeCharacter{1E0F}{\ubaraccent{d}}

\DeclareUnicodeCharacter{1E1E}{\dotaccent{F}}
\DeclareUnicodeCharacter{1E1F}{\dotaccent{f}}

\DeclareUnicodeCharacter{1E20}{\=G}
\DeclareUnicodeCharacter{1E21}{\=g}
\DeclareUnicodeCharacter{1E22}{\dotaccent{H}}
\DeclareUnicodeCharacter{1E23}{\dotaccent{h}}

```

```
\DeclareUnicodeCharacter{1E24}{\udotaccent{H}}
\DeclareUnicodeCharacter{1E25}{\udotaccent{h}}
\DeclareUnicodeCharacter{1E26}{\H}
\DeclareUnicodeCharacter{1E27}{\h}
```

```
\DeclareUnicodeCharacter{1E30}{\K}
\DeclareUnicodeCharacter{1E31}{\k}
\DeclareUnicodeCharacter{1E32}{\udotaccent{K}}
\DeclareUnicodeCharacter{1E33}{\udotaccent{k}}
\DeclareUnicodeCharacter{1E34}{\ubaraccent{K}}
\DeclareUnicodeCharacter{1E35}{\ubaraccent{k}}
\DeclareUnicodeCharacter{1E36}{\udotaccent{L}}
\DeclareUnicodeCharacter{1E37}{\udotaccent{l}}
\DeclareUnicodeCharacter{1E3A}{\ubaraccent{L}}
\DeclareUnicodeCharacter{1E3B}{\ubaraccent{l}}
\DeclareUnicodeCharacter{1E3E}{\M}
\DeclareUnicodeCharacter{1E3F}{\m}
```

```
\DeclareUnicodeCharacter{1E40}{\dotaccent{M}}
\DeclareUnicodeCharacter{1E41}{\dotaccent{m}}
\DeclareUnicodeCharacter{1E42}{\udotaccent{M}}
\DeclareUnicodeCharacter{1E43}{\udotaccent{m}}
\DeclareUnicodeCharacter{1E44}{\dotaccent{N}}
\DeclareUnicodeCharacter{1E45}{\dotaccent{n}}
\DeclareUnicodeCharacter{1E46}{\udotaccent{N}}
\DeclareUnicodeCharacter{1E47}{\udotaccent{n}}
\DeclareUnicodeCharacter{1E48}{\ubaraccent{N}}
\DeclareUnicodeCharacter{1E49}{\ubaraccent{n}}
```

```
\DeclareUnicodeCharacter{1E54}{\P}
\DeclareUnicodeCharacter{1E55}{\p}
\DeclareUnicodeCharacter{1E56}{\dotaccent{P}}
\DeclareUnicodeCharacter{1E57}{\dotaccent{p}}
\DeclareUnicodeCharacter{1E58}{\dotaccent{R}}
\DeclareUnicodeCharacter{1E59}{\dotaccent{r}}
\DeclareUnicodeCharacter{1E5A}{\udotaccent{R}}
\DeclareUnicodeCharacter{1E5B}{\udotaccent{r}}
\DeclareUnicodeCharacter{1E5E}{\ubaraccent{R}}
\DeclareUnicodeCharacter{1E5F}{\ubaraccent{r}}
```

```
\DeclareUnicodeCharacter{1E60}{\dotaccent{S}}
\DeclareUnicodeCharacter{1E61}{\dotaccent{s}}
\DeclareUnicodeCharacter{1E62}{\udotaccent{S}}
\DeclareUnicodeCharacter{1E63}{\udotaccent{s}}
\DeclareUnicodeCharacter{1E6A}{\dotaccent{T}}
\DeclareUnicodeCharacter{1E6B}{\dotaccent{t}}
\DeclareUnicodeCharacter{1E6C}{\udotaccent{T}}
\DeclareUnicodeCharacter{1E6D}{\udotaccent{t}}
```

```

\DeclareUnicodeCharacter{1E6E}{\ubaraccent{T}}
\DeclareUnicodeCharacter{1E6F}{\ubaraccent{t}}

\DeclareUnicodeCharacter{1E7C}{\~V}
\DeclareUnicodeCharacter{1E7D}{\~v}
\DeclareUnicodeCharacter{1E7E}{\udotaccent{V}}
\DeclareUnicodeCharacter{1E7F}{\udotaccent{v}}

\DeclareUnicodeCharacter{1E80}{\`W}
\DeclareUnicodeCharacter{1E81}{\`w}
\DeclareUnicodeCharacter{1E82}{\`W}
\DeclareUnicodeCharacter{1E83}{\`w}
\DeclareUnicodeCharacter{1E84}{\`"W}
\DeclareUnicodeCharacter{1E85}{\`"w}
\DeclareUnicodeCharacter{1E86}{\dotaccent{W}}
\DeclareUnicodeCharacter{1E87}{\dotaccent{w}}
\DeclareUnicodeCharacter{1E88}{\udotaccent{W}}
\DeclareUnicodeCharacter{1E89}{\udotaccent{w}}
\DeclareUnicodeCharacter{1E8A}{\dotaccent{X}}
\DeclareUnicodeCharacter{1E8B}{\dotaccent{x}}
\DeclareUnicodeCharacter{1E8C}{\`X}
\DeclareUnicodeCharacter{1E8D}{\`x}
\DeclareUnicodeCharacter{1E8E}{\dotaccent{Y}}
\DeclareUnicodeCharacter{1E8F}{\dotaccent{y}}

\DeclareUnicodeCharacter{1E90}{\^Z}
\DeclareUnicodeCharacter{1E91}{\^z}
\DeclareUnicodeCharacter{1E92}{\udotaccent{Z}}
\DeclareUnicodeCharacter{1E93}{\udotaccent{z}}
\DeclareUnicodeCharacter{1E94}{\ubaraccent{Z}}
\DeclareUnicodeCharacter{1E95}{\ubaraccent{z}}
\DeclareUnicodeCharacter{1E96}{\ubaraccent{h}}
\DeclareUnicodeCharacter{1E97}{\`t}
\DeclareUnicodeCharacter{1E98}{\ringaccent{w}}
\DeclareUnicodeCharacter{1E99}{\ringaccent{y}}

\DeclareUnicodeCharacter{1EA0}{\udotaccent{A}}
\DeclareUnicodeCharacter{1EA1}{\udotaccent{a}}

\DeclareUnicodeCharacter{1EB8}{\udotaccent{E}}
\DeclareUnicodeCharacter{1EB9}{\udotaccent{e}}
\DeclareUnicodeCharacter{1EBC}{\~E}
\DeclareUnicodeCharacter{1EBD}{\~e}

\DeclareUnicodeCharacter{1ECA}{\udotaccent{I}}
\DeclareUnicodeCharacter{1ECB}{\udotaccent{i}}
\DeclareUnicodeCharacter{1ECC}{\udotaccent{O}}
\DeclareUnicodeCharacter{1ECD}{\udotaccent{o}}

```

```

\DeclareUnicodeCharacter{1EE4}{\udotaccent{U}}
\DeclareUnicodeCharacter{1EE5}{\udotaccent{u}}

\DeclareUnicodeCharacter{1EF2}{\`Y}
\DeclareUnicodeCharacter{1EF3}{\`y}
\DeclareUnicodeCharacter{1EF4}{\udotaccent{Y}}

\DeclareUnicodeCharacter{1EF8}{\~Y}
\DeclareUnicodeCharacter{1EF9}{\~y}

\DeclareUnicodeCharacter{2013}{--}
\DeclareUnicodeCharacter{2014}{---}
\DeclareUnicodeCharacter{2018}{\quoteleft}
\DeclareUnicodeCharacter{2019}{\quoteright}
\DeclareUnicodeCharacter{201A}{\quotesinglbase}
\DeclareUnicodeCharacter{201C}{\quotedblleft}
\DeclareUnicodeCharacter{201D}{\quotedblright}
\DeclareUnicodeCharacter{201E}{\quotedblbase}
\DeclareUnicodeCharacter{2022}{\bullet}
\DeclareUnicodeCharacter{2026}{\dots}
\DeclareUnicodeCharacter{2039}{\guilsinglleft}
\DeclareUnicodeCharacter{203A}{\guilsinglright}
\DeclareUnicodeCharacter{20AC}{\euro}

\DeclareUnicodeCharacter{2192}{\expansion}
\DeclareUnicodeCharacter{21D2}{\result}

\DeclareUnicodeCharacter{2212}{\minus}
\DeclareUnicodeCharacter{2217}{\point}
\DeclareUnicodeCharacter{2261}{\equiv}
}% end of \utfeightchardefs

% US-ASCII character definitions.
\def\asciichardefs{% nothing need be done
  \relax
}

% Make non-ASCII characters printable again for compatibility with
% 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
\subseheadingskip = 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 TeX 3.0's \emergencystretch to help line breaking, but if we're
% using an old version of TeX, don't do anything. We want the amount of
% stretch added to depend on the line length, hence the dependence on
% \hspace. We call this whenever the paper size is set.
%
\def\setemergencystretch{%
\ifx\emergencystretch\thisisundefined
% Allow us to assign to \emergencystretch anyway.
\def\emergencystretch{\dimen0}%
\else
\emergencystretch = .15\hspace
\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
\splittopskip = \topskip
%
\vsizer = #1\relax
\advance\vsizer by \topskip
\outerversize = \vsizer
\advance\outerversize by 2\topandbottommargin
\pageheight = \vsizer
%

```

```

\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
  % if we don't reset these, they will remain at "1 true in" of
  % whatever layout pdftex was dumped with.
  \pdfhorigin = 1 true in
  \pdfvorigin = 1 true in
\fi
%
\setleading{\textleading}
%
\parindent = \defaultparindent
\setemergencystretch
}

% @letterpaper (the default).
\def\letterpaper{\globaldefs = 1
\parskip = 3pt plus 2pt minus 1pt
\textleading = 13.2pt
%
% If page is nothing but text, make it come out even.
\internalpagesizes{607.2pt}{6in}% that's 46 lines
    {\voffset}{.25in}%
    {\bindingoffset}{36pt}%
    {11in}{8.5in}%
}}

% Use @smallbook to reset parameters for 7x9.25 trim size.
\def\smallbook{\globaldefs = 1
\parskip = 2pt plus 1pt
\textleading = 12pt
%
\internalpagesizes{7.5in}{5in}%
    {-.2in}{0in}%
    {\bindingoffset}{16pt}%
    {9.25in}{7in}%
%
\lispnarrowing = 0.3in
\tolerance = 700
\hfuzz = 1pt

```

```

\contentsrightmargin = 0pt
\defbodyindent = .5cm
}}

% Use @smallerbook to reset parameters for 6x9 trim size.
% (Just testing, parameters still in flux.)
\def\smallerbook{ {\globaldefs = 1
\parskip = 1.5pt plus 1pt
\textleading = 12pt
%
\internalpagesizes{7.4in}{4.8in}%
        {-.2in}{-.4in}%
        {0pt}{14pt}%
        {9in}{6in}%
%
\lispnarrowing = 0.25in
\tolerance = 700
\hfuzz = 1pt
\contentsrightmargin = 0pt
\defbodyindent = .4cm
}}

% Use @afourpaper to print on European A4 paper.
\def\afourpaper{ {\globaldefs = 1
\parskip = 3pt plus 2pt minus 1pt
\textleading = 13.2pt
%
% Double-side printing via postscript on Laserjet 4050
% prints double-sided nicely when \bindingoffset=10mm and \hoffset=-6mm.
% To change the settings for a different printer or situation, adjust
% \normaloffset until the front-side and back-side texts align. Then
% do the same for \bindingoffset. You can set these for testing in
% your texinfo source file like this:
% @tex
% \global\normaloffset = -6mm
% \global\bindingoffset = 10mm
% @end tex
\internalpagesizes{673.2pt}{160mm}% that's 51 lines
        {\voffset}{\hoffset}%
        {\bindingoffset}{44pt}%
        {297mm}{210mm}%
%
\tolerance = 700
\hfuzz = 1pt
\contentsrightmargin = 0pt
\defbodyindent = 5mm
}}

```



```

% Use @afivepaper to print on European A5 paper.
% From romildo@urano.iceb.ufop.br, 2 July 2000.
% He also recommends making @example and @lisp be small.
\def\afivepaper{\globaldefs = 1
\parskip = 2pt plus 1pt minus 0.1pt
\textleading = 12.5pt
%
\internalpagesizes{160mm}{120mm}%
    {\voffset}{\hoffset}%
    {\bindingoffset}{8pt}%
    {210mm}{148mm}%
%
\lispnarrowing = 0.2in
\tolerance = 800
\hfuzz = 1.2pt
\contentsrightmargin = 0pt
\defbodyindent = 2mm
\tableindent = 12mm
}}

% A specific text layout, 24x15cm overall, intended for A4 paper.
\def\afourlatex{\globaldefs = 1
\afourpaper
\internalpagesizes{237mm}{150mm}%
    {\voffset}{4.6mm}%
    {\bindingoffset}{7mm}%
    {297mm}{210mm}%
%
% Must explicitly reset to 0 because we call \afourpaper.
\globaldefs = 0
}}

% Use @afourwide to print on A4 paper in landscape format.
\def\afourwide{\globaldefs = 1
\afourpaper
\internalpagesizes{241mm}{165mm}%
    {\voffset}{-2.95mm}%
    {\bindingoffset}{7mm}%
    {297mm}{210mm}%
\globaldefs = 0
}}

% @pagesizes TEXTHEIGHT[,TEXTWIDTH]
% 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 #1\else #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 #1\else #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=\^
\catcode`\^=\active
\def^{{\tt \hat}}

\catcode`\_=\active
\def_{\ifusingtt\normalunderscore\_}
\let\realunder=_
% Subroutine for the previous macro.
\def_{\leavevmode \kern.07em \vbox{\hrule width.3em height.1ex}\kern .07em }

\catcode`\|=\active
\def|{{\tt\char124}}
\chardef \less=\<
\catcode`\<=\active
\def<{{\tt \less}}
\chardef \gtr=\>
\catcode`\>=\active
\def>{{\tt \gtr}}
\catcode`\+=\active
\def+{{\tt \char 43}}
\catcode`\$=\active
\def${\ifusingit{{\sl\$}}\normaldollar}% $ 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

% \realbackslash is an actual character `\' with catcode other, and
% \doublebackslash is two of them (for the pdf outlines).
{\catcode`\|=\other @gdef@realbackslash{ } @gdef@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 "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 `\' . 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 \eatinp is for; after that, the '\' should revert to printing
% a backslash.
%
@gdef@eatinp input texinfo{ @fixbackslash }
@global@let\ = @eatinp

% 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\@eatinp @let\ = @normalbackslash @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 txcodeword and
@c txcodewordbacktick 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 vim:sw=2:

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

```

## 1.262 libffi/doc 3.2.1

### 1.262.1 Available under license :

```

#!/bin/sh

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```

```

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#
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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
      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 $1"
shift 1
;;
-DUSE_STATIC_RTL)
# Link against static CRT.
static_crt=1
shift 1
;;
-DUSE_DEBUG_RTL)
# Link against debug CRT.
debug_crt=1
shift 1
;;
-c)
args="$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="$args -D${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)
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"
fi

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 $src|sed 's/\.S$/\.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 *.obj $outdir
else
    args="$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

% texinfo.tex -- TeX macros to handle Texinfo files.
%
% Load plain if necessary, i.e., if running under initex.
\expandafter\ifx\csname fmtname\endcsname\relax\input plain\fi
%
\def\texinfoversion{2013-02-01.11}
%
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%
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% restriction. This Exception is an additional permission under section 7
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%
% Please try the latest version of texinfo.tex before submitting bug
% reports; you can get the latest version from:
% http://ftp.gnu.org/gnu/texinfo/ (the Texinfo release area), or
% http://ftpmirror.gnu.org/texinfo/ (same, via a mirror), or
% http://www.gnu.org/software/texinfo/ (the Texinfo home page)
% The texinfo.tex in any given distribution could well be out
% 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=,
\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\ptexlbrace=\{

```

```

\let\ptexless=<
\let\ptexnewwrite\newwrite
\let\ptexnoindent=\noindent
\let\ptexplus=+
\let\ptexraggedright=\raggedright
\let\ptexrbrace=\}
\let\ptexslash=\
\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{1.\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\putwordin\undefined \gdef\putwordin{in}\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
\ifx\putwordDefspec\undefined \gdef\putwordDefspec{Special Form}\fi
\ifx\putwordDefvar\undefined \gdef\putwordDefvar{Variable}\fi
\ifx\putwordDefopt\undefined \gdef\putwordDefopt{User Option}\fi
\ifx\putwordDeffunc\undefined \gdef\putwordDeffunc{Function}\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
```

```
\ifx\TeXversion\thisisundefined\else % etex gives us more logging
```

```
\tracingscantokens1
```

```
\tracingifs1
```

```
\tracinggroups1
```

```
\tracingnesting2
```

```
\tracingassigns1
```

```
\fi
```

```
\tracingcommands3 % 3 gives us more in etex
```

```
\errorcontextlines16
```

```
}%
```

```
% @errmsg{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
\remove\lastskip\penalty-50\smallskip\fi\fi}
\def\medbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\medskipamount
\remove\lastskip\penalty-100\medskip\fi\fi}
\def\bigbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\bigskipamount
\remove\lastskip\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 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
% the headline as they should be, not taken literally (outputting "code").
\ifodd\pageno \getoddheadingmarks \else \getevenheadingmarks \fi
\setbox\headlinebox = \vbox{\let\hsize=\pagewidth \makeheadline}%
\ifodd\pageno \getoddfootingmarks \else \getevenfootingmarks \fi
\setbox\footlinebox = \vbox{\let\hsize=\pagewidth \makefootline}%
%
}%
% Have to do this stuff outside the \shipout because we want it to

```

```

% take effect in \write's, yet the group defined by the \vbox ends
% before the \shipout runs.
%
\indexdummies      % don't expand commands in the output.
\normalturnoffactive % \ in index entries must not stay \, e.g., if
    % the page break happens to be in the middle of an example.
    % We don't want .vr (or whatever) entries like this:
    % \entry{{\tt \indexbackslash }acronym}{32}{\code {\acronym}}
    % "\acronym" won't work when it's read back in;
    % it needs to be
    % {\code {{\tt \backslashcurfont }acronym}}
\shipout\vbox{%
% Do this early so pdf references go to the beginning of the page.
\ifpdfmakepagedest \pdfdest name{\the\pageno} xyz\fi
%
\ifcropmarks \vbox to \outervsize\bgroup
\hsize = \outerhsize
\vskip-\topandbottommargin
\vtop to0pt{%
\line{\ewtop\hfil\ewtop}%
\nointerlineskip
\line{%
\vbox{\moveleft\cornerthick\nstop}%
\hfill
\vbox{\moveright\cornerthick\nstop}%
}%
\vss}%
\vskip\topandbottommargin
\line\bgroup
\hfil % center the page within the outer (page) hsize.
\ifodd\pageno\hskip\bindingoffset\fi
\vbox\bgroup
\fi
%
\unvbox\headlinebox
\pagebody{#1}%
\ifdim\ht\footlinebox > 0pt
% Only leave this space if the footline is nonempty.
% (We lessened \vsize for it in \oddfootingyyy.)
% The \baselineskip=24pt in plain's \makefootline has no effect.
\vskip 24pt
\unvbox\footlinebox
\fi
%
\ifcropmarks
\egroup % end of \vbox\bgroup
\hfil\egroup % end of (centering) \line\bgroup
\vskip\topandbottommargin plus1fill minus1fill

```

```

\boxmaxdepth = \cornerthick
\ vbox to0pt{\vss
\line{%
\ vbox{\moveleft\cornerthick\nsbot}%
\hfill
\ vbox{\moveright\cornerthick\nsbot}%
}%
\nointerlineskip
\line{\ewbot\hfil\ewbot}%
}%
\egroup % \vbox from first cropmarks clause
\fi
}% end of \shipout\vbox
}% end of group with \indexdummies
\advancepageno
\ifnum\outputpenalty>-20000 \else\dosupereject\fi
}

\newinsert\margin \dimen\margin=\maxdimen

\def\pagebody#1{\vbox to\pageheight{\boxmaxdepth=\maxdepth #1}}
{\catcode\@ =11
\gdef\pagecontents#1{\ifvoid\topins\else\unvbox\topins\fi
% marginal hacks, juha@viisa.uucp (Juha Takala)
\ifvoid\margin\else % marginal info is present
\rlap{\kern\hsize\vbox to\z@{\kern1pt\box\margin \vss}}\fi
\dimen@=\dp#1\relax \unvbox#1\relax
\ifvoid\footins\else\vskip\skip\footins\footnoterule \unvbox\footins\fi
\ifr@ggedbottom \kern-\dimen@ \vfil \fi}
}

% Here are the rules for the cropmarks. Note that they are
% offset so that the space between them is truly \outerhsize or \outervsize
% (P. A. MacKay, 12 November, 1986)
%
\def\ewtop{\vrule height\cornerthick depth0pt width\cornerlong}
\def\nstop{\vbox
{\hrule height\cornerthick depth\cornerlong width\cornerthick}}
\def\ewbot{\vrule height0pt depth\cornerthick width\cornerlong}
\def\nsbot{\vbox
{\hrule height\cornerlong depth\cornerthick width\cornerthick}}

% 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}%
\beginingroup
\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\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{\argcheckspacesY#1^^M}
\def\argcheckspacesY#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%
}
\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

```

```

% 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.
\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\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 \lisppar.
  \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 < \vfillimit\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.
\top 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{\advance \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%
\lap{\ignorespaces #2\hskip\inmarginspacing}%
\else
\rlap{\hskip\hsize \hskip\inmarginspacing \ignorespaces #2}%
\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}
\def\parseinmargin#1,#2,#3\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
\def\righttext{#1}%
\fi
%
\ifodd\pageno
\def\temp{\inrightmargin\righttext}% odd page -> outside is right margin
\else
\def\temp{\inleftmargin\lefttext}%
\fi

```

```

\temp
}

% @| inserts a changebar to the left of the current line. It should
% surround any changed text. This approach does *not* work if the
% change spans more than two lines of output. To handle that, we would
% have adopt a much more difficult approach (putting marks into the main
% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
%
\def|{|%
% \adjust can only be used in horizontal mode.
\leavevmode
%
% Append this vertical mode material after the current line in the output.
\adjust{%
% 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
%
% \adjust-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 height\baselineskip 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\filenameecatcodes{%
\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
\ifnum\centerpenalty>10000 \vskip\parskip \fi
\ifnum\centerpenalty>9999 \penalty\centerpenalty \fi
\line{\kern\leftskip #1\kern\rightskip}%
}

% @sp n outputs n lines of vertical space
%
\parseargdef\sp{\vskip #1\baselineskip}

% @comment ...line which is ignored...
% @c is the same as @comment
% @ignore ... @end ignore is another way to write a comment
%
\def\comment{\begingroup \catcode\^M=\other%
\catcode\@=\other \catcode\{=\other \catcode\}=\other%
\commentxxx }
{\catcode\^M=\other \gdef\commentxxx#1^M{\endgroup}}
%
\let\c=\comment

% @paragraphindent NCHARS
% We'll use ems for NCHARS, close enough.
% NCHARS can also be the word `asis' or `none'.
% We cannot feasibly implement @paragraphindent asis, though.
%
\def\asisword{asis} % no translation, these are keywords
\def\noneword{none}
%
\parseargdef\paragraphindent{%
\def\temp{#1}%
\if\temp\asisword
\else
\if\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
\let\suppressfirstparagraphindent = \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\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 '\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

