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1.6 bash 4.3

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

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@end enumerate

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```
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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
@item
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.

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

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

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

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

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

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

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@end enumerate

@ifex
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@ifinfo
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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

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

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

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@end smallexample

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

@end 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

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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1.22 curl 7.51.0
1.22.1 Available under license:

License Mixing
================

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

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1.23 distutilscross 0.1

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1.24 dmidecode 2.12

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1.32 exabgp 3.4.13

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1.34 Ext2 Filesystems Utilities 1.38

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Theodore Ts'o
15-Mar-2003

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

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

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

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However, linking a "work that uses the Library" with the Library
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If such an object file uses only numerical parameters, data
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That's all there is to it!

1.35 EZdriver NP 4c, loadable kernel module
12.46a
1.35.1 Available under license:

Source code contains:

"MODULE_LICENSE("GPL");"

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1.39 gdb 6.3

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1.41 GitPython 0.3.1-beta2

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1.42 gittle 0.5.0
1.43 glib 1.3.5

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

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

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

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

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

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

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

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

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

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

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

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

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

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That's all there is to it!

1.44 glib2 2.46.2

1.44.1 Available under license:

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only
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   a) The modified work must itself be a software library.

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.46 glibc 2.2.4

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a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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1.64 libcap 1.10

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1.66 libedit 2.1

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1.68 libevent 1.3e

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1.70 libffi 3.2.1

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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"
                shift 1
                ;;
            *)
                # 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
                ;;
            esac
        esac
    esac
esac

Open Source Used In StarOS Release 21.3
# instead of erroring out.
case $1 in
  -O3)
    args="$args -O2"
    ;;
  *)
    args="$args $1"
    ;;
esac
opt="true"
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 '/^\([/[^=]*/\)*]=.*\)/g')" 
  value="$(echo $1|sed '/^\([/[^=]*/\)*]=.*\)/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 $2)"
  if [ -n "$single" ]; then
    output="-Fo$2"
  else
    output="-Fe$2"
  fi

  base="$base"|sed 's\/\s\[\^\]*//g')"
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 $0} /D9002/ {error=1} END{exit error}\\' >&2 \"
result=$?
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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%
% 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 \textinfoversion]:}

% 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 \textinfoversion]}%
  \catcode`+=\active \catcode`_\textinfoversion =\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\ptexgrtr=>
\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=\slash
\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. %
\if\inputlineno\thisisundefined
\let\linenumber = \empty % Pre-3.0.
\else
\def\linenumber{l.\the\inputlineno:\space}
\fi

% Set up fixed words for English if not already set.
\if\putwordAppendix\undefined \gdef\putwordAppendix{Appendix}\fi
\if\putwordChapter\undefined \gdef\putwordChapter{Chapter}\fi
\if\putworderror\undefined \gdef\putworderror{error}\fi
\if\putwordfile\undefined \gdef\putwordfile{file}\fi
\if\putwordin\undefined \gdef\putwordin{in}\fi
\if\putwordIndexIsEmpty\undefined \gdef\putwordIndexIsEmpty{(Index is empty)}\fi
% Since the category of space is not known, we have to be careful.
% \chardef\spacecat = 10
% \def\spaceisspace{\catcode`\spacecat = 10}

% 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 = `?\n
\chardef\quoteChar= `'\n\chardef\semiChar = `;\n\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\gloggingall{%
\tracingstats2
\tracingpages1
\tracinglostchars2  % 2 gives us more in etex
\tracingparagraphs1
\tracingoutput1