```

```

\let\setfilename=\comment % Ignore extra @setfilename cmds.
%
% If texinfo.cnf is present on the system, read it.
% Useful for site-wide @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}%
}

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

\message{pdf,}
% adobe `portable' document format
\newcount\tempnum
\newcount\lnkcount
\newtoks\filename
\newcount\filenamelen
\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 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\pdfsetcolor#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\setcolor#1{%
  \xdef\lastcolordefs{\gdef\noexpand\thiscolor{#1}}%
  \domark
  \pdfsetcolor{#1}%
}
%
\def\maincolor{\rgbBlack}
\pdfsetcolor{\maincolor}
\edef\thiscolor{\maincolor}
\def\lastcolordefs{}
%
\def\makefootline{%
  \baselineskip24pt
  \line{\pdfsetcolor{\maincolor}\the\footline}%
}
%
\def\makeheadline{%
  \vbox to 0pt{%
    \vskip-22.5pt
    \line{%
      \vbox to 8.5pt{}%
      % Extract \thiscolor definition from the marks.
      \getcolormarks
      % Typeset the headline with \maincolor, then restore the color.
      \pdfsetcolor{\maincolor}\the\headline\pdfsetcolor{\thiscolor}%
    }%
    \vss
  }%
  \nointerlineskip
}
%
%
\pdfcatalog{/PageMode /UseOutlines}
%
% #1 is image name, #2 width (might be empty/whitespace), #3 height (ditto).
\def\dopdfimage#1#2#3{%
  \def\pdfimagewidth{#2}\setbox0 = \hbox{\ignorespaces #2}%
  \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 \gdef\pdfimgext{JPG}%
\fi
\else \gdef\pdfimgext{jpeg}%
\fi
\else \gdef\pdfimgext{jpg}%
\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\relax 0%
\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.
\edef\pdfoutlinedest{#3}%
\ifx\pdfoutlinedest\empty
\def\pdfoutlinedest{#4}%
\else
\txiescapepdf\pdfoutlinedest
\fi
%
% Also escape PDF chars in the display string.
\edef\pdffoulinetext{#1}%
\txiescapepdf\pdffoulinetext
%
\pdfoutline goto name{\pdfmkpgn{\pdfoutlinedest}}#2{\pdffoulinetext}%
}
%
\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{%
\def\thischapnum{##2}%
\def\thissecnum{0}%
\def\thissubsecnum{0}%
}%
\def\numsecentry##1##2##3##4{%
\advancenumber{chap\thischapnum}%
\def\thissecnum{##2}%
\def\thissubsecnum{0}%
}%
\def\numsubsecentry##1##2##3##4{%
\advancenumber{sec\thissecnum}%
\def\thissubsecnum{##2}%
}%
\def\numsubsubsecentry##1##2##3##4{%
\advancenumber{subsec\thissubsecnum}%
}%
\def\thischapnum{0}%
\def\thissecnum{0}%
\def\thissubsecnum{0}%
%
% use \def rather than \let here because we redefine \chapentry et
% al. a second time, below.
\def\appentry{\numchapentry}%
\def\appsecentry{\numsecentry}%
\def\appsubsecentry{\numsubsecentry}%
\def\appsubsubsecentry{\numsubsubsecentry}%
\def\unnchapentry{\numchapentry}%
\def\unnsecentry{\numsecentry}%
\def\unnsubsecentry{\numsubsecentry}%
\def\unnsubsubsecentry{\numsubsubsecentry}%
\readdatafile{toc}%
%
% Read toc second time, this time actually producing the outlines.
% The '-' means take the \expnumber as the absolute number of
% subentries, which we calculated on our first read of the .toc above.
%
% We use the node names as the destinations.
\def\numchapentry##1##2##3##4{%
\pdfoutline{##1}{count-\expnumber{chap##2}}{##3}{##4}}%
\def\numsecentry##1##2##3##4{%
\pdfoutline{##1}{count-\expnumber{sec##2}}{##3}{##4}}%
\def\numsubsecentry##1##2##3##4{%
\pdfoutline{##1}{count-\expnumber{subsec##2}}{##3}{##4}}%
\def\numsubsubsecentry##1##2##3##4{% count is always zero
\pdfoutline{##1}{}{##3}{##4}}%

```

```

%
% 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 this right, 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{\lbracketcharliteral}%
\def{\rbracketcharliteral}%
\catcode`\|=active \otherbackslash
\input \tocreadfilename
\endgroup
}
{\catcode`[=1 \catcode`=2
\catcode`\|=other \catcode`\|=other
\gdef\lbracketcharliteral[{}%
\gdef\rbracketcharliteral[{}%
]
%
\def\skipspace#1{\def\PP{#1}\def\D{}}%
\ifx\PP\D\let\nextsp\relax
\else\let\nextsp\skipspace
\addtokens{\filename}{\PP}%
\advance\filenamelen by 1
\fi
\nextsp}
\def\getfilename#1{%
\filenamelen=0
% If we don't expand the argument now, \skipspace will get
% snagged on things like "@value{foo}".
\edef\temp{#1}%
\expandafter\skipspace\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\adn0
  \else\ifx\first1\adn1 \else\ifx\first2\adn2 \else\ifx\first3\adn3
  \else\ifx\first4\adn4 \else\ifx\first5\adn5 \else\ifx\first6\adn6
  \else\ifx\first7\adn7 \else\ifx\first8\adn8 \else\ifx\first9\adn9
  \else
  \ifnum0=\countA\else\makelink\fi
  \ifx\first.\let\next=\done\else
  \let\next=\maketoks
  \addtokens{\toksB}{\the\toksD}
  \ifx\first,\addtokens{\toksB}{\space}\fi
  \fi
  \fi\fi\fi\fi\fi\fi\fi\fi\fi\fi
  \next}
\def\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 % \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=\tffam \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 = \baselinefactor\dimen0
\normallineskip = \lineskipfactor\normalbaselineskip
\normalbaselines
\setbox\strutbox =\hbox{%
\vrule width0pt height\strutheightpercent\normalbaselineskip
depth \strutdepthpercent \normalbaselineskip
}%
}

% 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.)
\ifpdf \ifx\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
begincmap
/CIDSystemInfo
<< /Registry (TeX)
/Ordering (OT1)
/Supplement 0
>> def
/CMAPName /TeX-OT1-0 def
/CMAPType 2 def
1 begincodespacerange

```

<00> <7F>  
endcodespacerrange  
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  
<02> <0398>  
<03> <039B>  
<04> <039E>  
<05> <03A0>  
<06> <03A3>  
<07> <03D2>  
<08> <03A6>  
<0B> <00660066>  
<0C> <00660069>  
<0D> <0066006C>  
<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>  
<21> <0021>  
<22> <201D>  
<27> <2019>  
<3C> <00A1>  
<3D> <003D>  
<3E> <00BF>  
<5C> <201C>

```

<5F> <02D9>
<60> <2018>
<7D> <02DD>
<7E> <007E>
<7F> <00A8>
endbfchar
endcmap
CMapName currentdict /CMap defineresource pop
end
end
%%EndResource
%%EOF
} \endgroup
\expandafter\edef\csname cmapOT1\endcsname#1{ %
\pdffontattr#1{/ToUnicode \the\pdfobj\space 0 R}%
}%
%
% \cmapOT1IT
\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-OT1IT-0)
%%Title: (TeX-OT1IT-0 TeX OT1IT 0)
%%Version: 1.000
%%EndComments
/CIDInit /ProcSet findresource begin
12 dict begin
begincmap
/CIDSystemInfo
<< /Registry (TeX)
/Ordering (OT1IT)
/Supplement 0
>> def
/CMapName /TeX-OT1IT-0 def
/CMapType 2 def
1 begincodespacerange
<00> <7F>
endcodespacerange
8 beginbfrange
<00> <01> <0393>
<09> <0A> <03A8>
<25> <26> <0025>
<28> <3B> <0028>
<3F> <5B> <003F>
<5D> <5E> <005D>
<61> <7A> <0061>

```

```
<7B> <7C> <2013>
endbfrange
42 beginbfchar
<02> <0398>
<03> <039B>
<04> <039E>
<05> <03A0>
<06> <03A3>
<07> <03D2>
<08> <03A6>
<0B> <00660066>
<0C> <00660069>
<0D> <0066006C>
<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>
<21> <0021>
<22> <201D>
<23> <0023>
<24> <00A3>
<27> <2019>
<3C> <00A1>
<3D> <003D>
<3E> <00BF>
<5C> <201C>
<5F> <02D9>
<60> <2018>
<7D> <02DD>
<7E> <007E>
<7F> <00A8>
endbfchar
endcmap
CMapName currentdict /CMap defineresource pop
```

```

end
end
%%EndResource
%%EOF
}endgroup
\expandafter\edef\csmname cmapOT1IT\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
%%DocumentNeededResources: ProcSet (CIDInit)
%%IncludeResource: ProcSet (CIDInit)
%%BeginResource: CMap (TeX-OT1TT-0)
%%Title: (TeX-OT1TT-0 TeX OT1TT 0)
%%Version: 1.000
%%EndComments
/CIDInit /ProcSet findresource begin
12 dict begin
begincmap
/CIDSystemInfo
<< /Registry (TeX)
/Ordering (OT1TT)
/Supplement 0
>> def
/CMAPName /TeX-OT1TT-0 def
/CMAPType 2 def
1 begincodespacerange
<00> <7F>
endcodespacerange
5 beginbfrange
<00> <01> <0393>
<09> <0A> <03A8>
<21> <26> <0021>
<28> <5F> <0028>
<61> <7E> <0061>
endbfrange
32 beginbfchar
<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\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.
\let\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\rmshape{bx}          % where the normal face is bold
\def\bfshape{b}
\def\bxshape{bx}
\def\ttshape{tt}
\def\btshape{tt}
\def\tslshape{slt}
\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\definetextfontsize#1{%
% Text fonts (11.2pt, magstep1).
\def\textnominalsize{11pt}
\edef\mainmagstep{\magstephalf}
\setfont\textrm\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\textsc\scshape{10}{\mainmagstep}{OT1}
\setfont\textttsl\tslshape{10}{\mainmagstep}{OT1TT}
\font\texti=cmmi10 scaled \mainmagstep
\font\textsy=cmsy10 scaled \mainmagstep

```

```

\def\textecsize{1095}

% A few fonts for @defun names and args.
\setfont\defbf\bfshape{10}{\magstep1}{OT1}
\setfont\deftt\ttshape{10}{\magstep1}{OT1TT}
\setfont\defttsl\ttslshape{10}{\magstep1}{OT1TT}
\def\df{\let\tentt=\deftt \let\tenbf = \defbf \let\tenttsl=\defttsl \bf}

% Fonts for indices, footnotes, small examples (9pt).
\def\smallnominalsize{9pt}
\setfont\smallrm\rmshape{9}{1000}{OT1}
\setfont\smalltt\ttshape{9}{1000}{OT1TT}
\setfont\smallbf\bfshape{10}{900}{OT1}
\setfont\smallit\itshape{9}{1000}{OT1IT}
\setfont\smallsl\slshape{9}{1000}{OT1}
\setfont\smallsf\sfshape{9}{1000}{OT1}
\setfont\smallsc\scshape{10}{900}{OT1}
\setfont\smallttsl\ttslshape{10}{900}{OT1TT}
\font\smalli=cmmi9
\font\smallsy=cmsy9
\def\smallecsize{0900}

% Fonts for small examples (8pt).
\def\smallernominalsize{8pt}
\setfont\smallerm\rmshape{8}{1000}{OT1}
\setfont\smallertt\ttshape{8}{1000}{OT1TT}
\setfont\smallerb\bfshape{10}{800}{OT1}
\setfont\smallerit\itshape{8}{1000}{OT1IT}
\setfont\smallersl\slshape{8}{1000}{OT1}
\setfont\smallersf\sfshape{8}{1000}{OT1}
\setfont\smallersc\scshape{10}{800}{OT1}
\setfont\smallerttsl\ttslshape{10}{800}{OT1TT}
\font\smalleri=cmmi8
\font\smallersy=cmsy8
\def\smallerecsize{0800}

% Fonts for title page (20.4pt):
\def\titlenominalsize{20pt}
\setfont\titlrm\rmshape{12}{\magstep3}{OT1}
\setfont\titleit\itshape{10}{\magstep4}{OT1IT}
\setfont\titlesl\slshape{10}{\magstep4}{OT1}
\setfont\titlett\ttshape{12}{\magstep3}{OT1TT}
\setfont\titletsl\ttslshape{10}{\magstep4}{OT1TT}
\setfont\titlesf\sfshape{17}{\magstep1}{OT1}
\let\titlebf=\titlrm
\setfont\titlesc\scshape{10}{\magstep4}{OT1}
\font\titlei=cmmi12 scaled \magstep3
\font\titlesy=cmsy10 scaled \magstep4

```

```

\def\titleecsize{2074}

% Chapter (and unnumbered) fonts (17.28pt).
\def\chapnominalsize{17pt}
\setfont\chapr\rmshape{12}{\magstep2}{OT1}
\setfont\chapit\itshape{10}{\magstep3}{OT1IT}
\setfont\chapsl\slshape{10}{\magstep3}{OT1}
\setfont\chaptt\ttshape{12}{\magstep2}{OT1TT}
\setfont\chapttsl\ttslshape{10}{\magstep3}{OT1TT}
\setfont\chapsf\sfbshape{17}{1000}{OT1}
\let\chapbf=\chapr
\setfont\chapsc\scshape{10}{\magstep3}{OT1}
\font\chapi=cmmi12 scaled \magstep2
\font\chapsy=cmsy10 scaled \magstep3
\def\chapecsize{1728}

% Section fonts (14.4pt).
\def\secnominalsize{14pt}
\setfont\secrm\rmshape{12}{\magstep1}{OT1}
\setfont\secit\itshape{10}{\magstep2}{OT1IT}
\setfont\secsl\slshape{10}{\magstep2}{OT1}
\setfont\sectt\ttshape{12}{\magstep1}{OT1TT}
\setfont\secttsl\ttslshape{10}{\magstep2}{OT1TT}
\setfont\secsf\sfbshape{12}{\magstep1}{OT1}
\let\secbf\secrm
\setfont\secsc\scshape{10}{\magstep2}{OT1}
\font\seci=cmmi12 scaled \magstep1
\font\secsy=cmsy10 scaled \magstep2
\def\sececsz{1440}

% Subsection fonts (13.15pt).
\def\ssecnominalsize{13pt}
\setfont\ssecrm\rmshape{12}{\magstephalf}{OT1}
\setfont\ssecit\itshape{10}{1315}{OT1IT}
\setfont\ssecsl\slshape{10}{1315}{OT1}
\setfont\ssectt\ttshape{12}{\magstephalf}{OT1TT}
\setfont\ssecttsl\ttslshape{10}{1315}{OT1TT}
\setfont\ssecsf\sfbshape{12}{\magstephalf}{OT1}
\let\ssecbf\ssecrm
\setfont\ssecsc\scshape{10}{1315}{OT1}
\font\sseci=cmmi12 scaled \magstephalf
\font\ssecsy=cmsy10 scaled 1315
\def\ssececsz{1200}

% Reduced fonts for @acro in text (10pt).
\def\reducednominalsize{10pt}
\setfont\reducedrm\rmshape{10}{1000}{OT1}
\setfont\reducedtt\ttshape{10}{1000}{OT1TT}

```

```

\setfont\reducedbf\bfshape{10}{1000}{OT1}
\setfont\reducedit\itshape{10}{1000}{OT1IT}
\setfont\reducedsl\slshape{10}{1000}{OT1}
\setfont\reducedsf\sfsshape{10}{1000}{OT1}
\setfont\reducedsc\scshape{10}{1000}{OT1}
\setfont\reducedttsl\ttslshape{10}{1000}{OT1TT}
\font\reducedi=cmmi10
\font\reducedsy=cmsy10
\def\reducedecsize{1000}

\textleading = 13.2pt % line spacing for 11pt CM
\textfonts          % reset the current fonts
\rm
} % end of 11pt text font size definitions, \definetextfontsize

% 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\definetextfontsize{%
% Text fonts (10pt).
\def\textnominalsize{10pt}
\edef\mainmagstep{1000}
\setfont\textrm\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\sfsshape{10}{\mainmagstep}{OT1}
\setfont\textsc\scshape{10}{\mainmagstep}{OT1}
\setfont\textttsl\ttslshape{10}{\mainmagstep}{OT1TT}
\font\texti=cmmi10 scaled \mainmagstep
\font\textsy=cmsy10 scaled \mainmagstep
\def\textecsize{1000}

% A few fonts for @defun names and args.
\setfont\defbf\bfshape{10}{\magstephalf}{OT1}
\setfont\deftt\ttshape{10}{\magstephalf}{OT1TT}
\setfont\defttsl\ttslshape{10}{\magstephalf}{OT1TT}
\def\df{\let\tentt=\deftt\let\tenbf=\defbf\let\tenttsl=\defttsl\bf}

% Fonts for indices, footnotes, small examples (9pt).
\def\smallnominalsize{9pt}
\setfont\smallrm\rmshape{9}{1000}{OT1}
\setfont\smalltt\ttshape{9}{1000}{OT1TT}
\setfont\smallbf\bfshape{10}{900}{OT1}

```

```

\setfont\smallit\itshape{9}{1000}{OT1IT}
\setfont\smallsl\slshape{9}{1000}{OT1}
\setfont\smallsf\sfshape{9}{1000}{OT1}
\setfont\smallsc\scshape{10}{900}{OT1}
\setfont\smallttsl\ttslshape{10}{900}{OT1TT}
\font\smalli=cmmi9
\font\smallsy=cmsy9
\def\smallecsiz{0900}

```

% Fonts for small examples (8pt).

```

\def\smallernominalsize{8pt}
\setfont\smallerrm\rmshape{8}{1000}{OT1}
\setfont\smallertt\ttshape{8}{1000}{OT1TT}
\setfont\smallerbf\bfshape{10}{800}{OT1}
\setfont\smallerit\itshape{8}{1000}{OT1IT}
\setfont\smallersl\slshape{8}{1000}{OT1}
\setfont\smallersf\sfshape{8}{1000}{OT1}
\setfont\smallersc\scshape{10}{800}{OT1}
\setfont\smallerttsl\ttslshape{10}{800}{OT1TT}
\font\smalleri=cmmi8
\font\smallersy=cmsy8
\def\smallerecsiz{0800}

```

% Fonts for title page (20.4pt):

```

\def\titlenominalsize{20pt}
\setfont\titlrm\rmshape{12}{\magstep3}{OT1}
\setfont\titleit\itshape{10}{\magstep4}{OT1IT}
\setfont\titlesl\slshape{10}{\magstep4}{OT1}
\setfont\titlett\ttshape{12}{\magstep3}{OT1TT}
\setfont\titlettsl\ttslshape{10}{\magstep4}{OT1TT}
\setfont\titlesf\sfshape{17}{\magstep1}{OT1}
\let\titlebf=\titlrm
\setfont\titlesc\scshape{10}{\magstep4}{OT1}
\font\titlei=cmmi12 scaled \magstep3
\font\titlesy=cmsy10 scaled \magstep4
\def\titleecsiz{2074}

```

% Chapter fonts (14.4pt).

```

\def\chapnominalsize{14pt}
\setfont\chaprm\rmshape{12}{\magstep1}{OT1}
\setfont\chapit\itshape{10}{\magstep2}{OT1IT}
\setfont\chapsl\slshape{10}{\magstep2}{OT1}
\setfont\chaptt\ttshape{12}{\magstep1}{OT1TT}
\setfont\chapttsl\ttslshape{10}{\magstep2}{OT1TT}
\setfont\chapsf\sfshape{12}{\magstep1}{OT1}
\let\chapbf\chaprm
\setfont\chapsc\scshape{10}{\magstep2}{OT1}
\font\chapi=cmmi12 scaled \magstep1

```

```

\font\chapsy=cmsy10 scaled \magstep2
\def\chapecsize{1440}

% Section fonts (12pt).
\def\secnominalsize{12pt}
\setfont\secrm\rmbshape{12}{1000}{OT1}
\setfont\secit\itbshape{10}{\magstep1}{OT1IT}
\setfont\secl\slbshape{10}{\magstep1}{OT1}
\setfont\sectt\ttbshape{12}{1000}{OT1TT}
\setfont\sectt\tslshape{10}{\magstep1}{OT1TT}
\setfont\secsf\sfbshape{12}{1000}{OT1}
\let\secbf\secrm
\setfont\secsc\scbshape{10}{\magstep1}{OT1}
\font\seci=cmmi12
\font\secsy=cmsy10 scaled \magstep1
\def\sececsz{1200}

% Subsection fonts (10pt).
\def\ssecnominalsize{10pt}
\setfont\ssecrm\rmbshape{10}{1000}{OT1}
\setfont\ssecit\itbshape{10}{1000}{OT1IT}
\setfont\ssecl\slbshape{10}{1000}{OT1}
\setfont\ssectt\ttbshape{10}{1000}{OT1TT}
\setfont\ssectt\tslshape{10}{1000}{OT1TT}
\setfont\ssecsf\sfbshape{10}{1000}{OT1}
\let\ssecbf\ssecrm
\setfont\ssecsc\scbshape{10}{1000}{OT1}
\font\sseci=cmmi10
\font\ssecsy=cmsy10
\def\ssececsz{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\sfbshape{9}{1000}{OT1}
\setfont\reducedsc\scshape{10}{900}{OT1}
\setfont\reducedttsl\tslshape{10}{900}{OT1TT}
\font\reducedi=cmmi9
\font\reducedsy=cmsy9
\def\reducedecsz{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, \definertextfontsize

% We provide the user-level command
% @fonttextsize 10
% (or 11) to redefine the text font size. pt is assumed.
%
\def\xiword{11}
\def\xword{10}
\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 \definertextfontsize
\else \ifx\textsizearg\xiword \definertextfontsize
\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=\tenl \textfont\bfam=\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 \size (one size lower)

```

```

% and \llsize (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\tenzl=\textsl
\let\tenbf=\textbf \let\tentt=\texttt \let\smallcaps=\textsc
\let\tenzf=\textsf \let\teni=\texti \let\tenzy=\textsy
\let\tenttll=\textttll}
\def\curfontsize{text}%
\def\lsize{reduced}\def\llsize{smaller}%
\resetmathfonts \setleading{\textleading}}
\def\titlefonts{%
\let\tenrm=\titlrm \let\tenit=\titleit \let\tenzl=\titlesl
\let\tenbf=\titlebf \let\tentt=\titlett \let\smallcaps=\titlesc
\let\tenzf=\titlesf \let\teni=\titlei \let\tenzy=\titlesy
\let\tenttll=\titlettll}
\def\curfontsize{title}%
\def\lsize{chap}\def\llsize{subsec}%
\resetmathfonts \setleading{27pt}}
\def\titlefont#1{{\titlefonts\rmisbold #1}}
\def\chapfonts{%
\let\tenrm=\chaprms \let\tenit=\chapit \let\tenzl=\chapsl
\let\tenbf=\chapbf \let\tentt=\chaptt \let\smallcaps=\chapsc
\let\tenzf=\chapsf \let\teni=\chapi \let\tenzy=\chapsy
\let\tenttll=\chapttll}
\def\curfontsize{chap}%
\def\lsize{sec}\def\llsize{text}%
\resetmathfonts \setleading{19pt}}
\def\secfonts{%
\let\tenrm=\secrm \let\tenit=\secit \let\tenzl=\secsl
\let\tenbf=\secbf \let\tentt=\sectt \let\smallcaps=\secsc
\let\tenzf=\secsf \let\teni=\seci \let\tenzy=\secsy
\let\tenttll=\secttll}
\def\curfontsize{sec}%
\def\lsize{subsec}\def\llsize{reduced}%
\resetmathfonts \setleading{16pt}}
\def\subsecfonts{%
\let\tenrm=\ssecrm \let\tenit=\ssecit \let\tenzl=\ssecsl
\let\tenbf=\ssecbf \let\tentt=\ssectt \let\smallcaps=\sseccsc
\let\tenzf=\ssecsf \let\teni=\sseci \let\tenzy=\ssecsy
\let\tenttll=\ssecttll}
\def\curfontsize{ssec}%
\def\lsize{text}\def\llsize{small}%
\resetmathfonts \setleading{15pt}}
\let\subsubsecfonts = \subsecfonts
\def\reducedfonts{%

```



```

\let\tenrm=\reducedrm \let\tenit=\reducedit \let\tensl=\reducedsl
\let\tenbf=\reducedbf \let\tentt=\reducedtt \let\reducedcaps=\reducedsc
\let\tenssf=\reducedsf \let\teni=\reducedi \let\teny=\reducedsy
\let\tenttsl=\reducedttsl
\def\curfontsize{reduced}%
\def\lsize{small}\def\llsize{smaller}%
\resetmathfonts \setleading{10.5pt}
\def\smallfonts{%
\let\tenrm=\smallrm \let\tenit=\smallit \let\tensl=\smallsl
\let\tenbf=\smallbf \let\tentt=\smalltt \let\smallcaps=\smallsc
\let\tenssf=\smallsf \let\teni=\smalli \let\teny=\smallsy
\let\tenttsl=\smallttsl
\def\curfontsize{small}%
\def\lsize{smaller}\def\llsize{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\tenssf=\smallersf \let\teni=\smalleri \let\teny=\smallersy
\let\tenttsl=\smallerttsl
\def\curfontsize{smaller}%
\def\lsize{smaller}\def\llsize{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{\$\angle\$}
\def\angleright{\$\rangle\$}

% Set the fonts to use with the @small... environments.
\let\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.
%
\definetextfontsizeixi

\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
}

\let\markupstylesetup\empty

\def\defmarkupstylesetup#1{%
  \expandafter\def\expandafter\markupstylesetup
  \expandafter{\markupstylesetup #1}%
  \def#1%

```

```

}

% Markup style setup for left and right quotes.
\defmarkupstylesetup\markupsetuplq{%
\expandafter\let\expandafter \temp
\csname markupsetuplq\currentmarkupstyle\endcsname
\ifx\temp\relax \markupsetuplqdefault \else \temp \fi
}

\defmarkupstylesetup\markupsetuprq{%
\expandafter\let\expandafter \temp
\csname markupsetuprq\currentmarkupstyle\endcsname
\ifx\temp\relax \markupsetuprqdefault \else \temp \fi
}

{
\catcode`\'= \active
\catcode`\`= \active

\gdef\markupsetuplqdefault{\let\lq}
\gdef\markupsetuprqdefault{\let\rq}

\gdef\markupsetcodequoteleft{\let\codequoteleft}
\gdef\markupsetcodequoteright{\let\codequoteright}
}

\let\markupsetuplqcode \markupsetcodequoteleft
\let\markupsetuprqcode \markupsetcodequoteright
%
\let\markupsetuplqexample \markupsetcodequoteleft
\let\markupsetuprqexample \markupsetcodequoteright
%
\let\markupsetuplqkbd \markupsetcodequoteleft
\let\markupsetuprqkbd \markupsetcodequoteright
%
\let\markupsetuplqsamp \markupsetcodequoteleft
\let\markupsetuprqsamp \markupsetcodequoteright
%
\let\markupsetuplqverb \markupsetcodequoteleft
\let\markupsetuprqverb \markupsetcodequoteright
%
\let\markupsetuplqverbatim \markupsetcodequoteleft
\let\markupsetuprqverbatim \markupsetcodequoteright

% 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 disables Spanish ligatures ?` and !` of \tt font.
\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
}
%
\parseargdef\codequotebacktick{%
\def\temp{#1}%
\ifx\temp\onword
\expandafter\let\csname SETtxicodequotebacktick\endcsname
= t%
\else\ifx\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{%
  \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
% ttsl 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

% @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 =\@m \sfcode\commaChar =\@m
  \def\endofsentencespacefactor{1000}% for @. and friends
}
\def\plainnonfrenchspacing{%
  \sfcode`.3000\sfcode`?3000\sfcode`!3000
  \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\close{#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\close#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 (\close 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
}
}

\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\ifx\txiarg\keywordfalse
  \allowcodebreaksfalse
\else
  \errhelp = \EMsimple

```



```

\errmessage{Unknown @allowcodebreaks option `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 \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.
\def\urefbreak{\begingroup \urefcatcodes \dourefbreak}
\let\uref=\urefbreak
\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}%
\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\ (\urefcode{#1})% DVI: 2nd arg given, show both it and url
\fi
\else
\urefcode{#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&{\normalamp}
\global\def.{\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{\urefprebreak \hskip0pt plus.13em }

```

```

\def\urefpoststretch{\urefpostbreak \hskip0pt plus.1em }
%
\def\urefcodeamp{\urefprestretch \&\urefpoststretch}
\def\urefcodeedot{\urefprestretch .\urefpoststretch}
\def\urefcodehash{\urefprestretch \#\urefpoststretch}
\def\urefcodequest{\urefprestretch ?\urefpoststretch}
\def\urefcodeslash{\futurelet\next\urefcodefinish}
{
\catcode`\>=\active
\global\def\urefcodefinish{%
\urefprestretch \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.
%
\let\url=\uref

% rms does not like angle brackets --karl, 17may97.
% So now @email is just like @uref, unless we are pdf.
%
%\def\email#1{\angleleft{\tt #1}\angleright}

```

```

\ifpdf
\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 tsl only inside of @example and friends),
% or `code' (@kbd uses normal tty font always).
\parseargdef\kbdinputstyle{%
\def\txiarg{#1}%
\ifx\txiarg\worddistinct
\gdef\kbdexamplefont{\tsl}\gdef\kbdfont{\tsl}%
\else\ifx\txiarg\wordexample
\gdef\kbdexamplefont{\tsl}\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\kbds\look??\par}}

\def\xkey{\key}
\def\kbds#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\textfont2=\keysy \leavevmode\hbox{%
% \raise0.4pt\hbox{\angleleft}\kern-.08em\top{%
% \vbox{\hrule\kern-0.4pt
% \hbox{\raise0.4pt\hbox{\vphantom{\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.
%
\def\key#1{{\setupmarkupstyle{key}%
\nohyphenation
\ifmonospace\else\tt\fi
#1}\null}

% @clicksequence{File @click{ } Open ...}
\def\clicksequence#1{\begingroup #1\endgroup}

% @clickstyle @arrow (by default)
\parseargdef\clickstyle{\def\click{#1}}
\def\click{\arrow}

% Typeset a dimension, e.g., `in' or `pt'. The only reason for the
% argument is to make the input look right: @dmn{pt} instead of @dmn{}pt.
%
\def\dmn#1{\thinspace #1}

% @l was never documented to mean ``switch to the Lisp font'',
% and it is not used as such in any manual I can find. We need it for
% Polish suppressed-l. --karl, 22sep96.
%\def\l#1{{\li #1}\null}

% @acronym for "FBI", "NATO", and the like.
% We print this one point size smaller, since it's intended for
% all-uppercase.
%
\def\acronym#1{\doacronym #1,,\finish}
\def\doacronym#1,#2,#3\finish{%
{\selectfonts\lsize #1}%
\def\temp{#2}%
\ifx\temp\empty \else
\space ({\unsepspaces \ignorespaces \temp \unskip})%
\fi
\null % reset \spacefactor=1000

```

```

}

% @abbr for "Comput. J." and the like.
% No font change, but don't do end-of-sentence spacing.
%
\def\abbr#1{\doabbr #1,,\finish}
\def\doabbr#1,#2,#3\finish{%
  {\plainfrenchspacing #1}%
\def\temp{#2}%
\ifx\temp\empty \else
  \space ({\unsepspaces \ignorespaces \temp \unskip})%
\fi
\null % reset \spacefactor=1000
}

% @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{\ifnum\fam=\ttfam \mathchar"075C \else\backslash \fi}
%
\def\math{%
\text
\mathunderscore
\let\ = \mathbackslash
\mathactive
% make the texinfo accent commands work in math mode
\let"=\ddot
\let'=\acute
\let\=\bar

```

```

\let^=\hat
\let\`=\grave
\let\u=\breve
\let\v=\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).
%
{
\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\ctrl #1{{\tt \rawbackslash \hat}#1}

% @inlinfmt{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{tex}
%
\long\def\inlinfmt#1{\doinlinfmt #1,\finish}
\long\def\doinlinfmt#1,#2,\finish{%
\def\inlinfmtname{#1}%
\ifx\inlinfmtname\outfmtnametex \ignorespaces #2\fi
}
% For raw, must switch into @tex before parsing the argument, to avoid
% setting catcodes prematurely. Doing it this way means that, for
% example, @inlineraw{html, foo{bar}} gets a parse error instead of being
% ignored. But this isn't important because if people want a literal
% *right* brace they would have to use a command anyway, so they may as

```

```

% well use a command to get a left brace too. We could re-use the
% delimiter character idea from \verb, but it seems like overkill.
%
\long\def\inlineraw{\tex \doinlineraw}
\long\def\doinlineraw#1{\doinlinerawtwo #1,\finish}
\def\doinlinerawtwo#1,#2,\finish{%
\def\inlinerawname{#1}%
\ifx\inlinerawname\outfmtname\ignorespaces #2\fi
\endgroup % close group opened by \tex.
}

\message{glyphs,}
% and logos.

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

% @{ @} @lbracechar{ } @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\mylbrace{{\ifmonospace\else\ecfont\fi \char123}}
\def\myrbrace{{\ifmonospace\else\ecfont\fi \char125}}
\let\={\mylbrace \let\lbracechar=\{
\let\}=\myrbrace \let\rbracechar=}
\begingroup
% Definitions to produce \{ and \} commands for indices,
% and @{ and @} for the aux/toc files.
\catcode`\{ = \other \catcode`\} = \other
\catcode`\[ = 1 \catcode`\] = 2
\catcode`\! = 0 \catcode`\ = \other
!gdef!lbracecmd[\{]%
!gdef!rbracecmd[\}%
!gdef!lbraceatcmd[@{]%
!gdef!rbraceatcmd[@}%
!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{\selectfonts\lllsize \underbar{a} }}
\def\ordm{\leavevmode\raise1ex\hbox{\selectfonts\lllsize \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 LaTeX.
% 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
}}%
\vss
\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}

% @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
}

% @point{ }, @result{ }, @expansion{ }, @print{ }, @equiv{ }.
%
% Since these characters are used in examples, they should be an even number of
% \tt widths. Each \tt character is 1em, so two makes it 1em.
%
\def\point{${\star$}
\def\arrow{\leavevmode\raise.05ex\hbox to 1em{\hfil$\rightarrow$\hfil}}
\def\result{\leavevmode\raise.05ex\hbox to 1em{\hfil$\Rrightarrow$\hfil}}
\def\expansion{\leavevmode\hbox to 1em{\hfil$\mapsto$\hfil}}
\def\print{\leavevmode\lower.1ex\hbox to 1em{\hfil$\dashv$\hfil}}
\def\equiv{\leavevmode\hbox to 1em{\hfil$\ptexequiv$\hfil}}

```

```

% 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
\hspace = \dimen0 \advance\hspace by -5.8pt % Space to left+right.
\advance\hspace by -2\dimen2 % Rules.
\vbox{%
\hrule height\dimen2
\hbox{\vrule width\dimen2 \kern3pt % Space to left of text.
\top{\kern2.4pt \box0 \kern2.4pt}% Space above/below.
\kern3pt\vrule 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
% feybr - bold
% feybo - bold 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\eurossize{\csname\curfontsize nominalsized\endcsname}%
%
\ifx\curfontstyle\bfstyle
% bold:
\font\thiseurofont = \ifusingit{feybo10}{feybr10} at \eurossize
\else
% regular:
\font\thiseurofont = \ifusingit{feymo10}{feymr10} at \eurossize
\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
\else
\ecfont \setbox0=\hbox{#1}%
\ifdim\ht0=1ex\accent"0C #1%
\else\oalign{\unhbox0\cr\hidewidth\char"0C \hidewidth}%
\fi
\fi\fi\fi\fi
}%
}
\def\Aogonek{ {\ecfont \char"81} }\def\macrocharA{ A }
\def\alogonek{ {\ecfont \char"A1} }\def\macrochara{ a }
\def\Eogonek{ {\ecfont \char"86} }\def\macrocharE{ E }
\def\elogonek{ {\ecfont \char"A6} }\def\macrochare{ e }
%
% Use the ec* fonts (cm-super in outline format) for non-CM glyphs.
\def\ecfont{ %
% We can't distinguish serif/sans and italic/slanted, but this
% is used for crude hacks anyway (like adding French and German
% quotes to documents typeset with CM, where we lose kerning), so
% hopefully nobody will notice/care.
\edef\ecsize{ \csname\curfontsize\ecsize\endcsname } %
\edef\nominalsize{ \csname\curfontsize\nominalsize\endcsname } %
\ifmonospace
% typewriter:
\font\thisecfont = ectt\ecsize \space at \nominalsize
\else
\ifx\curfontstyle\bfstylename
% bold:
\font\thisecfont = ecb\ifusingit{i}{x}\ecsize \space at \nominalsize
\else
% regular:
\font\thisecfont = ec\ifusingit{ti}{rm}\ecsize \space at \nominalsize
\fi
\fi
\thisecfont
}

```

```

% @registered symbol - R in a circle. The font for the R should really
% be smaller yet, but lllsize is the best we can do for now.
% Adapted from the plain.tex definition of \copyright.
%
\def\registered symbol{%
  ${{\oalign{\hfil\raise.07ex\hbox{\select fonts\lllsize R}%
    \hfil\cr\Orb}}}%
  }$%
}

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

% 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{\math hex box 20D}
\fi

% Quotes.
\char def\quotedbl left="5C
\char def\quotedbl right="\"
\char def\quote left="`
\char def\quote right="\'

\message{page headings,}

\new skip\title page top glue \title page top glue = 1.5in
\new skip\title page bottom glue \title page bottom glue = 2pc

% First the title page. Must do @set title before @title page.
\new if\if seen author
\new if\if finished title page

% Do an implicit @contents or @short contents after @end title page if the
% user says @set contents after title page or @set short contents after title page.
%
\new if\if set contents after title page
\let\set contents after title page = \set contents after title page true
\new if\if set short contents after title page
\let\set short contents after title page = \set short contents after title page true

\parse arg def\short title page{%

```

```

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

\envdef\titlename{ %
% 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\titlenametopglue
% 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
%
% 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 \rmisbold. \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
  \ptextraggedright
}

% Macros to be used within @titlepage:

\let\subtitlrm=\tenrm
\def\subtitfont{\subtitlrm \normalbaselineskip = 13pt \normalbaselines}

\parseargdef\title{%
  \checkenv\titlepage
  \vbox{\titlefont \raggedtitlesettings #1\par}%
  % print a rule at the page bottom also.
  \finishedtitlepagefalse
  \vskip4pt \hrule height 4pt width \hsize \vskip4pt
}

\parseargdef\subtitle{%
  \checkenv\titlepage
  {\subtitfont \rightline{#1}}%
}

% @author should come last, but may come many times.
% It can also be used inside @quotation.
%
```



```

\parseargdef\author{ %
\def\temp{\quotation}%
\ifx\thisenv\temp
\def\quotationauthor{#1}% printed in \Equotation.
\else
\checkenv\titlepage
\ifseenauthor\else \vskip 0pt plus 1filll \seenauthortrue \fi
{\secfonts\rmisbold \leftline{#1}}%
\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\oddfootline={\rlap{\centerline{#2}}\line{#1\hfil#3}} }

\parseargdef\everyheading{\oddheadingxxx{#1}\evenheadingxxx{#1}}%

```

```

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

\def\evenheadingmarks{\headingmarks{even}{heading}}
\def\oddheadingmarks{\headingmarks{odd}{heading}}
\def\evenfootingmarks{\headingmarks{even}{footing}}
\def\oddfootingmarks{\headingmarks{odd}{footing}}
\def\everyheadingmarks#1 {\headingmarks{even}{heading}{#1}
\headingmarks{odd}{heading}{#1}}
\def\everyfootingmarks#1 {\headingmarks{even}{footing}{#1}
\headingmarks{odd}{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}%
}

```

```

\def\HEADINGSoff{\globaldefs=1 \headingsoff} % global setting
\HEADINGSoff % it's the default

```

```

% 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 = \chapoddpag
}
\let\contentsalignmacro = \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}}
\global\oddheadline={\line{\thischapter\hfil\folio}}
\global\let\contentsalignmacro = \chappager
}
\def\HEADINGSon{\HEADINGSdouble}

```

```

\def\HEADINGSafter{\let\HEADINGSshook=\HEADINGSdoublex}
\let\HEADINGSdoubleafter=\HEADINGSafter
\def\HEADINGSdoublex{%

```

```

\global\evenfootline={\hfil}
\global\oddfootline={\hfil}
\global\evenheadline={\line{\folio\hfil\thistitle}}
\global\oddheadline={\line{\thischapter\hfil\folio}}
\global\let\contentsalignmacro = \chapoddpager
}

\def\HEADINGSsingleafter{\let\HEADINGSshook=\HEADINGSsingle}
\def\HEADINGSsingle{\%
\global\evenfootline={\hfil}
\global\oddfootline={\hfil}
\global\evenheadline={\line{\thischapter\hfil\folio}}
\global\oddheadline={\line{\thischapter\hfil\folio}}
\global\let\contentsalignmacro = \chappager
}

% 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).

% default indentation of table text
\newdimen\tableindent \tableindent=.8in
% default indentation of @itemize and @enumerate text
\newdimen\itemindent \itemindent=.3in
% margin between end of table item and start of table text.
\newdimen\itemmargin \itemmargin=.1in

% used internally for \itemindent minus \itemmargin

```

```

\newdimen\itemmax

% Note @table, @ftable, and @vtable define @item, @itemx, etc., with
% these defs.
% They also define \itemindex
% to index the item name in whatever manner is desired (perhaps none).

\newif\ifitemxneedsnegativevskip

\def\itemxpar{\par\ifitemxneedsnegativevskip\nobreak\vskip-\parskip\nobreak\fi}

\def\internalBitem{\smallbreak \parsearg\itemzzz}
\def\internalBitemx{\itemxpar \parsearg\itemzzz}

\def\itemzzz #1{\begingroup %
\advance\hsize by -\rightskip
\advance\hsize by -\tableindent
\setbox0=\hbox{\itemindicate{#1}}%
\itemindex{#1}%
\nobreak % This prevents a break before @itemx.
%
% If the item text does not fit in the space we have, put it on a line
% by itself, and do not allow a page break either before or after that
% line. We do not start a paragraph here because then if the next
% command is, e.g., @kindex, the whatsit would get put into the
% horizontal list on a line by itself, resulting in extra blank space.
\ifdim \wd0>\itemmax
%
% Make this a paragraph so we get the \parskip glue and wrapping,
% but leave it ragged-right.
\begingroup
\advance\leftskip by-\tableindent
\advance\hsize by\tableindent
\advance\rightskip by0pt plus1fil\relax
\leavevmode\unhbox0\par
\endgroup
%
% We're going to be starting a paragraph, but we don't want the
% \parskip glue -- logically it's part of the @item we just started.
\nobreak \vskip-\parskip
%
% Stop a page break at the \parskip glue coming up. However, if
% what follows is an environment such as @example, there will be no
% \parskip glue; then the negative vskip we just inserted would
% cause the example and the item to crash together. So we use this
% bizarre value of 10001 as a signal to \aboveenvbreak to insert
% \parskip glue after all. Section titles are handled this way also.
%

```

```

\penalty 10001
\endgroup
\itemxneedsnegativevskipfalse
\else
% The item text fits into the space. Start a paragraph, so that the
% following text (if any) will end up on the same line.
\noindent
% Do this with kerns and \unhbox so that if there is a footnote in
% the item text, it can migrate to the main vertical list and
% eventually be printed.
\nobreak\kern-\tableindent
\dimen0 = \itemmax \advance\dimen0 by \itemmargin \advance\dimen0 by -\wd0
\unhbox0
\nobreak\kern\dimen0
\endgroup
\itemxneedsnegativevskiptrue
\fi
}

```

```

\def\item{\errmessage{ @item while not in a list environment }}
\def\itemx{\errmessage{ @itemx while not in a list environment }}

```

```

% @table, @ftable, @vtable.

```

```

\envdef\table{%

```

```

\let\itemindex\gobble

```

```

\tablecheck{table}%

```

```

}

```

```

\envdef\ftable{%

```

```

\def\itemindex ##1{\doind {fn}{\code{##1}}}%

```

```

\tablecheck{ftable}%

```

```

}

```

```

\envdef\vtable{%

```

```

\def\itemindex ##1{\doind {vr}{\code{##1}}}%

```

```

\tablecheck{vtable}%

```

```

}

```

```

\def\tablecheck#1{%

```

```

\ifnum \the\catcode\^^M=\active

```

```

\endgroup

```

```

\errmessage{This command won't work in this context; perhaps the problem is
that we are \inenvironment\thisenv}%

```

```

\def\next{\doignore{#1}}%

```

```

\else

```

```

\let\next\tablex

```

```

\fi

```

```

\next

```

```

}

```

```

\def\tablex#1{%

```

```

\def\itemindicate{#1}%

```

```

\parsearg\tabley
}
\def\tabley#1{%
{%
\makevalueexpandable
\edef\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

% 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.
%
\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.
\flusher
}

% \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 \lcode is nonzero.
% An ``uppercase letter" is one whose \lcode 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\lcode\expandafter`\thearg=0\relax
\numericenumerate % a number (we hope)
\else
% It's a letter.
\ifnum\lcode\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}%
}

% 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.
% Opt 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
      \global\setpercenttrue
    \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\endcsname{\the\wd0}%
        \fi
      \fi
    \ifx\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}%
    \fi
  \fi
}

```

```

\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{\b}% for people to use in the template row; not changeable
\def\headitem{%
\checkenv\multitable
\crr
\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{%
\vskip\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 \crr aka
% \endtemplate) expanding \doitemize.
\def\item{\crr}%
%
\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.
  \halign\bgroup &%
  \global\advance\colcount by 1
  \multistrut
  \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 user has 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
}
\def\Emultitable{%
\crr
\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,}

```

```

% @iftex, @ifnotdocbook, @ifnohtml, @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{ifnohtml}
\makecond{ifnotinfo}
\makecond{ifnotplaintext}
\makecond{ifnotxml}

```

```

% Ignore @ignore, @ifhtml, @ifinfo, and the like.

```

```

%
\def\direntry{\doignore{direntry}}
\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\ifxml{\doignore{ifxml}}
\def\ignore{\doignore{ignore}}
\def\menu{\doignore{menu}}
\def\xml{\doignore{xml}}

```

```

% 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 \doignoretext wants.
\spaceisspace
%
% Count number of #1's that we've seen.
\doignorecount = 0
%
% Swallow text until we reach the matching `@end #1'.
\doignore{#1}%
}

{ \catcode`_=11 % We want to use \_STOP_ which cannot appear in texinfo source.
\obeylines %
%
\gdef\doignore#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@#1##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\doignoretextzz#1{%
\ifnum\doignorecount = 0 % 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^^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.
%
\parseargdef\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.
%
\parseargdef\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 \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
}
\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 be 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
}
\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

% @definfoenclose.
\let\definfoenclose=\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{% % Define @#1index
\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.
%
% @syncodeindex 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\csname donesynindex#2\endcsname = 1
  \fi
  % redefine \fooindfile:
  \expandafter\let\expandafter\temp\expandafter=\csname#3indfile\endcsname
  \expandafter\let\csname#2indfile\endcsname=\temp
  % redefine \foindex:
  \expandafter\xdef\csname#2index\endcsname{\noexpand#1{#3}}%
}

% Define \doindex, the driver for all \foindex macros.
% Argument #1 is generated by the calling \foindex 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 \tex is in effect and \{ is a \delimiter again.
  % We can't use \lbracecmd and \rbracecmd 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.
  %
  % 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\@{\@ \@}%
\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}}%
\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
\definedummyword\ss
\definedummyword\th
%
% Although these internal commands shouldn't show up, sometimes they do.
\definedummyword\bf
\definedummyword\gtr
\definedummyword\hat
\definedummyword\less
\definedummyword\sf
\definedummyword\sl
\definedummyword\tclose
\definedummyword\tt
%
\definedummyword\LaTeX
\definedummyword\TeX
%
% Assorted special characters.
\definedummyword\arrow
\definedummyword\bullet
\definedummyword\comma
\definedummyword\copyright
\definedummyword\registeredsymbol
\definedummyword\dots
\definedummyword\enddots
\definedummyword\entrybreak
\definedummyword\equiv
\definedummyword\error
\definedummyword\euro
\definedummyword\expansion
\definedummyword\geq
\definedummyword\guillemetleft
\definedummyword\guillemetright
\definedummyword\guilsinglleft
\definedummyword\guilsinglright
\definedummyword\lbracechar

```

```

\definedummyword\leq
\definedummyword\minus
\definedummyword\ogonek
\definedummyword\pounds
\definedummyword\point
\definedummyword\print
\definedummyword\quotedblbase
\definedummyword\quotedblleft
\definedummyword\quotedblright
\definedummyword\quoteleft
\definedummyword\quoteright
\definedummyword\quotesinglbase
\definedummyword\rbracechar
\definedummyword\result
\definedummyword\textdegree
%
% 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\.%
\definedummyletter\/%
\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\cite
\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
%
\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\lbracechar{|a}%
%
\def}{|b}%
\def\rbracechar{|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\l{l}%
\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 SETxindex\quoteignore\endcsname\relax
\else \index\quoteignore \fi
%
% 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
\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 \foindexes.
% #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.
\def\thirdarg{#3}%
\ifx\thirdarg\empty \else
\toks0 = \expandafter{\the\toks0 \space #3}%
\fi
%
\edef\writeto{\csname#1indfile\endcsname}%
%
\safewhatsit\dosubindwrite
}%
\fi
}

```

```

% Write the entry in \toks0 to the index file:
%
\def\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
  \xdef\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
%
#1%
%
\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
  % \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.
% Change them to control the appearance of the index.

\def\initial#1{ { %
  % Some minor font changes for the special characters.
  \let\tentt=\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
\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
%
% A bit of stretch before each entry for the benefit of balancing
% columns.
\vskip 0pt plus 1pt
%
% 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.
  \setbox\boxA = \hbox{#1}%
  \ifdim\wd\boxA = 0pt
  \ %
\else
  %
  % If we must, put the page number on a line of its own, and fill out
  % this line with blank space. (The \hfil is overwhelmed with the
  % fill leaders glue in \indexdotfill if the page number does fit.)

```

```

\hfil\penalty50
\null\nobreak\indexdotfill % Have leaders before the page number.
%
% The `\' here is removed by the implicit \unskip that TeX does as
% part of (the primitive) \par. Without it, a spurious underfull
% \hbox ensues.
\ifpdf
\pdfgettoks#1.%
\the\toksA
\else
\#1%
\fi
\fi
\par
\endgroup
}

% Like plain.tex's \dotfill, except uses up at least 1 em.
\def\indexdotfill{\cleaders
\hbox{\$ \mathsurround=0pt \mkern1.5mu.\mkern1.5mu$}\hskip 1em plus 1fill}

\def\primary #1{\line{#1}\hfil}

\newskip\secondaryindent \secondaryindent=0.5cm
\def\secondary#1#2{ { %
\parfillskip=0in
\parskip=0in
\hangindent=1in
\hangafter=1
\noindent\hskip\secondaryindent\hbox{#1}\indexdotfill
\ifpdf
\pdfgettoks#2.\the\toksA % The page number ends the paragraph.
\else
#2
\fi
\par
}}

% Define two-column mode, which we use to typeset indexes.
% Adapted from the TeXbook, page 416, which is to say,
% the manmac.tex format used to print the TeXbook itself.
\catcode\@=11

\newbox\partialpage
\newdimen\doublecolumnhsz

\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 \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{%
\splittopskip=\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@ = \vsize
\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.
\def\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 \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
  \advance\dimen@ by \topskip
  \advance\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.
  {%

```



```

\badness = 10000
\loop
\global\setbox3 = \copy0
\global\setbox1 = \vsplit3 to \dimen@
\ifdim\ht3>\dimen@
\global\advance\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{%
\chapoddpag
\null
\vskip.3\vsiz % move it down on the page a bit
\begingroup
\noindent \titlefont\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
\chapoddpag
\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\thissectionnum{ }
\def\thissectionname{ }

\newcount\abssecllevel % 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\maxsecllevel = 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 = \maxsecllevel
%
% 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:
\abssecllevel=#2
\advance\abssecllevel by \secbase
% Make sure \abssecllevel doesn't fall outside the range:
\ifnum \abssecllevel < 0
\abssecllevel = 0
\else
\ifnum \abssecllevel > 3
\abssecllevel = 3
\fi
\fi
% The heading type:
\def\headtype{#1}%
\if \headtype U%
\ifnum \abssecllevel < \unnlevel
\chardef\unnlevel = \abssecllevel
\fi
\else

```

```

% Check for appendix sections:
\ifnum \absseclevel = 0
  \edef\chapheadtype{\headtype}%
\else
  \if \headtype A\if \chapheadtype N%
\errmessage{@appendix... within a non-appendix chapter}%
  \fi\fi
\fi
% Check for numbered within unnumbered:
\ifnum \absseclevel > \unnlevel
  \def\headtype{U}%
\else
  \chardef\unnlevel = 3
\fi
\fi
% Now print the heading:
\if \headtype U%
  \ifcase\absseclevel
\unnumberedzzz{#3}%
  \or \unnumberedseczzz{#3}%
  \or \unnumberedsubseczzz{#3}%
  \or \unnumberedsubsubseczzz{#3}%
  \fi
\else
  \if \headtype A%
    \ifcase\absseclevel
\appendixzzz{#3}%
    \or \appendixsectionzzz{#3}%
    \or \appendixsubseczzz{#3}%
    \or \appendixsubsubseczzz{#3}%
    \fi
  \else
    \ifcase\absseclevel
\chapterzzz{#3}%
    \or \seczzz{#3}%
    \or \numberedsubseczzz{#3}%
    \or \numberedsubsubseczzz{#3}%
    \fi
  \fi
\fi
\suppressfirstparagraphindent
}

% an interface:
\def\numhead{\genhead N}
\def\apphead{\genhead A}
\def\unnumhead{\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.
\chaptersmacro{#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}%
%
\chaptersmacro{#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}%
\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 appendixsectionzzz:
\outer\parseargdef\appendixsection{\apphead1{#1}}
\def\appendixsectionzzz#1{%
  \global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
  \sectionheading{#1}{sec}{Yappendix}{\appendixletter.\the\secno}%
}
\let\appendixsec\appendixsection

% normally calls unnumberedseczzz:
\outer\parseargdef\unnumberedsec{\unnumhead1{#1}}
\def\unnumberedseczzz#1{%
  \global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
  \sectionheading{#1}{sec}{Ynothing}{\the\unnumberedno.\the\secno}%
}

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

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

% normally calls unnumberedsubseczzz:
\outer\parseargdef\unnumberedsubsec{\unnumhead2{#1}}
\def\unnumberedsubseczzz#1{%
  \global\subsubsecno=0 \global\advance\subsecno by 1
  \sectionheading{#1}{subsec}{Ynothing}%
  {\the\unnumberedno.\the\secno.\the\subsecno}%
}

% Subsubsections.
%

```

```

% normally numberedsubsubseczzz:
\outer\parseargdef\numberedsubsubsec{\numhead3{#1}}
\def\numberedsubsubseczzz#1{%
\global\advance\subsubsecno by 1
\sectionheading{#1}{subsubsec}{Ynumbered}%
    {\the\chapno.\the\secno.\the\subsecno.\the\subsubsecno}%
}

% normally appendixsubsubseczzz:
\outer\parseargdef\appendixsubsubsec{\apphead3{#1}}
\def\appendixsubsubseczzz#1{%
\global\advance\subsubsecno by 1
\sectionheading{#1}{subsubsec}{Yappendix}%
    {\appendixletter.\the\secno.\the\subsecno.\the\subsubsecno}%
}

% normally unnumberedsubsubseczzz:
\outer\parseargdef\unnumberedsubsubsec{\unnumhead3{#1}}
\def\unnumberedsubsubseczzz#1{%
\global\advance\subsubsecno by 1
\sectionheading{#1}{subsubsec}{Ynothing}%
    {\the\unnumberedno.\the\secno.\the\subsecno.\the\subsubsecno}%
}

% These macros control what the section commands do, according
% to what kind of chapter we are in (ordinary, appendix, or unnumbered).
% Define them by default for a numbered chapter.
\let\section = \numberedsec
\let\subsection = \numberedsubsec
\let\subsubsection = \numberedsubsubsec

% Define @majorheading, @heading and @subheading

\def\majorheading{%
    {\advance\chapheadingskip by 10pt \chapbreak }%
    \parsearg\chapheadingzzz
}

\def\chapheading{\chapbreak \parsearg\chapheadingzzz}
\def\chapheadingzzz#1{%
    \vbox{\chapfonts \raggedtitlesettings #1\par}%
    \nobreak\bigskip \nobreak
    \suppressfirstparagraphindent
}

% @heading, @subheading, @subsubheading.
\parseargdef\heading{\sectionheading{#1}{sec}{Yomitfromtoc}{ }
\suppressfirstparagraphindent}

```



```

\parseargdef\subheading{\sectionheading{#1}{subsec}{Yomitfromtoc}}{ }
\suppressfirstparagraphindent}
\parseargdef\subsubheading{\sectionheading{#1}{subsubsec}{Yomitfromtoc}}{ }
\suppressfirstparagraphindent}

```

```

% These macros generate a chapter, section, etc. heading only
% (including whitespace, linebreaking, etc. around it),
% given all the information in convenient, parsed form.

```

```

% Args are the skip and penalty (usually negative)
\def\dobreak#1#2{\par\ifdim\lastskip<#1\removelastskip\penalty#2\vskip#1\fi}

```

```

% Parameter controlling skip before chapter headings (if needed)
\newskip\chapheadingskip

```

```

% Define plain chapter starts, and page on/off switching for it.
\def\chapbreak{\dobreak \chapheadingskip {-4000}}
\def\chappager{\par\vfill\supereject}
% Because \domark is called before \chapoddpager, the filler page will
% get the headings for the next chapter, which is wrong. But we don't
% care -- we just disable all headings on the filler page.

```

```

\def\chapoddpager{%
\chappager
\ifodd\pageno \else
\beginingroup
\headingsoff
\null
\chappager
\endgroup
\fi
}

```

```

\def\setchapternewpage #1 {\csname CHAPPAG#1\endcsname}

```

```

\def\CHAPPAGoff{%
\global\let\contentsalignmacro = \chappager
\global\let\pchapsepmacro=\chapbreak
\global\let\pagealignmacro=\chappager}

```

```

\def\CHAPPAGon{%
\global\let\contentsalignmacro = \chappager
\global\let\pchapsepmacro=\chappager
\global\let\pagealignmacro=\chappager
\global\def\HEADINGSon{\HEADINGSsingle}}

```

```

\def\CHAPPAGodd{%
\global\let\contentsalignmacro = \chapoddpager
\global\let\pchapsepmacro=\chapoddpager}

```

```

\global\let\pagealignmacro=\chapoddpge
\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{ } }%
%
\def\temptype{#2}%
\ifx\temptype\Ynothingkeyword
\gdef\lastchapterdefs{\gdef\thischaptername{#1}\gdef\thischapternum{ }%
\gdef\thischapter{\thischaptername} }%
\else\ifx\temptype\Yomitfromtockeyword
\gdef\lastchapterdefs{\gdef\thischaptername{#1}\gdef\thischapternum{ }%
\gdef\thischapter{ } }%
\else\ifx\temptype\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.
\pchapsepmacro
%
% Now the second mark, after the heading break. No break points
% between here and the heading.
\let\prevchapterdefs=\lastchapterdefs
\let\prevsectiondefs=\lastsectiondefs
\domark
%
{%
\chapfonts \rmisbold
%
% Have to define \lastsection before calling \donoderef, because the
% xref code eventually uses it. On the other hand, it has to be called
% after \pchapsepmacro, 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\totype{unnchap}%
\else\ifx\temptype\Yomitfromtockeyword
\setbox0 = \hbox{ }% contents like unnumbered, but no toc entry
\def\totype{omit}%
\else\ifx\temptype\Yappendixkeyword
\setbox0 = \hbox{\putwordAppendix{ } #3\enspace}%
\def\totype{app}%
\else
\setbox0 = \hbox{#3\enspace}%
\def\totype{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{\totype}{#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
}

% @centerchap -- centered and unnumbered.
\let\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{%
\chapoddpge
\ vbox{\chapfonts \raggedtitlesettings #1\par}%
\nobreak\bigskip\nobreak
}
\def\chfopen #1#2{\chapoddpge {\chapfonts
\ vbox to 3in{\vfil \hbox to\hsize{\hfil #2} \hbox to\hsize{\hfil #1} \vfil}}%
\par\penalty 5000 %
}
\def\centerchfopen #1{%
\chapoddpge
\ 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\subseheadingskip
\def\subseheadingbreak{\dobreak \subseheadingskip{-500}}

% Subsubsection titles.
\def\subsubseheadingskip{\subseheadingskip}
\def\subsubseheadingbreak{\subseheadingbreak}

% Print any size, any type, section title.
%
% #1 is the text, #2 is the section level (sec/subsec/subsubsec), #3 is
% the section type for xrefs (Ynumbered, Ynothing, Yappendix), #4 is the
% section number.
%
\def\seckeyword{sec}
%
\def\sectionheading#1#2#3#4{%
  {%
    \checkenv{ }% should not be in an environment.
    %
    % Switch to the right set of fonts.
    \csname #2fonts\endcsname \rmisbold
    %
    \def\sectionlevel{#2}%
    \def\temptype{#3}%
    %
    % Insert first mark before the heading break (see notes for \domark).
    \let\prevsectiondefs=\lastsectiondefs
    \ifx\temptype\Ynothingkeyword
      \ifx\sectionlevel\seckeyword
        \gdef\lastsectiondefs{\gdef\thissectionname{#1}\gdef\thissectionnum{ }%
          \gdef\thissection{\thissectionname} }%
      \fi
    \else\ifx\temptype\Yomitfromtockeyword
      % Don't redefine \thissection.
    \else\ifx\temptype\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 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\temptype\Ynothingkeyword
  \setbox0 = \hbox{ }%
  \def\toctype{unn}%
  \gdef\lastsection{#1}%
\else\ifx\temptype\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\temptype\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{\toctype\sectionlevel}{#1}{#4}%
%
% Write the node reference (= pdf destination for pdftex).
% 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 \ptextraggedright
\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 \cscname #2headingskip\endcscname
%
% 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
% (\startdefun, \cartouche, \center, 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 \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\writetocentrytype{#1}%
\ifx\writetocentrytype\omitkeyword\else
\iftocfileopened\else
\immediate\openout\tocfile = \jobname.toc
\global\tocfileopenedtrue
\fi
%
\iflinks
{\atdummies
\edef\temp{%
\write\tocfile{ @#1entry{#2}{#3}{\lastnode}{\noexpand\folio} }}%
\temp
}%
\fi
\fi
%
% Tell \shipout to create a pdf destination on each page, if we're
% writing pdf. These are used in the table of contents. We can't
% just write one on every page because the title pages are numbered

```



```

% 1 and 2 (the page numbers aren't printed), and so are the first
% two pages of the document. Thus, we'd have two destinations named
% `1', and two named `2'.
\ifpdf \global\pdfmakepagedesttrue \fi
}

```

```

% 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.
%

```

```

\def\activecatcodes{%
\catcode`\="=\active
\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
\newcount\lastnegativepageno \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
% \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\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=\shortconrm \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\space
\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\shortchaplabe#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\numerabox{\setbox0=\hbox{8}\hbox to \wd0{\hfil}}
\def\partentry#1#2#3#4{\dochapentry{\numerabox\labelpace#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}{\numerabox}{}}%
}

% Chapters, in the main contents.
\def\numchapentry#1#2#3#4{\dochapentry{#2\labelpace#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}\labelpace #1}{\doshortpageno\bgroup#4\egroup}%
}

% Appendices, in the main contents.
% Need the word Appendix, and a fixed-size box.
%
\def\appendibox#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{\appendibox{#2}\labelpace#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\labelpace#1}{#4}}
\let\appsecentry=\numsecentry
\def\unnsecentry#1#2#3#4{\dosecentry{#1}{#4}}

% Subsections.
\def\numsubsecentry#1#2#3#4{\dosubsecentry{#2\labelpace#1}{#4}}
\let\appsubsecentry=\numsubsecentry
\def\unnsubsecentry#1#2#3#4{\dosubsecentry{#1}{#4}}

% And subsections.
\def\numsubsubsecentry#1#2#3#4{\dosubsubsecentry{#2\labelpace#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\dochapentry#1#2{%
  \penalty-300 \vskip1\baselineskip plus.33\baselineskip minus.25\baselineskip
  \begingroup
  \chapentryfonts
  \tocentry{#1}{\dopageno\bgroup#2\egroup}%
  \endgroup
  \nobreak\vskip .25\baselineskip plus.1\baselineskip
}

\def\dosecentry#1#2{\begingroup
  \secentryfonts \leftskip=\tocindent
  \tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}

\def\dosubsecentry#1#2{\begingroup
  \subsecentryfonts \leftskip=2\tocindent
  \tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}

\def\dosubsubsecentry#1#2{\begingroup
  \subsubsecentryfonts \leftskip=3\tocindent
  \tocentry{#1}{\dopageno\bgroup#2\egroup}%
\endgroup}

% We use the same \entry macro as for the index entries.
\let\tocentry = \entry

% Space between chapter (or whatever) number and the title.
\def\labelpace{\hskip 1em \relax}

\def\dopageno#1{{\rm #1}}
\def\doshortpageno#1{{\rm #1}}

\def\chapentryfonts{\secfonts \rm}
\def\secentryfonts{\textfonts}
\def\subsecentryfonts{\textfonts}
\def\subsubsecentryfonts{\textfonts}

```

```

\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 `~= \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\{=\ptexlbrace
\let\+=\tabalign
\let\}=\ptexrbrace
\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
\remove\lastskip
% 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.
\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\normmpskip\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}}
%
\newskip\lskip\newskip\rskip

\envdef\cartouche{%
\ifhmode\par\fi % can't be in the midst of a paragraph.
\startsavinginserts
\lskip=\leftskip \rskip=\rightskip
\leftskip=0pt\rightskip=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=\baselineskip \normmpskip=\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
%
\vbox\bgroup
\baselineskip=0pt\parskip=0pt\lineskip=0pt
\carttop
\hbox\bgroup
\hskip\lskip
\vrule\kern3pt
\vbox\bgroup
\kern3pt

```



```

\hspace=\cartinner
\baselineskip=\normbskip
\lineskip=\normlskip
\parskip=\normpskip
\vskip -\parskip
\comment % For explanation, see the end of def\group.
}
\def\Ecartouche{%
  \ifhmode\par\fi
  \kern3pt
  \egroup
  \kern3pt\vrule
  \hskip\rskip
  \egroup
  \cartbot
\egroup
\checkinserts
}

% 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 = \lispar % 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
  \ifx\nonarrowing\relax
    \advance \leftskip by \lispnarrowing
    \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 %
\expandafter\nonfillindentgobble%
\else%
\leavevmode\nonfillindentbox%
\fi%
}%
\endgroup
\def\nonfillindentgobble#1{\nonfillindent}
\def\nonfillindentbox{\hbox to \nonfillparindent{\hss}}

% If you want all examples etc. small: @set dispenvsize small.
% If you want even small examples the full size: @set dispenvsize nosmall.
% This affects the following displayed environments:
% @example, @display, @format, @lisp
%
\def\smallword{small}
\def\nosmallword{nosmall}
\let\SETdispenvsize\relax
\def\setnormaldispenv{%
\ifx\SETdispenvsize\smallword
% end paragraph for sake of leading, in case document has no blank
% line. This is redundant with what happens in \aboveenvbreak, but
% we need to do it before changing the fonts, and it's inconvenient
% to change the fonts afterward.
\ifnum \lastpenalty=10000 \else \endgraf \fi
\smallexamplefonts \rm
\fi
}
\def\setsmalldispenv{%
\ifx\SETdispenvsize\nosmallword
\else
\ifnum \lastpenalty=10000 \else \endgraf \fi
\smallexamplefonts \rm
\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{%
\makedispenvdef{#1}{#3}%
\makedispenvdef{#2}{#3}%
}
%
% @lisp: indented, narrowed, typewriter font;
% @example: same as @lisp.
%
% @smallexample and @smalllisp: use smaller fonts.
% Originally contributed by Pavel@xerox.
%
\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
}

% @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
}
\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.
\ifx\nonarrowing\relax
\advance\rightskip by \lispnarrowing
\fi
\parsearg\quotationlabel
}

% 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}% because \aboveenvbreak inserts \parskip
  \parindent=0pt
  %
  % @cartouche defines \nonarrowing to inhibit narrowing at next level down.
  \ifx\nonarrowing\relax
    \advance\leftskip by \lispnarrowing
    \exdentamount = \lispnarrowing
  \else
    \let\nonarrowing = \relax
  \fi
}

% Keep a nonzero parskip for the environment, since we're doing normal filling.
%
\def\Eindentedblock{ %
  \par
  {\parskip=0pt \afterenvbreak}%
}
\def\Esmallindentedblock{\Eindentedblock}

% LaTeX-like @verbatim...@end verbatim and @verb{<char>...<char>}
% If we want to allow any <char> as delimiter,

```

```

% we need the curly braces so that makeinfo sees the @verb command, eg:
% `@verbx...x' would look like the '@verbx' command. --janneke@gnu.org
%
% [Knuth]: Donald Ervin Knuth, 1996. The TeXbook.
%
% [Knuth] p.344; only we need to do the other characters Texinfo sets
% active too. Otherwise, they get lost as the first character on a
% verbatim line.
\def\dospecials{%
  \do\ \do\\\do\{\do\}\do\$\do\&%
  \do\#\do\^\do\^^K\do\_ \do\^^A\do\%\do\~%
  \do\<\do\>\do\|\do\@\do+\do\%"%
  % Don't do the quotes -- if we do, @set txcitequoteundirected and
  % @set txcitequotebacktick 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
\begingroup
\catcode`\^^I=active
\gdef\tabeightspaces{\catcode`\^^I=active\def^^I{\ \ \ \ \ \ \ \ \}}
\endgroup
%
\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\bgroup}
%
\begingroup
\catcode\^^I=\active
\gdef\tabexpand{%
\catcode\^^I=\active
\def^^I{\leavevmode\egroup
\dimen\verbbox=\wd\verbbox % the width so far, or since the previous tab
\divide\dimen\verbbox by\tabw
\multiply\dimen\verbbox by\tabw % compute previous multiple of \tabw
\advance\dimen\verbbox by\tabw % advance to next multiple of \tabw
\wd\verbbox=\dimen\verbbox \box\verbbox \starttabbox
}%
}
\endgroup

% start the verbatim environment.
\def\setupverbatim{%
\let\nonarrowing = t%
\nonfillstart
\tt % easiest (and conventionally used) font for verbatim
% The \leavevmode here is for blank lines. Otherwise, we would
% never \starttabbox and the \egroup would end verbatim mode.
\def\par{\leavevmode\egroup\box\verbbox\endgraf}%
\tabexpand
\setupmarkupstyle{verbatim}%
% Respect line breaks,
% print special symbols as themselves, and
% make each space count.
% Must do in this order:
\obeylines \uncatcodespecials \sepspaces
\everypar{\starttabbox}%
}

% 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]
\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 '\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\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\dodefuns#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 \dodefuns
% 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}%
}%
\def#2{\dodefuna#1}%
\def#3%
}

\newif\ifdoingtypefn % doing typed function?
\newif\ifreturntypeownline % 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 @deftypefn, @deftypefun,
% @deftypeop, and @deftypemethod.
%
\parseargdef\deftypefnnewline{%
\def\temp{#1}%
\ifx\temp\onword
\expandafter\let\csname SETtxideftypefnnl\endcsname
= \empty
\else\ifx\temp\offword
\expandafter\let\csname SETtxideftypefnnl\endcsname
= \relax
\else
\errhelp = \EMsimple
\errmessage{Unknown @txideftypefnnl 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}%
\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 {\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}{\defvrheader{\putwordDefvar} }
\makedefun{defopt}{\defvrheader{\putwordDefopt} }
\makedefun{deftypevar}{\deftypevrheader{\putwordDefvar} }
\makedefun{defmethod}{\defoapon\putwordMethodon}
\makedefun{deftypemethod}{\deftypeoapon\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 SETtxideftypefnl\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:
\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
  \advance\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 :).
\df \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:
\hfil\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
%
\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 `-' 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 @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%
\sl\hyphenchar\font=45
}

% 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
\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\amprm#1 {\ampseenttrue{\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
}
\def\infirstlevel#1{%
\ifampseen
\ifnum\parencount=1

```



```

    #1%
    \fi
    \fi
  }
\def\bfafterword#1 {#1 \bf}

\def\opnr{%
\global\advance\parencount by 1
{\parenfont{}}%
\infirstlevel \bfafterword
}
\def\clnr{%
{\parenfont{}}%
\infirstlevel \sl
\global\advance\parencount by -1
}

\newcount\brackcount
\def\lbrb{%
\global\advance\brackcount by 1
{\bf[}%
}
\def\rbrb{%
{\bf]}%
\global\advance\brackcount by -1
}

\def\checkparencounts{%
\ifnum\parencount=0 \else \badparencount \fi
\ifnum\brackcount=0 \else \badbrackcount \fi
}
% these should not use \errmessage; the glibc manual, at least, actually
% has such constructs (when documenting function pointers).
\def\badparencount{%
\message{Warning: unbalanced parentheses in @def...}%
\global\parencount=0
}
\def\badbrackcount{%
\message{Warning: unbalanced square brackets in @def...}%
\global\brackcount=0
}

\message{macros,}
% @macro.

% To do this right we need a feature of e-TeX, \scantokens,
% which we arrange to emulate with a temporary file in ordinary TeX.

```

```

\ifx\TeXversion\thisisundefined
\newwrite\macscribble
\def\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\xeatspaces\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\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 \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{ %
  \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{#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 #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 \
% 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
\ifx\declaredencoding\ascii \else \setnonasciicharscatcodenonglobal\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
\usebodybackslash
}

\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\ => \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\marginbackslash#1{\char`#1 }
```

```
\def\macro{\recursivefalse\parsearg\macroxxx }
```

```
\def\rmacro{\recursive>true\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
```

```
\ifx\eTeXversion\thisisundefined
```

```
\errhelp = \EMsimple
```

```
\errmessage{ You need eTeX to compile a file with macros with more than 256 arguments }
```

```
\fi
```

```
\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 \macrobodytxt
```

```
\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\unmacrodo
  \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\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\arg1{#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 \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\xeatspaces\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
\parsemanyargdef@@#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\next}

\def\parsemanyargdef@@#1,{%
\if#1;\let\next=\relax
\else
\let\next=\parsemanyargdef@@
\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 \parsermacrobody 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 \@ \textatcatcode
\long\def\parsemacrobody#1@end macro%
  {\xdef\temp{\eatcr{#1}}\endgroup\defmacro}%
\long\def\parsermacrobody#1@end rmacro%
  {\xdef\temp{\eatcr{#1}}\endgroup\defmacro}%
\catcode \@ =11\relax

\let\endargs@\relax
\let\nil@\relax
\def\nilm@{\nil@}%
\long\def\nillm@{\nil@}%

% 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
}

```



```

%
\def\getargvals@@{%
\ifx\paramlist\nilm@
% Some sanity check needed here that \argvaluelist is also empty.
\ifx\argvaluelist\nillm@
\else
\errhelp = \EMsimple
\errmessage{Too many arguments in macro `\

```

```

\def\push@#1#2{%
\expandafter\expandafter\expandafter\def
\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@{%
% 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.\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,{%
\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\@tempa\csname macarg.#1\endcsname
\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
\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@{%
\ifx\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
\ifrecursive
\ifcase\paramno
% 0
\expandafter\xdef\csname\the\macname\endcsname{ %
\noexpand\scanmacro{\temp} }%
\or % 1
\expandafter\xdef\csname\the\macname\endcsname{ %
\bgrouple\noexpand\macroargctxt
\noexpand\braceorline
\expandafter\noexpand\csname\the\macname xxx\endcsname }%
\expandafter\xdef\csname\the\macname xxx\endcsname##1{ %
\egrouple\noexpand\scanmacro{\temp} }%
\else
\ifnum\paramno<10\relax % at most 9
\expandafter\xdef\csname\the\macname\endcsname{ %
\bgrouple\noexpand\macroargctxt
\noexpand\csname\the\macname xx\endcsname }%
\expandafter\xdef\csname\the\macname xx\endcsname##1{ %
\expandafter\noexpand\csname\the\macname xxx\endcsname ##1,}%
\expandafter\expandafter
\expandafter\xdef
\expandafter\expandafter
\csname\the\macname xxx\endcsname
\parmlist{\egrouple\noexpand\scanmacro{\temp} }%
\else % 10 or more
\expandafter\xdef\csname\the\macname\endcsname{ %
\noexpand\getargvals@{\the\macname}{\arg1}%
}%
\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
% 0
\expandafter\xdef\csname\the\macname\endcsname{ %
\noexpand\norecurse{\the\macname} %
\noexpand\scanmacro{\temp}\egrouple}%
\or % 1
\expandafter\xdef\csname\the\macname\endcsname{ %
\bgrouple\noexpand\macroargctxt

```

```

\noexpand\braceorline
\expandafter\noexpand\csname\the\macname xxx\endcsname}%
\expandafter\xdef\csname\the\macname xxx\endcsname##1{%
\egroup
\noexpand\norecurse{\the\macname}%
\noexpand\scanmacro{\temp}\egroup}%
\else % at most 9
\ifnum\paramno<10\relax
\expandafter\xdef\csname\the\macname\endcsname{%
\bgroup\noexpand\macroargctxt
\expandafter\noexpand\csname\the\macname xx\endcsname}%
\expandafter\xdef\csname\the\macname xx\endcsname##1{%
\expandafter\noexpand\csname\the\macname xxx\endcsname ##1,}%
\expandafter\expandafter
\expandafter\xdef
\expandafter\expandafter
\csname\the\macname xxx\endcsname
\paramlist{%
\egroup
\noexpand\norecurse{\the\macname}%
\noexpand\scanmacro{\temp}\egroup}%
\else % 10 or more:
\expandafter\xdef\csname\the\macname\endcsname{%
\noexpand\getargvals@{\the\macname}{\arg1}%
}%
\global\expandafter\let\csname mac.\the\macname .body\endcsname\temp
\global\expandafter\let\csname mac.\the\macname .recurse\endcsname\norecurse
\fi
\fi
\fi}

\catcode \@ \textatcatcode\relax

\def\norecurse#1{\bgroup\cslet{#1}{macsave.#1}}

% \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 \parsebrace or \parsearg).
%
\def\braceorline#1{\let\macnamexxx=#1\futurelet\nchar\braceorlinexxx}
\def\braceorlinexxx{%
\ifx\nchar\bgroup\else
\expandafter\parsearg
\fi \macnamexxx}

% @alias.

```

```

% We need some trickery to remove the optional spaces around the equal
% sign. Make them active and then expand them all to nothing.
%
\def\alias{\parseargusing\obeyspaces\aliasxxx}
\def\aliasxxx #1{\aliasyyy#1\relax}
\def\aliasyyy #1=#2\relax{%
  {%
    \expandafter\let\obeyedspace=\empty
    \addtomacrolist{#1}%
    \xdef\next{\global\let\makecsname{#1}=\makecsname{#2}}%
  }%
\next
}

\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.

% @inforef is relatively simple.
\def\inforef #1{\inforefzzz #1,,,**}
\def\inforefzzz #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-refs
\def\donode#1 ,#2\finishnodeparse{\dodonode #1,\finishnodeparse}
\def\dodonode#1,#2\finishnodeparse{\gdef\lastnode{#1}}

\let\nwnode=\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 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
}

% @xrefautosectiontitle 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}%
\ifx\temp\onword
  \expandafter\let\csname SETxref-automatic-section-title\endcsname
  = \empty
\else\ifx\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}%
  \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.
\def\printedrefname{\ignorespaces #1}%
\fi%
\fi
\fi
\fi
%
% Make link in pdf output.
\ifpdf
{\indexnofonts
\turnoffactive
\makevalueexpandable
% This expands tokens, so do it after making catcode changes, so _
% etc. don't get their TeX definitions. This ignores all spaces in
% #4, including (wrongly) those in the middle of the filename.
\getfilename{#4}%
%
% This (wrongly) does not take account of leading or trailing
% spaces in #1, which should be ignored.
\edef\pdfxrefdest{#1}%
\ifx\pdfxrefdest\empty
\def\pdfxrefdest{Top}% no empty targets
\else
\txiescapepdf\pdfxrefdest % escape PDF special chars
\fi
%
\leavevmode
\startlink attr{/Border [0 0 0]}%
\ifnum\filenamelength>0
goto file{\the\filename.pdf} name{\pdfxrefdest}%
\else
goto name{\pdfmkpgn{\pdfxrefdest}}%
\fi
}%
\setcolor{\linkcolor}%
\fi

```

```

%
% Float references are printed completely differently: "Figure 1.2"
% instead of "[somenode], p.3". We distinguish them by the
% LABEL-title being set to a magic string.
{%
% Have to otherify everything special to allow the \csname to
% include an _ in the xref name, etc.
\indexnofonts
\turnoffactive
\expandafter\global\expandafter\let\expandafter\Xthisreftitle
\csname XR#1-title\endcsname
}%
\iffloat\Xthisreftitle
% If the user specified the print name (third arg) to the ref,
% print it instead of our usual "Figure 1.2".
\ifdim\wd\printedrefnamebox = 0pt
\refx{#1-snt}{ }%
\else
\printedrefname
\fi
%
% If the user also gave the printed manual name (fifth arg), append
% "in MANUALNAME".
\ifdim \wd\printedmanualbox > 0pt
\space \putwordin{ } \cite{\printedmanual}%
\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.
%
\ifdim \wd\printedmanualbox > 0pt
% Cross-manual reference with a printed manual name.
%
\crossmanualxref{\cite{\printedmanual\unskip}}%
%
\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}}%
%

```

```

\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}{}}}%
\ifdim \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
\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
}
\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
}

% 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
}%
\ifx\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
%
% 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
%
% 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 \floatlistFLOATYPE,
% 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
% vital for proper filling; pages come out unaligned when you do a
% pagealignmacro call if that space before the closing brace is
% removed. (Generally, numeric constants should always be followed by a
% 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.
\gdef\footnote{%
\let\indent=\ptexindent
\let\noindent=\ptexnoindent
\global\advance\footnoteno by \@ne
\edef\thisfootno{$^\{the\footnoteno\}$}%
%
% 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, 16nov96.
%
\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 extend 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\footins{foo} and
% \insert\footins\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{%
\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\nnewsaveinsX #1{%
\csname newbox\endcsname #1%
\expandafter\def\expandafter\checkinserts\expandafter{\checkinserts
\checksaveins #1}%
}

% initialize:
\let\checkinserts\empty
\nnewsaveins\footins
\nnewsaveins\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
% Do not bother showing banner with epsf.tex v2.7k (available in
% doc/epsf.tex and on ctan).
\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}%
\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
\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
\xdef\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
    \ifx\floattype\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
    \ifx\floatident\empty \else
\appendtomacro\captionline{:}% had ident, so need a colon between
    \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
    %
    % Space below caption.
    \vskip\parskip
  \fi
  %
  % If have an xref label, write the list of floats info. Do this
  % after the caption, to avoid chance of it being a breakpoint.
  \ifx\floatlabel\empty \else
    % Write the text that goes in the lof to the aux file as
    % \floatlabel-lof. Besides \floatident, we include the short
    % caption if specified, else the full caption if specified, else nothing.
    {%
      \atdummies
      %
      % since we read the caption text in the macro world, where ^^M

```

```

% is turned into a normal character, we have to scan it back, so
% we don't write the literal three characters "^^M" into the aux file.
\scanexp{%
\edef\noexpand\gtemp{%
\ifx\thisshortcaption\empty
\thiscaption
\else
\thisshortcaption
\fi
}%
}%
\immediate\write\auxfile{@xrdef{\floatlabel-lof}{\floatident
\ifx\gtemp\empty \else : \gtemp \fi }}%
}%
\fi
\egroup % 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.
\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
\xdef\safefloattype{\floattype}%
}%
%
% \xrdef saves the floats as a \do-list in \floatlistSAFEFLOATTYPE.
\expandafter\ifx\curname floatlist\safefloattype\endcurname \relax
\ifhavexrefs
% if the user said @listoffloats foo but never @float foo.
\message{\linenumber No `safefloattype' floats to list.}%
\fi

```

```

\else
\begingroup
\leftskip=\tocindent % indent these entries like a toc
\let\do=\listoffloatsdo
\csname floatlist\safefloattype\endcsname
\endgroup
\fi
}

% 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{\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
\documentlanguage\tryparagraphwithoutunderscore{#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\documentlanguagestrywithoutunderscore#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
    \asciichardefs
  %
  \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}}
\gdef^^a5{\missingcharmsg{YEN SIGN}}
\gdef^^a6{\missingcharmsg{BROKEN BAR}}
\gdef^^a7{\S}
\gdef^^a8{\'{} }
\gdef^^a9{\copyright}
\gdef^^aa{\ordf}
\gdef^^ab{\guillemetleft}
\gdef^^ac{\$ \not$}

```

```

\gdef^^ad{\-}
\gdef^^ae{\registersymbol}
\gdef^^af{|={} }
%
\gdef^^b0{\textdegree}
\gdef^^b1{\pm$}
\gdef^^b2{\^2$}
\gdef^^b3{\^3$}
\gdef^^b4{\'{} }
\gdef^^b5{\mu$}
\gdef^^b6{\P}
%
\gdef^^b7{\^.$}
\gdef^^b8{\cedilla\ }
\gdef^^b9{\^1$}
\gdef^^ba{\ordm}
%
\gdef^^bb{\guillemetright}
\gdef^^bc{\$1\over4$}
\gdef^^bd{\$1\over2$}
\gdef^^be{\$3\over4$}
\gdef^^bf{\questiondown}
%
\gdef^^c0{\`A}
\gdef^^c1{\'A}
\gdef^^c2{\^A}
\gdef^^c3{\~A}
\gdef^^c4{\"A}
\gdef^^c5{\ringaccent A}
\gdef^^c6{\AE}
\gdef^^c7{\cedilla C}
\gdef^^c8{\`E}
\gdef^^c9{\'E}
\gdef^^ca{\^E}
\gdef^^cb{\"E}
\gdef^^cc{\`I}
\gdef^^cd{\'I}
\gdef^^ce{\^I}
\gdef^^cf{\"I}
%
\gdef^^d0{\DH}
\gdef^^d1{\~N}
\gdef^^d2{\`O}
\gdef^^d3{\'O}
\gdef^^d4{\^O}
\gdef^^d5{\~O}
\gdef^^d6{\"O}
\gdef^^d7{\$times$}

```

```

\gdef^d8{\O}
\gdef^d9{\`U}
\gdef^da{\`U}
\gdef^db{\^U}
\gdef^dc{\`U}
\gdef^dd{\`Y}
\gdef^de{\TH}
\gdef^df{\ss}
%
\gdef^e0{\`a}
\gdef^e1{\`a}
\gdef^e2{\^a}
\gdef^e3{\~a}
\gdef^e4{\`a}
\gdef^e5{\ringaccent a}
\gdef^e6{\ae}
\gdef^e7{\cedilla c}
\gdef^e8{\`e}
\gdef^e9{\`e}
\gdef^ea{\^e}
\gdef^eb{\`e}
\gdef^ec{\`{\dotless i}}
\gdef^ed{\`{\dotless i}}
\gdef^ee{\^{\dotless i}}
\gdef^ef{\`{\dotless i}}
%
\gdef^f0{\dh}
\gdef^f1{\~n}
\gdef^f2{\`o}
\gdef^f3{\`o}
\gdef^f4{\^o}
\gdef^f5{\~o}
\gdef^f6{\`o}
\gdef^f7{\$div$}
\gdef^f8{\o}
\gdef^f9{\`u}
\gdef^fa{\`u}
\gdef^fb{\^u}
\gdef^fc{\`u}
\gdef^fd{\`y}
\gdef^fe{\th}
\gdef^ff{\`y}
}

```

% Latin9 (ISO-8859-15) encoding character definitions.

```
\def\latninechardefs{%
```

% Encoding is almost identical to Latin1.

```
\latonechardefs
```

```

%
\gdef^a4{\euro}
\gdef^a6{\v S}
\gdef^a8{\v s}
\gdef^b4{\v Z}
\gdef^b8{\v z}
\gdef^bc{\OE}
\gdef^bd{\oe}
\gdef^be{"Y}
}

% Latin2 (ISO-8859-2) character definitions.
\def\lattwochardefs{
\gdef^a0{\tie}
\gdef^a1{\ogonek{A}}
\gdef^a2{\u{}}
\gdef^a3{\L}
\gdef^a4{\missingcharmsg{ CURRENCY SIGN }}
\gdef^a5{\v L}
\gdef^a6{\S}
\gdef^a7{\S}
\gdef^a8{\'{} }
\gdef^a9{\v S}
\gdef^aa{\cedilla S}
\gdef^ab{\v T}
\gdef^ac{\Z}
\gdef^ad{\-}
\gdef^ae{\v Z}
\gdef^af{\dotaccent Z}
%
\gdef^b0{\textdegree}
\gdef^b1{\ogonek{a}}
\gdef^b2{\ogonek{ }}
\gdef^b3{\l}
\gdef^b4{\'{} }
\gdef^b5{\v l}
\gdef^b6{\s}
\gdef^b7{\v {}}
\gdef^b8{\cedilla\ }
\gdef^b9{\v s}
\gdef^ba{\cedilla s}
\gdef^bb{\v t}
\gdef^bc{\z}
\gdef^bd{\H{}}
\gdef^be{\v z}
\gdef^bf{\dotaccent z}
%
\gdef^c0{\R}

```



```

\gdef^^c1{\A}
\gdef^^c2{\^A}
\gdef^^c3{\u A}
\gdef^^c4{\^"A}
\gdef^^c5{\L}
\gdef^^c6{\C}
\gdef^^c7{\cedilla C}
\gdef^^c8{\v C}
\gdef^^c9{\E}
\gdef^^ca{\ogonek{E}}
\gdef^^cb{\^"E}
\gdef^^cc{\v E}
\gdef^^cd{\I}
\gdef^^ce{\^I}
\gdef^^cf{\v D}
%
\gdef^^d0{\DH}
\gdef^^d1{\N}
\gdef^^d2{\v N}
\gdef^^d3{\O}
\gdef^^d4{\^O}
\gdef^^d5{\H O}
\gdef^^d6{\^"O}
\gdef^^d7{\$ \times \$}
\gdef^^d8{\v R}
\gdef^^d9{\ringaccent U}
\gdef^^da{\U}
\gdef^^db{\H U}
\gdef^^dc{\^"U}
\gdef^^dd{\Y}
\gdef^^de{\cedilla T}
\gdef^^df{\ss}
%
\gdef^^e0{\r}
\gdef^^e1{\a}
\gdef^^e2{\^a}
\gdef^^e3{\u a}
\gdef^^e4{\^"a}
\gdef^^e5{\l}
\gdef^^e6{\c}
\gdef^^e7{\cedilla c}
\gdef^^e8{\v c}
\gdef^^e9{\e}
\gdef^^ea{\ogonek{e}}
\gdef^^eb{\^"e}
\gdef^^ec{\v e}
\gdef^^ed{\'\{\dotless{i}\}}
\gdef^^ee{\^\{\dotless{i}\}}

```

```

\gdef^^ef{\v d}
%
\gdef^^f0{\dh}
\gdef^^f1{\n}
\gdef^^f2{\v n}
\gdef^^f3{\o}
\gdef^^f4{\^o}
\gdef^^f5{\H o}
\gdef^^f6{"o}
\gdef^^f7{\div$}
\gdef^^f8{\v r}
\gdef^^f9{\ringaccent u}
\gdef^^fa{\u}
\gdef^^fb{\H u}
\gdef^^fc{"u}
\gdef^^fd{\y}
\gdef^^fe{\cedilla t}
\gdef^^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{%
  \ifx #1\relax
    \message{\linenumber Unicode char \string #1 not defined for Texinfo}%
  \else
    \expandafter #1%
  \fi
}

\begingroup

```

```

\catcode`\~13
\catcode`\=12

\def\UTFviiiLoop{%
  \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
\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\parseUTFviiiB#1#2#3#4{%
\advance\countUTFz by "#10\relax
\uccode `#3\countUTFz
\uppercase{\gdef\UTFviiiTmp{##2##3##4}}
\endgroup

\def\utfeightchardefs{%
\DeclareUnicodeCharacter{00A0}{\tie}
\DeclareUnicodeCharacter{00A1}{\exclamdown}
\DeclareUnicodeCharacter{00A3}{\pounds}
\DeclareUnicodeCharacter{00A8}{\{"{ }}

```

```

\DeclareUnicodeCharacter{00A9}{\copyright}
\DeclareUnicodeCharacter{00AA}{\ordf}
\DeclareUnicodeCharacter{00AB}{\guillemetleft}
\DeclareUnicodeCharacter{00AD}{\~}
\DeclareUnicodeCharacter{00AE}{\registeredymbol}
\DeclareUnicodeCharacter{00AF}{\={ }}

```

```

\DeclareUnicodeCharacter{00B0}{\ringaccent{ }}
\DeclareUnicodeCharacter{00B4}{\'}
\DeclareUnicodeCharacter{00B8}{\cedilla{ }}
\DeclareUnicodeCharacter{00BA}{\ordm}
\DeclareUnicodeCharacter{00BB}{\guillemetright}
\DeclareUnicodeCharacter{00BF}{\questiondown}

```

```

\DeclareUnicodeCharacter{00C0}{\`A}
\DeclareUnicodeCharacter{00C1}{\^A}
\DeclareUnicodeCharacter{00C2}{\^A}
\DeclareUnicodeCharacter{00C3}{\~A}
\DeclareUnicodeCharacter{00C4}{\`A}
\DeclareUnicodeCharacter{00C5}{\AA}
\DeclareUnicodeCharacter{00C6}{\AE}
\DeclareUnicodeCharacter{00C7}{\cedilla{C}}
\DeclareUnicodeCharacter{00C8}{\`E}
\DeclareUnicodeCharacter{00C9}{\^E}
\DeclareUnicodeCharacter{00CA}{\^E}
\DeclareUnicodeCharacter{00CB}{\`E}
\DeclareUnicodeCharacter{00CC}{\`I}
\DeclareUnicodeCharacter{00CD}{\^I}
\DeclareUnicodeCharacter{00CE}{\^I}
\DeclareUnicodeCharacter{00CF}{\`I}

```

```

\DeclareUnicodeCharacter{00D0}{\DH}
\DeclareUnicodeCharacter{00D1}{\~N}
\DeclareUnicodeCharacter{00D2}{\`O}
\DeclareUnicodeCharacter{00D3}{\^O}
\DeclareUnicodeCharacter{00D4}{\^O}
\DeclareUnicodeCharacter{00D5}{\~O}
\DeclareUnicodeCharacter{00D6}{\`O}
\DeclareUnicodeCharacter{00D8}{\O}
\DeclareUnicodeCharacter{00D9}{\`U}
\DeclareUnicodeCharacter{00DA}{\^U}
\DeclareUnicodeCharacter{00DB}{\^U}
\DeclareUnicodeCharacter{00DC}{\`U}
\DeclareUnicodeCharacter{00DD}{\`Y}
\DeclareUnicodeCharacter{00DE}{\TH}
\DeclareUnicodeCharacter{00DF}{\ss}

```

```

\DeclareUnicodeCharacter{00E0}{\`a}

```

```

\DeclareUnicodeCharacter{00E1}{\`a}
\DeclareUnicodeCharacter{00E2}{\^a}
\DeclareUnicodeCharacter{00E3}{\~a}
\DeclareUnicodeCharacter{00E4}{\"a}
\DeclareUnicodeCharacter{00E5}{\aa}
\DeclareUnicodeCharacter{00E6}{\ae}
\DeclareUnicodeCharacter{00E7}{\cedilla{c}}
\DeclareUnicodeCharacter{00E8}{\`e}
\DeclareUnicodeCharacter{00E9}{\`e}
\DeclareUnicodeCharacter{00EA}{\^e}
\DeclareUnicodeCharacter{00EB}{\`e}
\DeclareUnicodeCharacter{00EC}{\`{\dotless{i}}}
\DeclareUnicodeCharacter{00ED}{\`{\dotless{i}}}
\DeclareUnicodeCharacter{00EE}{\^{\dotless{i}}}
\DeclareUnicodeCharacter{00EF}{\"{\dotless{i}}}

\DeclareUnicodeCharacter{00F0}{\dh}
\DeclareUnicodeCharacter{00F1}{\~n}
\DeclareUnicodeCharacter{00F2}{\`o}
\DeclareUnicodeCharacter{00F3}{\`o}
\DeclareUnicodeCharacter{00F4}{\^o}
\DeclareUnicodeCharacter{00F5}{\~o}
\DeclareUnicodeCharacter{00F6}{\"o}
\DeclareUnicodeCharacter{00F8}{\o}
\DeclareUnicodeCharacter{00F9}{\`u}
\DeclareUnicodeCharacter{00FA}{\`u}
\DeclareUnicodeCharacter{00FB}{\^u}
\DeclareUnicodeCharacter{00FC}{\"u}
\DeclareUnicodeCharacter{00FD}{\`y}
\DeclareUnicodeCharacter{00FE}{\th}
\DeclareUnicodeCharacter{00FF}{\`y}

\DeclareUnicodeCharacter{0100}{\=A}
\DeclareUnicodeCharacter{0101}{\=a}
\DeclareUnicodeCharacter{0102}{\u{A}}
\DeclareUnicodeCharacter{0103}{\u{a}}
\DeclareUnicodeCharacter{0104}{\ogonek{A}}
\DeclareUnicodeCharacter{0105}{\ogonek{a}}
\DeclareUnicodeCharacter{0106}{\`C}
\DeclareUnicodeCharacter{0107}{\`c}
\DeclareUnicodeCharacter{0108}{\^C}
\DeclareUnicodeCharacter{0109}{\^c}
\DeclareUnicodeCharacter{0118}{\ogonek{E}}
\DeclareUnicodeCharacter{0119}{\ogonek{e}}
\DeclareUnicodeCharacter{010A}{\dotaccent{C}}
\DeclareUnicodeCharacter{010B}{\dotaccent{c}}
\DeclareUnicodeCharacter{010C}{\v{C}}
\DeclareUnicodeCharacter{010D}{\v{c}}

```

```

\DeclareUnicodeCharacter{010E}{\v{D}}

\DeclareUnicodeCharacter{0112}{\=E}
\DeclareUnicodeCharacter{0113}{\=e}
\DeclareUnicodeCharacter{0114}{\u{E}}
\DeclareUnicodeCharacter{0115}{\u{e}}
\DeclareUnicodeCharacter{0116}{\dotaccent{E}}
\DeclareUnicodeCharacter{0117}{\dotaccent{e}}
\DeclareUnicodeCharacter{011A}{\v{E}}
\DeclareUnicodeCharacter{011B}{\v{e}}
\DeclareUnicodeCharacter{011C}{\^G}
\DeclareUnicodeCharacter{011D}{\^g}
\DeclareUnicodeCharacter{011E}{\u{G}}
\DeclareUnicodeCharacter{011F}{\u{g}}

\DeclareUnicodeCharacter{0120}{\dotaccent{G}}
\DeclareUnicodeCharacter{0121}{\dotaccent{g}}
\DeclareUnicodeCharacter{0124}{\^H}
\DeclareUnicodeCharacter{0125}{\^h}
\DeclareUnicodeCharacter{0128}{\~I}
\DeclareUnicodeCharacter{0129}{\~{\dotless{i}}}
\DeclareUnicodeCharacter{012A}{\=I}
\DeclareUnicodeCharacter{012B}{\={\dotless{i}}}
\DeclareUnicodeCharacter{012C}{\u{I}}
\DeclareUnicodeCharacter{012D}{\u{\dotless{i}}}

\DeclareUnicodeCharacter{0130}{\dotaccent{I}}
\DeclareUnicodeCharacter{0131}{\dotless{i}}
\DeclareUnicodeCharacter{0132}{IJ}
\DeclareUnicodeCharacter{0133}{ij}
\DeclareUnicodeCharacter{0134}{\^J}
\DeclareUnicodeCharacter{0135}{\^{\dotless{j}}}
\DeclareUnicodeCharacter{0139}{\L}
\DeclareUnicodeCharacter{013A}{\l}

\DeclareUnicodeCharacter{0141}{\L}
\DeclareUnicodeCharacter{0142}{\l}
\DeclareUnicodeCharacter{0143}{\N}
\DeclareUnicodeCharacter{0144}{\n}
\DeclareUnicodeCharacter{0147}{\v{N}}
\DeclareUnicodeCharacter{0148}{\v{n}}
\DeclareUnicodeCharacter{014C}{\=O}
\DeclareUnicodeCharacter{014D}{\=o}
\DeclareUnicodeCharacter{014E}{\u{O}}
\DeclareUnicodeCharacter{014F}{\u{o}}

\DeclareUnicodeCharacter{0150}{\H{O}}
\DeclareUnicodeCharacter{0151}{\H{o}}

```

```

\DeclareUnicodeCharacter{0152}{\OE}
\DeclareUnicodeCharacter{0153}{\oe}
\DeclareUnicodeCharacter{0154}{\R}
\DeclareUnicodeCharacter{0155}{\r}
\DeclareUnicodeCharacter{0158}{\v{R}}
\DeclareUnicodeCharacter{0159}{\v{r}}
\DeclareUnicodeCharacter{015A}{\S}
\DeclareUnicodeCharacter{015B}{\s}
\DeclareUnicodeCharacter{015C}{\^S}
\DeclareUnicodeCharacter{015D}{\^s}
\DeclareUnicodeCharacter{015E}{\cedilla{S}}
\DeclareUnicodeCharacter{015F}{\cedilla{s}}

\DeclareUnicodeCharacter{0160}{\v{S}}
\DeclareUnicodeCharacter{0161}{\v{s}}
\DeclareUnicodeCharacter{0162}{\cedilla{t}}
\DeclareUnicodeCharacter{0163}{\cedilla{T}}
\DeclareUnicodeCharacter{0164}{\v{T}}

\DeclareUnicodeCharacter{0168}{\~U}
\DeclareUnicodeCharacter{0169}{\~u}
\DeclareUnicodeCharacter{016A}{\=U}
\DeclareUnicodeCharacter{016B}{\=u}
\DeclareUnicodeCharacter{016C}{\u{U}}
\DeclareUnicodeCharacter{016D}{\u{u}}
\DeclareUnicodeCharacter{016E}{\ringaccent{U}}
\DeclareUnicodeCharacter{016F}{\ringaccent{u}}

\DeclareUnicodeCharacter{0170}{\H{U}}
\DeclareUnicodeCharacter{0171}{\H{u}}
\DeclareUnicodeCharacter{0174}{\^W}
\DeclareUnicodeCharacter{0175}{\^w}
\DeclareUnicodeCharacter{0176}{\^Y}
\DeclareUnicodeCharacter{0177}{\^y}
\DeclareUnicodeCharacter{0178}{\^"Y}
\DeclareUnicodeCharacter{0179}{\^Z}
\DeclareUnicodeCharacter{017A}{\^z}
\DeclareUnicodeCharacter{017B}{\dotaccent{Z}}
\DeclareUnicodeCharacter{017C}{\dotaccent{z}}
\DeclareUnicodeCharacter{017D}{\v{Z}}
\DeclareUnicodeCharacter{017E}{\v{z}}

\DeclareUnicodeCharacter{01C4}{D\v{Z}}
\DeclareUnicodeCharacter{01C5}{D\v{z}}
\DeclareUnicodeCharacter{01C6}{d\v{z}}
\DeclareUnicodeCharacter{01C7}{LJ}
\DeclareUnicodeCharacter{01C8}{Lj}
\DeclareUnicodeCharacter{01C9}{lj}

```



```

\DeclareUnicodeCharacter{01CA}{NJ}
\DeclareUnicodeCharacter{01CB}{Nj}
\DeclareUnicodeCharacter{01CC}{nj}
\DeclareUnicodeCharacter{01CD}{\v{A}}
\DeclareUnicodeCharacter{01CE}{\v{a}}
\DeclareUnicodeCharacter{01CF}{\v{I}}

\DeclareUnicodeCharacter{01D0}{\v{\dotless{i}}}
\DeclareUnicodeCharacter{01D1}{\v{O}}
\DeclareUnicodeCharacter{01D2}{\v{o}}
\DeclareUnicodeCharacter{01D3}{\v{U}}
\DeclareUnicodeCharacter{01D4}{\v{u}}

\DeclareUnicodeCharacter{01E2}{\={\AE}}
\DeclareUnicodeCharacter{01E3}{\={\ae}}
\DeclareUnicodeCharacter{01E6}{\v{G}}
\DeclareUnicodeCharacter{01E7}{\v{g}}
\DeclareUnicodeCharacter{01E8}{\v{K}}
\DeclareUnicodeCharacter{01E9}{\v{k}}

\DeclareUnicodeCharacter{01F0}{\v{\dotless{j}}}
\DeclareUnicodeCharacter{01F1}{DZ}
\DeclareUnicodeCharacter{01F2}{Dz}
\DeclareUnicodeCharacter{01F3}{dz}
\DeclareUnicodeCharacter{01F4}{\G}
\DeclareUnicodeCharacter{01F5}{\g}
\DeclareUnicodeCharacter{01F8}{\N}
\DeclareUnicodeCharacter{01F9}{\n}
\DeclareUnicodeCharacter{01FC}{\'\{AE}}
\DeclareUnicodeCharacter{01FD}{\'\{ae}}
\DeclareUnicodeCharacter{01FE}{\'\{O}}
\DeclareUnicodeCharacter{01FF}{\'\{o}}

\DeclareUnicodeCharacter{021E}{\v{H}}
\DeclareUnicodeCharacter{021F}{\v{h}}

\DeclareUnicodeCharacter{0226}{\dotaccent{A}}
\DeclareUnicodeCharacter{0227}{\dotaccent{a}}
\DeclareUnicodeCharacter{0228}{\cedilla{E}}
\DeclareUnicodeCharacter{0229}{\cedilla{e}}
\DeclareUnicodeCharacter{022E}{\dotaccent{O}}
\DeclareUnicodeCharacter{022F}{\dotaccent{o}}

\DeclareUnicodeCharacter{0232}{\=Y}
\DeclareUnicodeCharacter{0233}{\=y}
\DeclareUnicodeCharacter{0237}{\dotless{j}}

\DeclareUnicodeCharacter{02DB}{\ogonek{ }}

```

```

\DeclareUnicodeCharacter{1E02}{\dotaccent{B}}
\DeclareUnicodeCharacter{1E03}{\dotaccent{b}}
\DeclareUnicodeCharacter{1E04}{\udotaccent{B}}
\DeclareUnicodeCharacter{1E05}{\udotaccent{b}}
\DeclareUnicodeCharacter{1E06}{\ubaraccent{B}}
\DeclareUnicodeCharacter{1E07}{\ubaraccent{b}}
\DeclareUnicodeCharacter{1E0A}{\dotaccent{D}}
\DeclareUnicodeCharacter{1E0B}{\dotaccent{d}}
\DeclareUnicodeCharacter{1E0C}{\udotaccent{D}}
\DeclareUnicodeCharacter{1E0D}{\udotaccent{d}}
\DeclareUnicodeCharacter{1E0E}{\ubaraccent{D}}
\DeclareUnicodeCharacter{1E0F}{\ubaraccent{d}}

\DeclareUnicodeCharacter{1E1E}{\dotaccent{F}}
\DeclareUnicodeCharacter{1E1F}{\dotaccent{f}}

\DeclareUnicodeCharacter{1E20}{\=G}
\DeclareUnicodeCharacter{1E21}{\=g}
\DeclareUnicodeCharacter{1E22}{\dotaccent{H}}
\DeclareUnicodeCharacter{1E23}{\dotaccent{h}}
\DeclareUnicodeCharacter{1E24}{\udotaccent{H}}
\DeclareUnicodeCharacter{1E25}{\udotaccent{h}}
\DeclareUnicodeCharacter{1E26}{\`H}
\DeclareUnicodeCharacter{1E27}{\`h}

\DeclareUnicodeCharacter{1E30}{\`K}
\DeclareUnicodeCharacter{1E31}{\`k}
\DeclareUnicodeCharacter{1E32}{\udotaccent{K}}
\DeclareUnicodeCharacter{1E33}{\udotaccent{k}}
\DeclareUnicodeCharacter{1E34}{\ubaraccent{K}}
\DeclareUnicodeCharacter{1E35}{\ubaraccent{k}}
\DeclareUnicodeCharacter{1E36}{\udotaccent{L}}
\DeclareUnicodeCharacter{1E37}{\udotaccent{l}}
\DeclareUnicodeCharacter{1E3A}{\ubaraccent{L}}
\DeclareUnicodeCharacter{1E3B}{\ubaraccent{l}}
\DeclareUnicodeCharacter{1E3E}{\`M}
\DeclareUnicodeCharacter{1E3F}{\`m}

\DeclareUnicodeCharacter{1E40}{\dotaccent{M}}
\DeclareUnicodeCharacter{1E41}{\dotaccent{m}}
\DeclareUnicodeCharacter{1E42}{\udotaccent{M}}
\DeclareUnicodeCharacter{1E43}{\udotaccent{m}}
\DeclareUnicodeCharacter{1E44}{\dotaccent{N}}
\DeclareUnicodeCharacter{1E45}{\dotaccent{n}}
\DeclareUnicodeCharacter{1E46}{\udotaccent{N}}
\DeclareUnicodeCharacter{1E47}{\udotaccent{n}}
\DeclareUnicodeCharacter{1E48}{\ubaraccent{N}}

```

`\DeclareUnicodeCharacter{1E49}{\ubaraccent{n}}`

`\DeclareUnicodeCharacter{1E54}{\P}`

`\DeclareUnicodeCharacter{1E55}{\p}`

`\DeclareUnicodeCharacter{1E56}{\dotaccent{P}}`

`\DeclareUnicodeCharacter{1E57}{\dotaccent{p}}`

`\DeclareUnicodeCharacter{1E58}{\dotaccent{R}}`

`\DeclareUnicodeCharacter{1E59}{\dotaccent{r}}`

`\DeclareUnicodeCharacter{1E5A}{\udotaccent{R}}`

`\DeclareUnicodeCharacter{1E5B}{\udotaccent{r}}`

`\DeclareUnicodeCharacter{1E5E}{\ubaraccent{R}}`

`\DeclareUnicodeCharacter{1E5F}{\ubaraccent{r}}`

`\DeclareUnicodeCharacter{1E60}{\dotaccent{S}}`

`\DeclareUnicodeCharacter{1E61}{\dotaccent{s}}`

`\DeclareUnicodeCharacter{1E62}{\udotaccent{S}}`

`\DeclareUnicodeCharacter{1E63}{\udotaccent{s}}`

`\DeclareUnicodeCharacter{1E6A}{\dotaccent{T}}`

`\DeclareUnicodeCharacter{1E6B}{\dotaccent{t}}`

`\DeclareUnicodeCharacter{1E6C}{\udotaccent{T}}`

`\DeclareUnicodeCharacter{1E6D}{\udotaccent{t}}`

`\DeclareUnicodeCharacter{1E6E}{\ubaraccent{T}}`

`\DeclareUnicodeCharacter{1E6F}{\ubaraccent{t}}`

`\DeclareUnicodeCharacter{1E7C}{\~V}`

`\DeclareUnicodeCharacter{1E7D}{\~v}`

`\DeclareUnicodeCharacter{1E7E}{\udotaccent{V}}`

`\DeclareUnicodeCharacter{1E7F}{\udotaccent{v}}`

`\DeclareUnicodeCharacter{1E80}{\`W}`

`\DeclareUnicodeCharacter{1E81}{\`w}`

`\DeclareUnicodeCharacter{1E82}{\`W}`

`\DeclareUnicodeCharacter{1E83}{\`w}`

`\DeclareUnicodeCharacter{1E84}{\`"W}`

`\DeclareUnicodeCharacter{1E85}{\`"w}`

`\DeclareUnicodeCharacter{1E86}{\dotaccent{W}}`

`\DeclareUnicodeCharacter{1E87}{\dotaccent{w}}`

`\DeclareUnicodeCharacter{1E88}{\udotaccent{W}}`

`\DeclareUnicodeCharacter{1E89}{\udotaccent{w}}`

`\DeclareUnicodeCharacter{1E8A}{\dotaccent{X}}`

`\DeclareUnicodeCharacter{1E8B}{\dotaccent{x}}`

`\DeclareUnicodeCharacter{1E8C}{\`X}`

`\DeclareUnicodeCharacter{1E8D}{\`x}`

`\DeclareUnicodeCharacter{1E8E}{\dotaccent{Y}}`

`\DeclareUnicodeCharacter{1E8F}{\dotaccent{y}}`

`\DeclareUnicodeCharacter{1E90}{\^Z}`

`\DeclareUnicodeCharacter{1E91}{\^z}`

```

\DeclareUnicodeCharacter{1E92}{\udotaccent{Z}}
\DeclareUnicodeCharacter{1E93}{\udotaccent{z}}
\DeclareUnicodeCharacter{1E94}{\ubaraccent{Z}}
\DeclareUnicodeCharacter{1E95}{\ubaraccent{z}}
\DeclareUnicodeCharacter{1E96}{\ubaraccent{h}}
\DeclareUnicodeCharacter{1E97}{\t}
\DeclareUnicodeCharacter{1E98}{\ringaccent{w}}
\DeclareUnicodeCharacter{1E99}{\ringaccent{y}}

\DeclareUnicodeCharacter{1EA0}{\udotaccent{A}}
\DeclareUnicodeCharacter{1EA1}{\udotaccent{a}}

\DeclareUnicodeCharacter{1EB8}{\udotaccent{E}}
\DeclareUnicodeCharacter{1EB9}{\udotaccent{e}}
\DeclareUnicodeCharacter{1EBC}{\~E}
\DeclareUnicodeCharacter{1EBD}{\~e}

\DeclareUnicodeCharacter{1ECA}{\udotaccent{I}}
\DeclareUnicodeCharacter{1ECB}{\udotaccent{i}}
\DeclareUnicodeCharacter{1ECC}{\udotaccent{O}}
\DeclareUnicodeCharacter{1ECD}{\udotaccent{o}}

\DeclareUnicodeCharacter{1EE4}{\udotaccent{U}}
\DeclareUnicodeCharacter{1EE5}{\udotaccent{u}}

\DeclareUnicodeCharacter{1EF2}{\Y}
\DeclareUnicodeCharacter{1EF3}{\y}
\DeclareUnicodeCharacter{1EF4}{\udotaccent{Y}}

\DeclareUnicodeCharacter{1EF8}{\~Y}
\DeclareUnicodeCharacter{1EF9}{\~y}

\DeclareUnicodeCharacter{2013}{--}
\DeclareUnicodeCharacter{2014}{---}
\DeclareUnicodeCharacter{2018}{\quoteleft}
\DeclareUnicodeCharacter{2019}{\quoteright}
\DeclareUnicodeCharacter{201A}{\quotesinglbase}
\DeclareUnicodeCharacter{201C}{\quotedblleft}
\DeclareUnicodeCharacter{201D}{\quotedblright}
\DeclareUnicodeCharacter{201E}{\quotedblbase}
\DeclareUnicodeCharacter{2022}{\bullet}
\DeclareUnicodeCharacter{2026}{\dots}
\DeclareUnicodeCharacter{2039}{\guilsinglleft}
\DeclareUnicodeCharacter{203A}{\guilsinglright}
\DeclareUnicodeCharacter{20AC}{\euro}

\DeclareUnicodeCharacter{2192}{\expansion}
\DeclareUnicodeCharacter{21D2}{\result}

```

```

\DeclareUnicodeCharacter{2212}{\minus}
\DeclareUnicodeCharacter{2217}{\point}
\DeclareUnicodeCharacter{2261}{\equiv}
}% end of \utfeightchardefs

% US-ASCII character definitions.
\def\asciichardefs{% nothing need be done
  \relax
}

% Make non-ASCII characters printable again for compatibility with
% 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
\subseheadingskip = 9pt plus 2pt minus 2pt

% Prevent underfull vbox error messages.
\vbaddness = 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 TeX 3.0's \emergencystretch to help line breaking, but if we're
% using an old version of TeX, don't do anything. We want the amount of
% stretch added to depend on the line length, hence the dependence on
% \hspace. We call this whenever the paper size is set.
%
\def\setemergencystretch{%
\ifx\emergencystretch\thisisundefined
  % Allow us to assign to \emergencystretch anyway.
  \def\emergencystretch{\dimen0}%
\else
  \emergencystretch = .15\hspace

```

```

\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
\splittopskip = \topskip
%
\vsizer = #1\relax
\advance\vsizer by \topskip
\outersizer = \vsizer
\advance\outersizer by 2\topandbottommargin
\pageheight = \vsizer
%
\hsizer = #2\relax
\outersizer = \hsizer
\advance\outersizer by 0.5in
\pagewidth = \hsizer
%
\normaloffset = #4\relax
\bindingoffset = #5\relax
%
\ifpdf
\pdfpageheight #7\relax
\pdfpagewidth #8\relax
% if we don't reset these, they will remain at "1 true in" of
% whatever layout pdftex was dumped with.
\pdfhorigin = 1 true in
\pdfvorigin = 1 true in
\fi
%
\setleading{\textleading}
%
\parindent = \defaultparindent
\setemergencystretch
}

% @letterpaper (the default).
\def\letterpaper{ \globaldefs = 1
\parskip = 3pt plus 2pt minus 1pt
\textleading = 13.2pt

```

```

%
% If page is nothing but text, make it come out even.
\internalpagesizes{607.2pt}{6in}% that's 46 lines
    {\voffset}{.25in}%
    {\bindingoffset}{36pt}%
    {11in}{8.5in}%
}}

```

```

% Use @smallbook to reset parameters for 7x9.25 trim size.
\def\smallbook{\globaldefs = 1
\parskip = 2pt plus 1pt
\textleading = 12pt
%
\internalpagesizes{7.5in}{5in}%
    {-.2in}{0in}%
    {\bindingoffset}{16pt}%
    {9.25in}{7in}%

%
\lispnarrowing = 0.3in
\tolerance = 700
\hfuzz = 1pt
\contentsrightmargin = 0pt
\defbodyindent = .5cm
}}

```

```

% Use @smallerbook to reset parameters for 6x9 trim size.
% (Just testing, parameters still in flux.)
\def\smallerbook{\globaldefs = 1
\parskip = 1.5pt plus 1pt
\textleading = 12pt
%
\internalpagesizes{7.4in}{4.8in}%
    {-.2in}{-.4in}%
    {0pt}{14pt}%
    {9in}{6in}%

%
\lispnarrowing = 0.25in
\tolerance = 700
\hfuzz = 1pt
\contentsrightmargin = 0pt
\defbodyindent = .4cm
}}

```

```

% Use @afourpaper to print on European A4 paper.
\def\afourpaper{\globaldefs = 1
\parskip = 3pt plus 2pt minus 1pt
\textleading = 13.2pt
%

```

```

% Double-side printing via postscript on Laserjet 4050
% prints double-sided nicely when \bindingoffset=10mm and \hoffset=-6mm.
% To change the settings for a different printer or situation, adjust
% \normaloffset until the front-side and back-side texts align. Then
% do the same for \bindingoffset. You can set these for testing in
% your texinfo source file like this:
% @tex
% \global\normaloffset = -6mm
% \global\bindingoffset = 10mm
% @end tex
\internalpagesizes{673.2pt}{160mm}% that's 51 lines
    {\voffset}{\hoffset}%
    {\bindingoffset}{44pt}%
    {297mm}{210mm}%

%
\tolerance = 700
\hfuzz = 1pt
\contentsrightmargin = 0pt
\defbodyindent = 5mm
}}

% Use @afivepaper to print on European A5 paper.
% From romildo@urano.iceb.ufop.br, 2 July 2000.
% He also recommends making @example and @lisp be small.
\def\afivepaper{ {\globaldefs = 1
\parskip = 2pt plus 1pt minus 0.1pt
\textleading = 12.5pt
%
\internalpagesizes{160mm}{120mm}%
    {\voffset}{\hoffset}%
    {\bindingoffset}{8pt}%
    {210mm}{148mm}%

%
\lispnarrowing = 0.2in
\tolerance = 800
\hfuzz = 1.2pt
\contentsrightmargin = 0pt
\defbodyindent = 2mm
\tableindent = 12mm
}}

% A specific text layout, 24x15cm overall, intended for A4 paper.
\def\afourlatex{ {\globaldefs = 1
\afourpaper
\internalpagesizes{237mm}{150mm}%
    {\voffset}{4.6mm}%
    {\bindingoffset}{7mm}%
    {297mm}{210mm}%

```



```

%
% Must explicitly reset to 0 because we call \afourpaper.
\globaldefs = 0
}}

% Use @afourwide to print on A4 paper in landscape format.
\def\afourwide{\globaldefs = 1
\afourpaper
\internalpagesizes{241mm}{165mm}%
    {\voffset}{-2.95mm}%
    {\bindingoffset}{7mm}%
    {297mm}{210mm}%
\globaldefs = 0
}}

% @pagesizes TEXTHEIGHT[,TEXTWIDTH]
% 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 #1\else #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 #1\else #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=\^
\catcode`\^=\active
\def^{{\tt \hat}}

\catcode`\_=\active
\def_{\ifusingtt\normalunderscore\_}
\let\realunder=_

```

```

% Subroutine for the previous macro.
\def_{\leavevmode \kern.07em \vbox{\hrule width.3em height.1ex}\kern .07em }

\catcode`\|= \active
\def{\tt\char124}
\chardef \less= \<
\catcode`\<= \active
\def<{\tt \less}
\chardef \gtr= \>
\catcode`\>= \active
\def>{\tt \gtr}
\catcode`\+= \active
\def+{\tt \char 43}
\catcode`\$= \active
\def${\ifusingit{\sl\$}}\normaldollar}%$ 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

% \realbackslash is an actual character \ with catcode other, and
% \doublebackslash is two of them (for the pdf outlines).
{\catcode`\ = \other @gdef@realbackslash{\} @gdef@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 "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 ``. 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
  @markupsetupprqdefault
  @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 \eainput is for; after that, the `` should revert to printing
% a backslash.
%
@gdef@eainput input texinfo{ @fixbackslash }
@global@let\ = @eainput

```

```
% 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\ = @normalbackslash @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 txcodeword and
@c txcodewordbacktick 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 vim:sw=2:
```

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

## 1.263 libffi/msvcc.sh 3.2.1

### 1.263.1 Available under license :

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## 1.265 libgrypt 1.5.3

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

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

```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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```

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

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## 1.278 libpopt0 1.16

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## 1.279 libsodium 1.0.16 :1.e17

### 1.279.1 Available under license :

```
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 */
```

## 1.280 libtasn1 3.4

### 1.280.1 Available under license :

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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compiler/cpp/src/generate/t\_perl\_generator.cc  
compiler/cpp/src/generate/t\_php\_generator.cc  
compiler/cpp/src/generate/t\_py\_generator.cc  
compiler/cpp/src/generate/t\_rb\_generator.cc  
compiler/cpp/src/generate/t\_st\_generator.cc  
compiler/cpp/src/generate/t\_xsd\_generator.cc  
compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h  
compiler/cpp/src/platform.h  
compiler/cpp/src/thrift.ll  
compiler/cpp/src/thrift.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
lib/csharp/src/Protocol/TMap.cs  
lib/csharp/src/Protocol/TMessage.cs  
lib/csharp/src/Protocol/TMessageType.cs  
lib/csharp/src/Protocol/TProtocol.cs  
lib/csharp/src/Protocol/TProtocolException.cs  
lib/csharp/src/Protocol/TProtocolFactory.cs  
lib/csharp/src/Protocol/TProtocolUtil.cs  
lib/csharp/src/Protocol/TSet.cs  
lib/csharp/src/Protocol/TStruct.cs  
lib/csharp/src/Protocol/TType.cs  
lib/csharp/src/Server/TServer.cs  
lib/csharp/src/Server/TSimpleServer.cs  
lib/csharp/src/Server/TThreadPoolServer.cs  
lib/csharp/src/TApplicationException.cs  
lib/csharp/src/Thrift.csproj  
lib/csharp/src/Thrift.sln  
lib/csharp/src/TProcessor.cs  
lib/csharp/src/Transport/TServerSocket.cs  
lib/csharp/src/Transport/TServerTransport.cs  
lib/csharp/src/Transport/TSocket.cs  
lib/csharp/src/Transport/TStreamTransport.cs  
lib/csharp/src/Transport/TTransport.cs  
lib/csharp/src/Transport/TTransportException.cs  
lib/csharp/src/Transport/TTransportFactory.cs

lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs  
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj  
lib/rb/lib/thrift.rb  
lib/st/README  
lib/st/thrift.st  
test/OptionalRequiredTest.cpp  
test/OptionalRequiredTest.thrift  
test/ThriftTest.thrift

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```

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

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## 1.285 libuv 1.11.0 :1

### 1.285.1 Available under license :

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Files: getopt.c  
=====

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*/

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS \
    uv_io_t event_watcher; \

#define UV_IO_PRIVATE_PLATFORM_FIELDS \
    int rcount; \
    int wcount; \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

```

## 1.286 libwebsockets 2.1.0

### 1.286.1 Available under license :

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- test-server/\*.c
- test-server/\*.h
- lws/\*.\*

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Version 2.1, February 1999

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
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## 1.301 lucene-grouping 6.6.1

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## 1.306 Lucene-queries 6.6.1

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## 1.308 lucene-sandbox 6.6.1

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Version: 1.5

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Status: Final Release

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Specification Lead: Oracle America, Inc. ("Specification Lead")

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## 1.325 maven-jgit-buildnumber-plugin 1.2.10

## 1.326 maven-shade-plugin 3.1.0 :3

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# 1.327 maven-surefire-plugin 2.18

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## 1.335 moment-timezone 0.5.13

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## 1.338 mustache.java 0.9.3

# 1.339 ncclient 0.5.3

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## 1.340 ncs 4.4.3

## 1.341 ncurses 6.1+20180630

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## 1.342 ndisc6

# 1.0.4+git4c794b5512d23c649def1f94a684225dcbb6ac3e

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## 1.347 netty 3.10.6



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## **1.348 netty-buffer 4.1.13**

## **1.349 netty-codec 4.1.13.FINAL**

## **1.350 netty-codec-http 4.1.13.FINAL**

## **1.351 netty-common 4.1.13.FINAL**

## **1.352 netty-handler 4.1.13.FINAL**

## **1.353 netty-resolver 4.1.13.FINAL**

## **1.354 netty-transport 4.1.13.Final-sources**

# 1.355 ng-file-upload 7.2.1

## 1.356 ng-idle 1.3.2

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<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
 "Clone me," says Dolly sheepishly.
<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
  UTC</p>
<br clear="left">
</p>
<hr>
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<li><a href="mailto:%20thorinn@diku.dk">Lars H. Mathiesen <thorinn@diku.dk></a> adaptation of foundation code for Version 3 as specified in RFC-1305</li>  
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<li><a href="mailto:%20mogul@pa.dec.com">Jeffrey Mogul <mogul@pa.dec.com></a> ntptrace utility</li>  
<li><a href="mailto:%20tmoore@fievel.daytonoh.ncr.com">Tom Moore <tmoore@fievel.daytonoh.ncr.com></a> i386 svr4 port</li>  
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  51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
  52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
  53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
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```

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  type = ntp;
};

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

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

version-value = "; /* Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
```

```
* values in sntp/include/version.texti .
*/
// doc-sub = {
//   sub-name = version;
//   sub-text = 's/#VERSION#/<<version>>/g';
// };
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## 1.368 oauthlib 2.0.6

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## 1.369 object-model 1.0.16-



# 1.370 onig 5.9.6

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# 1.371 open-vm-tools 10.1.5

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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>>> icu4c-4.4.1

ICU License - ICU 1.8.1 and later

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\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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```
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*/
```

```
#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */
```

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*/
```

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

```
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_
```

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

```
typedef unsigned int nfds_t;
```

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

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

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

```
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```

```

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*
*/

```

```

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

```

```

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

```

```

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

```

```

/* Prototype */
pid_t waitpid(int, int *, int);

```

```

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

```

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## 1.379 orientdb-distributed 2.2.31

## 1.380 orientdb-graphdb 2.2.31

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## 1.383 packagegroup-core-boot 1.0 :r17.0

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The End

```
#!/perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

```
=cut
```

```
use TestInit;
```

```
use strict;
```

```
use Config;
```

```
BEGIN { require 'test.pl' }
```

```
if ( $Config{usecrosscompile} ) {
```

```
    skip_all( "Not all files are available during cross-compilation" );
```

```
}
```

```
my ($opt) = @ARGV;
```

```
my $readme_year = readme_year();
```

```
my $v_year = v_year();
```

```
# Check that both copyright dates are up-to-date, but only if requested, so
```

```
# that tests still pass for people intentionally working on older versions:
```

```
if ($opt eq '--now')
```

```
{
```

```
    my $current_year = (gmtime)[5] + 1900;
```

```
    is $v_year, $current_year, 'perl -v copyright includes current year';
```

```
    is $readme_year, $current_year, 'README copyright includes current year';
```

```
}
```

```

# Otherwise simply check that the two copyright dates match each other:
else
{
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

open my $readme, '<', './README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /\.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>."
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl

```

meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: Module-Build  
resources:  
MailingList: <mailto:module-build@perl.org>  
license: <http://dev.perl.org/licenses/>  
repository: <http://github.com/dagolden/module-build/>  
version: 3

-----  
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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)

# 1.398 picketbox 4.0.21.Final

## 1.398.1 Available under license :

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Version 2.1, February 1999

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## 1.404 protobuf-c 1.3.0

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## 1.405 protobuf-java 3.5.1

## 1.406 pyasn1 0.4.2

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

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

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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Mersenne Twister

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

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

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

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

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

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

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

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

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

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

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

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strtod and dtoa

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Mersenne Twister

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

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

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

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

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

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

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose

text is available at

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

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

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

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

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

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

XML Remote Procedure Calls

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test_epoll

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Select kqueue

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strtod and dtoa

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

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1.412 python-adal 0.5.0

1.413 python-azure-common 1.1.8

1.414 python-azure-mgmt-compute 3.0.1

1.415 python-azure-mgmt-network 1.7.1

1.416 python-azure-mgmt-nspkg 2.0.0

1.417 python-azure-mgmt-resource 1.2.2

1.418 python-azure-nspkg 2.0.0

1.419 python-certifi 2018.1.18

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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1.420 python-cryptography 2.1.4

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1.421 python-daemonize 2.4.7

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1.422 python-dateutil 2.7.2

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1.423 python-enum34 1.1.6

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1.424 python-enum34 1.1.6 :r0

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1.425 python-isodate 0.6.0

1.426 python-jmespath 0.9.0 :3.e17

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1.427 python-jsonpatch 1.23

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1.428 python-jsonpointer 2.0

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1.429 python-keyring 11.0.0

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1.430 python-lockfile 0.12.2

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1.431 python-msrest 0.4.26

1.432 python-msrestazure 0.4.21

1.433 python-ndg-httpsclient 0.4.4

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1.434 python-ntlm3 1.0.2

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1.435 python-pbr 3.1.1 :2.el7ost

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1.437 python-pip 9.0.3

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1.438 python-ply 3.11 :1.0

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1.443 python-urllib3 1.22 :1

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* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>

* Non-multipart encoding for POST requests

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- * Support for explicitly closing pooled connections

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

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

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- * Optional SNI-support for Python 2 via PyOpenSSL.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Erik Tollerud <erik.tollerud@gmail.com>

- * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
- * Google App Engine documentation

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

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

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

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

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

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

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

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

- * Jon Wayne Parrott <jonwayne@google.com>
- * App Engine environment tests.

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

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

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

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

- * Jordan Moldow <https://github.com/jmoldow>
- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
- * Creation of ``HTTPConnectionPool.ResponseCls``.

- * Predrag Gruevski <<https://github.com/obi1kenobi>>
- * Made cert digest comparison use a constant-time algorithm.

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

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

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

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

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

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

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

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

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

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

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

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

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

* Moinuddin Quadri <moin18@gmail.com>

* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>

* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>

* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>

* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>

* Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

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Upstream-Contact: Andrey Petrov <andrey.petrov@shazow.net>

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1.444 pytz 2018.4

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1.445 PyYAML 3.12

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1.446 quagga 0.99.23

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```
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```
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1.447 quartz 2.3.0

1.448 quickassist 2.6.0

1.448.1 Available under license :

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1.458 runc 1.0.0-rc5

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ffjson

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1.480 SLF4J LOG4J-12 Binding 1.7.5

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1.481 slf4j-api 1.7.7

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 */
package org.slf4j;

import org.slf4j.helpers.BasicMarkerFactory;
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;

/**
 * MarkerFactory is a utility class producing {@link Marker} instances as
 * appropriate for the logging system currently in use.
 *
 * <p>
 * This class is essentially implemented as a wrapper around an
 * {@link IMarkerFactory} instance bound at compile time.
 *
 * <p>
 * Please note that all methods in this class are static.
 *
 * @author Ceki G&uuml;lc&uuml;l;
 */
public class MarkerFactory {
```

```

static IMarkerFactory markerFactory;

private MarkerFactory() {
}

static {
    try {
        markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
    } catch (NoClassDefFoundError e) {
        markerFactory = new BasicMarkerFactory();

    } catch (Exception e) {
        // we should never get here
        Util.report("Unexpected failure while binding MarkerFactory", e);
    }
}

/**
 * Return a Marker instance as specified by the name parameter using the
 * previously bound {@link IMarkerFactory} instance.
 *
 * @param name
 *     The name of the {@link Marker} object to return.
 * @return marker
 */
public static Marker getMarker(String name) {
    return markerFactory.getMarker(name);
}

/**
 * Create a marker which is detached (even at birth) from the MarkerFactory.
 *
 * @param name the name of the marker
 * @return a dangling marker
 * @since 1.5.1
 */
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
 * Return the {@link IMarkerFactory} instance in use.
 *
 * <p>The IMarkerFactory instance is usually bound with this class at
 * compile time.
 *
 * @return the IMarkerFactory instance in use
 */

```



```
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}
}
```

1.482 slf4j-log4j12 1.7.7

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1.483 smDateTimeRangePicker 2.0.11

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1.484 snakeyaml 1.17

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1.485 snappy-java 1.1.0.1

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1.486 socklog 2.1.0

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1.487 sqlite3 3.22.0 :1

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<p>

<table width="100%" cellpadding="0" cellspacing="0">

<tr>

<td width="60%" valign="top">

Signature:

<p> </p>

<p> </p>

<p> </p>

</td><td valign="top" align="left">

Date:

</td></tr>

<td colspan=2>

Name (printed):

</td>

</tr>

</table>

</body>

</html>

```

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html><head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<link href="sqlite.css" rel="stylesheet">
<title>SQLite Copyright</title>
<!-- path= -->
</head>
<body>
<div class=nosearch>
<a href="index.html">

</a>
<div><!-- IE hack to prevent disappearing logo --></div>
<div class="tagline desktoponly">
Small. Fast. Reliable.<br>Choose any three.
</div>
<div class="menu mainmenu">
<ul>
<li><a href="index.html">Home</a>
<li class='mobileonly'><a href="javascript:void(0)" onclick='toggle_div("submenu")'>Menu</a>
<li class='wideonly'><a href='about.html'>About</a>
<li class='desktoponly'><a href="docs.html">Documentation</a>
<li class='desktoponly'><a href="download.html">Download</a>
<li class='wideonly'><a href='copyright.html'>License</a>
<li class='desktoponly'><a href="support.html">Support</a>
<li class='desktoponly'><a href="prosupport.html">Purchase</a>
<li class='search' id='search_menubutton'>
<a href="javascript:void(0)" onclick='toggle_search()'>Search</a>
</li>
</ul>
</div>
<div class="menu submenu" id="submenu">
<ul>
<li><a href='about.html'>About</a>
<li><a href='docs.html'>Documentation</a>
<li><a href='download.html'>Download</a>
<li><a href='support.html'>Support</a>
<li><a href='prosupport.html'>Purchase</a>
</ul>
</div>
<div class="searchmenu" id="searchmenu">
<form method="GET" action="search">
<select name="s" id="searchtype">
<option value="d">Search Documentation</option>
<option value="c">Search Changelog</option>
</select>
<input type="text" name="q" id="searchbox" value="">
<input type="submit" value="Go">

```

```

</form>
</div>
</div>
<script>
function toggle_div(nm) {
var w = document.getElementById(nm);
if( w.style.display=="block" ){
w.style.display = "none";
}else{
w.style.display = "block";
}
}
function toggle_search() {
var w = document.getElementById("searchmenu");
if( w.style.display=="block" ){
w.style.display = "none";
} else {
w.style.display = "block";
setTimeout(function(){
document.getElementById("searchbox").focus()
}, 30);
}
}
function div_off(nm){ document.getElementById(nm).style.display="none";}
window.onbeforeunload = function(e){div_off("submenu");}
/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match || !location.origin.match(/http/) ){
document.getElementById("search_menubutton").style.display = "none";
}
/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
function hideorshow(btn,obj){
var x = document.getElementById(obj);
var b = document.getElementById(btn);
if( x.style.display!='none' ){
x.style.display = 'none';
b.innerHTML='show';
}else{
x.style.display = "";
b.innerHTML='hide';
}
return false;
}
</script>
</div>

```

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Upstream-Name: sqlite3
Source: <http://www.sqlite.org/cgi/src/dir?ci=trunk>

Files: *

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1.488 sshd-common 2.1.0

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1.495 strongswan 5.6.3 :1ubuntu2

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```
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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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*

* This file is part of the lwIP TCP/IP stack.

*

* Author: Adam Dunkels <adam@sics.se>

*

*/

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1.502.1 Available under license :

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1.503 tar 1.30

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1.504 tcpdump 4.9.2

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1.505 tpm-quote-tools 1.0.1

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1.506 tpm-tools 1.3.8 :6.e17

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1.507 traceroute 2.0.21

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1.510 trilead-ssh2 build217-jenkins-4

1.511 trousers 0.3.13

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1.513 ui-select 0.18.1

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1.514 underscore 1.7.0

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1.515 urllib3 1.22

1.516 usbutils 009

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Version 2.1, February 1999

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1.522 velocity 1.7

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    margin-bottom: 0.5em;  
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    margin-top: 0.05em;  
    margin-bottom: 0.05em;  
}
```

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</style>
```

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</head>
```

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<body lang="EN-US">
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</body>

</html>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

<html lang="en">

<head>

<title>Apache License, Version 2.0</title>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<meta property="og:image" content="http://www.apache.org/images/asf_logo.gif" />


```
<link rel="stylesheet" type="text/css" media="screen" href="/css/style.css">
<link rel="stylesheet" type="text/css" media="screen" href="/css/code.css">

<script type="text/javascript" src="/js/jquery.js"></script>
<script type="text/javascript" src="/js/apache_boot.js"></script>
```

```
<!-- Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See
the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF
licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file except in
compliance with the License. You may obtain a copy of the License at . http://www.apache.org/licenses/LICENSE-
2.0 . Unless required by applicable law or agreed to in writing, software distributed under the License is distributed
on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and limitations under the License. -->
</head>
```

```
<body>
<div id="page" class="container_16">
  <div id="header" class="grid_8">
    
    <h1>The Apache Software Foundation</h1>
    <h2>Apache License, Version 2.0</h2>
  </div>
  <div id="nav" class="grid_8">
    <ul>
      <!-- <li><a href="/" title="Welcome!">Home</a></li> -->
      <li><a href="/foundation/" title="The Foundation">Foundation</a></li>
      <li><a href="http://projects.apache.org" title="The Projects">Projects</a></li>
      <li><a href="http://people.apache.org" title="The People">People</a></li>
      <li><a href="/foundation/getinvolved.html" title="Get Involved">Get Involved</a></li>
      <li><a href="/dyn/closer.cgi" title="Download">Download</a></li>
      <li><a href="/foundation/sponsorship.html" title="Support Apache">Support Apache</a></li>
    </ul>
    <p><a href="/">Home</a> &nbsp;&raquo;&nbsp;&nbsp;<a href="/licenses/">Licenses</a></p>
    <form name="search" id="search" action="http://www.google.com/search" method="get">
      <input value="apache.org" name="sitesearch" type="hidden"/>
      <input type="text" name="q" id="query">
      <input type="submit" id="submit" value="Search">
    </form>
  </div>
  <div class="clear"></div>
  <div id="content" class="grid_16"><div class="section-content"><p>Apache License<br></br>Version 2.0,
  January 2004<br></br>
  <a href="http://www.apache.org/licenses/">http://www.apache.org/licenses/</a> </p>
  <p>TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION</p>
```

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<div class="codehilite"><pre>Copyright [yyyy] [name of copyright owner]

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</pre></div></div></div>

<div class="clear"></div>

</div>

<div id="footer" class="container_16">

<div class="links grid_16">

<div class="grid_3">

<h4>Projects</h4>

HTTP Server

Abdera

Accumulo

ACE

ActiveMQ

Airavata

Allura

Ambari

Ant

Any23

- APR
- Archiva
- Aries
- Avro
- Axis
- Bigtop
- Bloodhound
- Buildr
- BVal
- Camel
- Cassandra
- Cayenne
- Chemistry
- Chukwa
- Clerezza
- CloudStack
- Cocoon
- Commons
- Continuum
- Cordova
- CouchDB
- Creadur
- Crunch
- cTAKES
- Curator
- CXF
- DB
- Deltacloud
- DeltaSpike
- DirectMemory
- Directory
- Empire-db
- <a href="http://etch.apache.org/" title="Cross-platform, language- and transport-independent RPC-like

messaging framework">Etch

Felix

Flex

Flume

Forrest

Geronimo

Giraph

Gora

Gump

Hadoop

Hama

HBase

Helix

Hive

HttpComponents

Isis

Jackrabbit

James

jclouds

Jena

JMeter

JSPWiki

jUDDI

Kafka

Karaf

Knox

Lenya

Libcloud

Logging

Lucene

Lucene.Net

Lucy

Mahout

<a href="http://manifoldcf.apache.org/" title="Framework for connecting source content repositories to target

repositories or indexes.">ManifoldCF

Marmotta

Maven

Mesos

MINA

MRUnit

MyFaces

Nutch

ODE

OFBiz

Olingo

Oltu

Onami

OODT

Oozie

Open Climate Workbench

OpenJPA

OpenMeetings

OpenNLP

OpenOffice

OpenWebBeans

PDFBox

Perl

Pig

Pivot

POI

Portals

Qpid

Rave

River

Roller

Santuario

ServiceMix

Shindig

Shiro

- SIS
- Sling
- SpamAssassin
- Spark
- Sqoop
- Stanbol
- STeVe
- Storm
- Struts
- Subversion
- Synapse
- Syncope
- Tajo
- Tapestry
- Tcl
- Tez
- Thrift
- Tika
- Tiles
- Tomcat
- TomEE
- Traffic Server
- Turbine
- Tuscany
- UIMA
- VCL
- Velocity
- VXQuery
- Web Services
- Whirr
- Wicket
- Wink
- Wookie

- [Xalan](http://xalan.apache.org/ "XSLT processors in Java and C++")
- [Xerces](http://xerces.apache.org/ "XML parsers in Java, C++ and Perl")
- [XMLBeans](http://xmlbeans.apache.org/ "XML-Java binding tool")
- [XML Graphics](http://xmlgraphics.apache.org/ "Conversion from XML to graphical output")
- [ZooKeeper](http://zookeeper.apache.org/ "Centralized service for maintaining configuration information")

</div>

<div class="grid_3">

<h4>Foundation</h4>

FAQ

Glossary

Licenses

Trademarks

News

Press Inquiries

Public Records

Mailing Lists

Sponsorship

Donations

Buy Stuff

Thanks

Contact

</div>

<div class="grid_3 suffix_1">

<h4>Foundation Projects</h4>

Attic

Conferences

Community Development

Incubator

Infrastructure

Labs

Legal Affairs

Public Relations

Security

Travel Assistance

</div>

```
<div class="grid_3">
  <h4>Community</h4>
  <ul>
    <li><a href="http://people.apache.org/" title="Apache committer homepages">People</a></li>
    <li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
    <li><a href="http://feathercast.apache.org/" title="Apache Podcasts">Feathercast</a></li>
    <li><a href="http://blogs.apache.org/" title="Apache Project Blogs">Project Blogs</a></li>
    <li><a href="http://planet.apache.org/committers/" title="Apache Committers' Blogs">PlanetApache</a></li>
  </ul>
</div>
```

```
<div class="grid_3">
  <h4>How It Works</h4>
  <ul>
    <li><a href="/foundation/how-it-works.html">Introduction</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#structure">Structure</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>
    <li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>
    <li><a href="/foundation/how-it-works.html#other">Other entities</a></li>
    <li><a href="/foundation/glossary.html">Glossary</a></li>
    <li><a href="/foundation/voting.html">Voting</a></li>
  </ul>
</div>
</div>
<div class="clear"></div>
```

```
</div>
<div id="copyright" class="container_16">
  <p>Copyright © 2012 The Apache Software Foundation, Licensed under the <a href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>. <br/> Apache and the Apache feather logo are trademarks of The Apache Software Foundation.</p>
</div>
```

```
</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
"http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
  <link rel="shortlink" href="/node/66" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <title>The MIT License (MIT) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_xE-rWrJf-
```

```

fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2ATB4XKGEvmoUk_p62PwI-
o2aW47EqqS0nD2dmPZoV4.css" media="all" />
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wi77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIVlbeEU.css" media="print"
/>

<!--[if lt IE 7]>
<link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?nfb7pm" media="all"
/>
<![endif]-->
<script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eowy_is9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//<!--
jQuery.extend(Drupal.settings,
{ "basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"meUjjBBfr6QFJv5kp0oKi152
l673C3xJMLGIQzbH9g0"},"js":{"misc\/jquery.js":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1},"css":{"modules\/s
ystem\/system.base.css":1,"modules\/system\/system.menus.css":1,"modules\/system\/system.messages.css":1,"mod
ules\/system\/system.theme.css":1,"modules\/aggregator\/aggregator.css":1,"modules\/comment\/comment.css":1,"m
odules\/field\/theme\/field.css":1,"sites\/all\/modules\/mollom\/mollom.css":1,"modules\/node\/node.css":1,"modules
\/search\/search.css":1,"modules\/user\/user.css":1,"themes\/garland\/style.css":1,"themes\/garland\/print.css":1,"the
mes\/garland\/fix-ie.css":1}}});
//--><![]]>
</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >
<div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>

<div id="wrapper">
  <div id="container" class="clearfix">

    <div id="header">
      <div id="logo-floater">
        <div id="branding"><strong><a href="">
          
          <span>Open Source Initiative</span>          </a></strong></div>
        </div>

      </div> <!-- /#header -->

      <div id="sidebar-first" class="sidebar">

```

```

    <div class="region region-sidebar-first">
    <div id="block-search-form" class="block block-search clearfix">

    <h2 class="title">Search this site:</h2>

    <div class="content">
    <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
    <div class="form-item form-type-textfield form-item-search-block-form">
    <label class="element-invisible" for="edit-search-block-form--2">Search </label>
    <input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2"
name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
    </div>
    <div class="form-actions form-wrapper" id="edit-actions"><input type="submit" id="edit-submit" name="op"
value="Search" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
MyBqFtDVdzOmaSnCHKIG9yhm0ofMr7fNMG5Vy76N_uk" />
    <input type="hidden" name="form_id" value="search_block_form" />
    </div>
    </div></form> </div>
    </div>
    <div id="block-system-navigation" class="block block-system block-menu clearfix">

    <h2 class="title">Navigation</h2>

    <div class="content">
    <ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About
the OSI</a></li>
    <li class="collapsed"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence">The
Open Source Definition</a></li>
    <li class="collapsed"><a href="/licenses">Open Source Licenses</a></li>
    <li class="leaf"><a href="/working_groups">Working Groups</a></li>
    <li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ</a></li>
    <li class="collapsed"><a href="/trademark" title="Information about trademark and logo usage">Trademark and
Logo Usage</a></li>
    <li class="collapsed"><a href="/osr-intro" title="Open Standards Requirement for Software">Open
Standards</a></li>
    <li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and
Activities">Open Source Education</a></li>
    <li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets
done">Mailing lists</a></li>
    <li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting
Help</a></li>
    <li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
    <li class="leaf"><a href="/members">OSI Individual Membership</a></li>
    <li class="leaf"><a href="/store">OSI Store</a></li>
    <li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership</a></li>

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<li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
<li class="leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
<li class="last leaf"><a href="/support">OSI Corporate Support</a></li>
</ul> </div>
</div>
</div>
  </div>

  <div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
  <h2 class="element-invisible">You are here</h2><div class="breadcrumb"><a href="/">Home</a></div>
  <a id="main-content"></a>
  <div id="tabs-wrapper" class="clearfix">                                <h1 class="with-tabs">The MIT License
(MIT)</h1>
                                </div>                                <div class="clearfix">
  <div class="region region-content">
  <div id="block-system-main" class="block block-system clearfix">

<div class="content">
  <div id="node-66" class="node node-page">

<div class="content clearfix">
  
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p>The MIT License (MIT)</p>
<p>Copyright (c) <year> <copyright holders></p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy<br />
of this software and associated documentation files (the "Software"), to deal<br />
in the Software without restriction, including without limitation the rights<br />
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AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER<br />
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,<br />
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN<br />
THE SOFTWARE.</p>
</div></div></div> </div>

```

```

<div class="clearfix">
  <div class="links"></div>

</div>

</div>
</div>
</div>
</div>
  </div>
    <div class="region region-footer">
      <div id="block-block-11" class="block block-block clearfix">

<div class="content">
  <p style="text-align:center">Help shape the future of the Open Source Initiative...<br /><a
href="http://osi.xwiki.com">visit and participate in the OSI wiki</a>.
</p>

<div>
<a href="https://twitter.com/OpenSourceOrg" class="twitter-follow-button" data-show-count="false" data-
lang="en">Follow @OpenSourceOrg</a>
<script>
<!--//--><![CDATA[// ><!--
!function(d,s,id){ var
js,fjs=d.getElementsByTagName(s)[0];if(!d.getElementById(id)){js=d.createElement(s);js.id=id;js.src="//platform.t
witter.com/widgets.js";fjs.parentNode.insertBefore(js,fjs);}(document,"script","twitter-wjs");
//--><![>
</script></div>

<p>
<!-- Creative Commons License --><a rel="license" href="http://creativecommons.org/licenses/by/4.0/"></a><br />Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International
License</a>.<!-- /Creative Commons License -->

<!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <Work rdf:about="">
    <license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
  </Work>
  <License rdf:about="http://creativecommons.org/licenses/by/3.0/"><permits
rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
rdf:resource="http://web.resource.org/cc/Distribution"/><requires
rdf:resource="http://web.resource.org/cc/Notice"/><requires
rdf:resource="http://web.resource.org/cc/Attribution"/><permits
rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>

```

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-->

| <a href=" ../ToS">Terms of Service</a>

</p>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">

<div class="content">
  <script src="http://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--

//--><!]]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script> </div>
</div>
</div>
  </div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->

  </div> <!-- /#container -->
</div> <!-- /#wrapper -->
</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
  <meta http-equiv="content-type"
content="text/html; charset=ISO-8859-1">
  <title>CDDL ver. 1.0</title>
  <meta name="author" content="Cliff Allen">
</head>
<body>
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0
1. <br>
<br>
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<br>
<br>

```


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```
</body>
</html>
<!DOCTYPE html>
<html>
<head>
<title>jsoup License</title>
<meta name="keywords" content="license, open source, mit">
<meta name="description" content="jsoup is licensed under the MIT open source license">
<link type="text/css" rel="stylesheet" href="/rez/style.css">
<script type="text/javascript">
  var _gaq = _gaq || [];
  _gaq.push(['_setAccount', 'UA-89734-10']);
  _gaq.push(['_setDomainName', 'jsoup.org']);
  _gaq.push(['_trackPageview']);

  (function() {
    var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
    ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
    var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
  })();
</script>
</head>
<body class="n1-">
<div class="wrap">
<div class="header">
<div class="nav-sections">
<ul>
<li class="n1-home"><h4><a href="/">jsoup</a></h4></li>
<li class="n1-news"><a href="/news/">News</a></li>
<li class="n1-bugs"><a href="/bugs">Bugs</a></li>
<li class="n1-discussion"><a href="/discussion">Discussion</a></li>
<li class="n1-download"><a href="/download">Download</a></li>
<li class="n1-api"><a href="/apidocs/">API Reference</a></li>
<li class="n1-cookbook"><a href="/cookbook/">Cookbook</a></li>
<li class="n1-try"><a href="http://try.jsoup.org/">Try jsoup</a></li>
</ul>
</div>
</div>
<div class="breadcrumb">
<a href="/">jsoup</a>
<span class="seperator">&raquo;</span> jsoup License
</div>
<div class="content">
```

```

<div class="col1">
  <h1>jsoup License</h1>
  <p>The jsoup code-base (include source and compiled packages) are distributed under the open source MIT
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  <h3>The MIT License</h3>
  <p>Copyright &copy; 2009 - 2014 <a href="http://jonathanhedley.com">Jonathan Hedley</a> (<a
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  <p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit
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FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p>
</div>
<!-- /col1 -->
<div class="col2">
</div>
<!-- /col2 -->
</div>
<!-- /content-->
<div class="footer">
  <b>jsoup HTML parser</b> &copy; 2009 - 2014
  <a href="http://jhy.io/" rel="author"><b>Jonathan Hedley</b></a>
</div>
</div>
<!-- /wrap -->
<script src="/rez/prettify.js"></script>
<script>prettyPrint();</script>
</body>
</html>

```

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org.apache.maven:maven-repository-metadata:jar:3.2.5

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Maven Settings (<http://maven.apache.org/ref/3.2.5/maven-settings>) org.apache.maven:maven-settings:jar:3.2.5
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Maven Settings Builder (<http://maven.apache.org/ref/3.2.5/maven-settings-builder>) org.apache.maven:maven-settings-builder:jar:3.2.5
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Aether Transport Wagon (<http://www.eclipse.org/aether/aether-transport-wagon/>) org.eclipse.aether:aether-transport-wagon:jar:1.0.0.v20140518

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Aether Utilities (<http://www.eclipse.org/aether/aether-util/>) org.eclipse.aether:aether-util:jar:1.0.0.v20140518

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org.eclipse.sisu.inject (<http://www.eclipse.org/sisu/org.eclipse.sisu.inject/>)

org.eclipse.sisu:org.eclipse.sisu.inject:eclipse-plugin:0.3.0.M1

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org.eclipse.sisu.plexus (<http://www.eclipse.org/sisu/org.eclipse.sisu.plexus/>)

org.eclipse.sisu:org.eclipse.sisu.plexus:eclipse-plugin:0.3.0.M1

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jsoup (<http://jsoup.org/>) org.jsoup:jsoup:jar:1.7.2

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SLF4J API Module (<http://www.slf4j.org>) org.slf4j:slf4j-api:jar:1.7.5

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Plexus Cipher: encryption/decryption Component (<http://spice.sonatype.org/plexus-cipher>)

org.sonatype.plexus:plexus-cipher:jar:1.7

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Plexus Security Dispatcher Component (<http://spice.sonatype.org/plexus-sec-dispatcher>)

org.sonatype.plexus:plexus-sec-dispatcher:jar:1.3

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1.531 wildfly-clustering-common 10.1.0.FINAL

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```
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-->

<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```

<parent>
  <groupId>org.wildfly</groupId>
  <artifactId>wildfly-clustering</artifactId>
  <version>10.1.0.Final</version>
</parent>

<artifactId>wildfly-clustering-common</artifactId>
<packaging>jar</packaging>

<name>WildFly: Common code for clustering subsystems</name>

<dependencies>
  <dependency>
    <groupId>org.wildfly</groupId>
    <artifactId>wildfly-clustering-service</artifactId>
  </dependency>
  <dependency>
    <groupId>org.wildfly</groupId>
    <artifactId>wildfly-naming</artifactId>
  </dependency>
  <dependency>
    <groupId>org.wildfly.core</groupId>
    <artifactId>wildfly-subsystem-test</artifactId>
    <type>pom</type>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>org.jboss.logging</groupId>
    <artifactId>jboss-logging-annotations</artifactId>
    <scope>provided</scope>
    <optional>true</optional>
  </dependency>
  <dependency>
    <groupId>org.jboss.logging</groupId>
    <artifactId>jboss-logging-processor</artifactId>
    <scope>provided</scope>
    <optional>true</optional>
  </dependency>
</dependencies>

<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>
      <executions>
        <execution>
          <goals>

```

```

        <goal>test-jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>
</project>

```

1.532 wildfly-clustering-singleton-api

10.1.0.FINAL

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```

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-->

<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <parent>
    <groupId>org.wildfly</groupId>
    <artifactId>wildfly-clustering-singleton</artifactId>
    <version>10.1.0.Final</version>
  </parent>

```

```

<artifactId>wildfly-clustering-singleton-api</artifactId>
<packaging>jar</packaging>

<name>WildFly: Singleton API</name>

<dependencies>
  <dependency>
    <groupId>org.wildfly</groupId>
    <artifactId>wildfly-clustering-api</artifactId>
  </dependency>
  <dependency>
    <groupId>org.wildfly</groupId>
    <artifactId>wildfly-clustering-service</artifactId>
  </dependency>
</dependencies>
</project>

```

1.533 wildfly-maven-plugin 1.0.2.FINAL

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```

<?xml version="1.0" encoding="UTF-8"?>
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~ 02110-1301 USA, or see the FSF site: http://www.fsf.org.
-->

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

```



```

<parent>
  <artifactId>jboss-parent</artifactId>
  <groupId>org.jboss</groupId>
  <version>14</version>
</parent>
<groupId>org.wildfly.plugins</groupId>
<artifactId>wildfly-maven-plugin</artifactId>
<version>1.0.2.Final</version>
<packaging>maven-plugin</packaging>
<name>WildFly Maven Plugin</name>

<description>A maven plugin that allows various management operations to be executed on WildFly Application
Server.</description>
<url>http://www.wildfly.org</url>

<issueManagement>
  <system>GitHub</system>
  <url>https://github.com/wildfly/wildfly-maven-plugin/issues</url>
</issueManagement>

<mailingLists>
  <mailingList>
    <name>JBoss User List</name>
    <subscribe>https://lists.jboss.org/mailman/listinfo/jboss-user</subscribe>
    <unsubscribe>https://lists.jboss.org/mailman/listinfo/jboss-user</unsubscribe>
    <archive>http://lists.jboss.org/pipermail/jboss-user/</archive>
  </mailingList>
  <mailingList>
    <name>WildFly Developer List</name>
    <subscribe>https://lists.jboss.org/mailman/listinfo/wildfly-dev</subscribe>
    <unsubscribe>https://lists.jboss.org/mailman/listinfo/wildfly-dev</unsubscribe>
    <archive>http://lists.jboss.org/pipermail/wildfly-dev/</archive>
  </mailingList>
</mailingLists>

<scm>
  <connection>scm:git://github.com/wildfly/wildfly-maven-plugin.git</connection>
  <developerConnection>scm:git:git@github.com:wildfly/wildfly-maven-plugin.git</developerConnection>
  <url>http://github.com/wildfly/wildfly-maven-plugin</url>
</scm>

<licenses>
  <license>
    <name>lgpl</name>
    <url>http://repository.jboss.org/licenses/lgpl-2.1.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

```

```

<properties>
  <!-- WildFly/JBoss dependencies -->
  <version.org.wildfly>8.1.0.Final</version.org.wildfly>
  <version.org.wildfly.dist>${version.org.wildfly}</version.org.wildfly.dist>
  <version.org.jboss.arquillian>1.0.3.Final</version.org.jboss.arquillian>

  <!-- maven dependencies -->
  <version.org.apache.maven.maven-plugin>2.2.1</version.org.apache.maven.maven-plugin>
  <version.org.apache.maven.maven-core>3.0.5</version.org.apache.maven.maven-core>
  <version.org.apache.maven.plugin-testing.maven-plugin-testing-harness>2.1
  </version.org.apache.maven.plugin-testing.maven-plugin-testing-harness>
  <version.org.apache.maven.plugin-tools>3.2</version.org.apache.maven.plugin-tools>
  <version.org.codehaus.plexus.plexus-utils>3.0.10</version.org.codehaus.plexus.plexus-utils>
  <version.org.eclipse.aether>0.9.0.M4</version.org.eclipse.aether>
  <version.org.jboss.jdf.stacks-client>1.0.2.Final</version.org.jboss.jdf.stacks-client>
  <version.org.sonatype.aether>1.13.1</version.org.sonatype.aether>

  <!-- other dependencies -->
  <version.junit.junit>4.11</version.junit.junit>
  <version.org.apache.commons.compress>1.5</version.org.apache.commons.compress>
  <version.org.mockito.mockito-all>1.9.0</version.org.mockito.mockito-all>

  <jboss.home>${project.build.directory}${file.separator}wildfly-${version.org.wildfly.dist}</jboss.home>

  <!-- plugin versions -->
  <version.dependency.plugin>2.8</version.dependency.plugin>
  <version.enforcer.plugin>1.3</version.enforcer.plugin>
  <version.plugin.plugin>3.2</version.plugin.plugin>
  <version.site.plugin>3.3</version.site.plugin>
  <version.org.codehaus.plexus.plexus-component-metadata>1.5.5
  </version.org.codehaus.plexus.plexus-component-metadata>

  <!-- checkstyle configuration -->
  <linkXRef>false</linkXRef>

  <!-- documentation properties -->
  <appServerName>WildFly</appServerName>
  <pluginPrefix>wildfly</pluginPrefix>
</properties>

<build>
  <plugins>
    <plugin>
      <artifactId>maven-site-plugin</artifactId>
      <configuration>
        <relativizeDecorationLinks>false</relativizeDecorationLinks>

```

```

    </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-plugin-plugin</artifactId>
  <configuration>
    <skipErrorNoDescriptorsFound>>true</skipErrorNoDescriptorsFound>
  </configuration>
  <executions>
    <execution>
      <id>mojo-descriptor</id>
      <goals>
        <goal>descriptor</goal>
      </goals>
    </execution>
    <execution>
      <id>help-goal</id>
      <goals>
        <goal>helpmojo</goal>
      </goals>
      <configuration>
        <helpPackageName>org.wildfly.plugin.generated</helpPackageName>
      </configuration>
    </execution>
  </executions>
</plugin>

<plugin>
  <artifactId>maven-dependency-plugin</artifactId>
  <executions>
    <execution>
      <id>unpack-wildfly</id>
      <phase>generate-test-resources</phase>
      <goals>
        <goal>unpack</goal>
      </goals>
      <configuration>
        <artifactItems>
          <artifactItem>
            <groupId>org.wildfly</groupId>
            <artifactId>wildfly-dist</artifactId>
            <version>${version.org.wildfly.dist}</version>
            <type>zip</type>
            <!-- overwrite to clean any previous deployments -->
            <overWrite>>true</overWrite>
            <outputDirectory>${project.build.directory}</outputDirectory>
          </artifactItem>
        </artifactItems>
      </configuration>
    </execution>
  </executions>
</plugin>

```

```

        </configuration>
    </execution>
</executions>
</plugin>

<plugin>
  <artifactId>maven-checkstyle-plugin</artifactId>
  <configuration>
    <configLocation>checkstyle.xml</configLocation>
    <consoleOutput>>true</consoleOutput>
    <failsOnError>>true</failsOnError>
    <useFile/>
  </configuration>
  <executions>
    <execution>
      <id>check-style</id>
      <phase>compile</phase>
      <goals>
        <goal>checkstyle</goal>
      </goals>
    </execution>
  </executions>
</plugin>

<plugin>
  <artifactId>maven-surefire-plugin</artifactId>
  <configuration>
    <redirectTestOutputToFile>true</redirectTestOutputToFile>
    <systemPropertyVariables>
      <java.util.logging.manager>org.jboss.logmanager.LogManager</java.util.logging.manager>
      <jboss.home>${jboss.home}</jboss.home>
      <wildfly.test.config.dir>
        ${project.build.testOutputDirectory}${file.separator}unit${file.separator}common
      </wildfly.test.config.dir>
    </systemPropertyVariables>
  </configuration>
</plugin>
<plugin>
  <groupId>org.codehaus.plexus</groupId>
  <artifactId>plexus-component-metadata</artifactId>
  <version>${version.org.codehaus.plexus.plexus-component-metadata}</version>
  <executions>
    <execution>
      <goals>
        <goal>generate-metadata</goal>
      </goals>
    </execution>
  </executions>

```

```

    </plugin>
  </plugins>
</build>

<reporting>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-plugin-plugin</artifactId>
      <version>${version.plugin.plugin}</version>
    </plugin>
  </plugins>
</reporting>

<dependencies>

  <dependency>
    <groupId>org.apache.commons</groupId>
    <artifactId>commons-compress</artifactId>
    <version>${version.org.apache.commons.compress}</version>
  </dependency>
  <dependency>
    <groupId>org.apache.maven</groupId>
    <artifactId>maven-core</artifactId>
    <version>${version.org.apache.maven.maven-core}</version>
  </dependency>
  <dependency>
    <groupId>org.apache.maven</groupId>
    <artifactId>maven-plugin-api</artifactId>
    <version>${version.org.apache.maven.maven-core}</version>
  </dependency>
  <!-- dependencies to annotations -->
  <dependency>
    <groupId>org.apache.maven.plugin-tools</groupId>
    <artifactId>maven-plugin-annotations</artifactId>
    <version>${version.org.apache.maven.plugin-tools}</version>
  </dependency>
  <!-- generated help mojo has a dependency to plexus-utils -->
  <dependency>
    <groupId>org.codehaus.plexus</groupId>
    <artifactId>plexus-utils</artifactId>
    <version>${version.org.codehaus.plexus.plexus-utils}</version>
  </dependency>
  <dependency>
    <groupId>org.eclipse.aether</groupId>
    <artifactId>aether-api</artifactId>
    <version>${version.org.eclipse.aether}</version>
    <scope>provided</scope>

```

```

    <!-- Used in maven 3.1.x -->
    <optional>true</optional>
</dependency>
<dependency>
  <groupId>org.jboss.jdf</groupId>
  <artifactId>stacks-client</artifactId>
  <version>${ version.org.jboss.jdf.stacks-client }</version>
</dependency>
<dependency>
  <groupId>org.wildfly</groupId>
  <artifactId>wildfly-cli</artifactId>
  <version>${ version.org.wildfly }</version>
  <exclusions>
    <exclusion>
      <groupId>org.jboss.logging</groupId>
      <artifactId>jboss-logging-processor</artifactId>
    </exclusion>
    <exclusion>
      <groupId>org.jboss.logmanager</groupId>
      <artifactId>jboss-logmanager</artifactId>
    </exclusion>
  </exclusions>
</dependency>
<dependency>
  <groupId>org.wildfly</groupId>
  <artifactId>wildfly-controller-client</artifactId>
  <version>${ version.org.wildfly }</version>
</dependency>
<!-- Seems to be needed as the controller client is transitively bringing it in -->
<dependency>
  <groupId>org.wildfly</groupId>
  <artifactId>wildfly-protocol</artifactId>
  <version>${ version.org.wildfly }</version>
</dependency>

<dependency>
  <groupId>org.sonatype.aether</groupId>
  <artifactId>aether-api</artifactId>
  <version>${ version.org.sonatype.aether }</version>
  <scope>provided</scope>
  <!-- Used in maven 3.0.x -->
  <optional>true</optional>
</dependency>
<dependency>
  <groupId>org.sonatype.aether</groupId>
  <artifactId>aether-util</artifactId>
  <version>${ version.org.sonatype.aether }</version>
  <scope>provided</scope>

```

```

    <!-- Used in maven 3.0.x -->
    <optional>true</optional>
</dependency>

<!-- Test dependencies -->
<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>${version.junit.junit}</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.apache.maven</groupId>
  <artifactId>maven-compat</artifactId>
  <version>${version.org.apache.maven.maven-core}</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.apache.maven</groupId>
  <artifactId>maven-settings-builder</artifactId>
  <version>${version.org.apache.maven.maven-core}</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.apache.maven.plugin-testing</groupId>
  <artifactId>maven-plugin-testing-harness</artifactId>
  <version>${version.org.apache.maven.plugin-testing.maven-plugin-testing-harness}</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.jboss.arquillian.junit</groupId>
  <artifactId>arquillian-junit-container</artifactId>
  <version>${version.org.jboss.arquillian}</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.wildfly</groupId>
  <artifactId>wildfly-arquillian-container-managed</artifactId>
  <version>${version.org.wildfly}</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.mockito</groupId>
  <artifactId>mockito-all</artifactId>
  <version>${version.org.mockito.mockito-all}</version>
  <scope>test</scope>
</dependency>

```

</dependencies>
</project>

1.534 wink-json4j 1.4-sources.jar

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1.535 xalan 2.7.1

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1.540 xz 5.2.3 :0

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=====

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1.541 yajl 2.0.3

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