Open Source Used In StarOS Release 21.3
\tracingmacros2
\tracingrestores1
\showboxbreadth\maxdimen \showboxdepth\maxdimen
\ifx\TeXversion\thisisundefined\else % etex gives us more logging
  \tracingscantokens1
  \tracingscifs1
  \tracinggroups1
  \tracingnesting2
  \tracingassigns1
\fi
\tracingcommands3 % 3 gives us more in etex
\errorcontextlines16
%
% @errormsg{MSG}.  Do the index-like expansions on MSG, but if things
% aren’t perfect, it’s not the end of the world, being an error message,
% after all.
%
def\errormsg{\begingroup \indexnofonts \doerrormsg}
def\doerrormsg#1{\errmessage{#1}}
%
% add check for \lastpenalty to plain’s definitions.  If the last thing
% we did was a \nobreak, we don’t want to insert more space.
%
def\smallbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\smallskipamount
    \removelastskip\penalty-50\smallskip\fi\fi}
def\medbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\medskipamount
    \removelastskip\penalty-100\medskip\fi\fi}
def\bigbreak{\ifnum\lastpenalty<10000\par\ifdim\lastskip<\bigskipamount
    \removelastskip\penalty-200\bigskip\fi\fi}
%
% Do @cropmarks to get crop marks.
%
def\ifcropmarks
  \let\cropmarks = \cropmarkstrue
%
% Dimensions to add cropmarks at corners.
% Added by P. A. MacKay, 12 Nov. 1986
%
def\outerhsize \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 \fi
  \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}%
%
%
% 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
  \vtop to0pt{%
    \line{\ewtop\hfil\ewtop}%
    \nointerlineskip
    \line{%
      \vbox{\moveleft\cornerthick\nstop}%
      \hfill
      \vbox{\moveright\cornerthick\nstop}%
    }%
  }
  \vss}\vskip\topandbottommargin
}
% 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#2\ArgTerm}
\def\argremovec#1\c#2\ArgTerm{
\argcheckspaces#1\^^M\ArgTerm}
\def\argcheckspaces#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{...}`
%\tis 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\obeyspace{ }`

% 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 \leavevmode \penalty \@M \).
\gdef\unsepspaces{\let =\space}
%
\def\flushcr{\ifx\par\lisppar \def\next##1{\relax} \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 (@ifex, @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}％
 \ifeq\thisenv\temp
 \else
 \badenverr
 \fi
}
%
% Environment mismatch, #1 expected:
\def\badenverr{％}
\errhelp = \EMsimple
\errmessage{This command can appear only \environment\temp,
not \
environment\thisenv} %
}
def\inenvironment#1 { %
\if\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.
% @frenchspacing on|off says whether to put extra space after punctuation.
% \def\onword{on}
% \def\offword{off}
% \parseargdef\frenchspacing{%
% \def\temp{#1}%
% \ifx\temp\onword \plainfrenchspacing
% \else\ifx\temp\offword \plainnonfrenchspacing
% \else
% \errhelp = \EMsimple
% \errmessage{Unknown @frenchspacing option `\temp', must be on|off}%
% \fi}
%
% \@w prevents a word break. Without the \leavevmode, \@w at the
% beginning of a paragraph, when \TeX{} is still in vertical mode, would
% produce a whole line of output instead of starting the paragraph.
% \def\w#1{\leavevmode\hbox{#1}}
%
% @group ... @end group forces ... to be all on one page, by enclosing
% it in a \TeX{} vbox. We use \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 \TeX{}book), 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
errmsg[@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 \isppar.
\global\dimen1 = \prevdepth
\egroup % End the \vtop.
\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.
  \vtop to #1\mil{\strut\vfil}%
%
% TeX does not even consider page breaks if a penalty added to the
% main vertical list is 10000 or more. But in order to see if the
% empty box we just added fits on the page, we must make it consider
% page breaks. On the other hand, we don't want to actually break the
% page after the empty box. So we use a penalty of 9999.
%
% There is an extremely small chance that TeX will actually break the
% page at this \penalty, if there are no other feasible breakpoints in
% sight. (If the user is using lots of big @group commands, which
% almost-but-not-quite fill up a page, TeX will have a hard time doing
% good page breaking, for example.) However, I could not construct an
% example where a page broke at this \penalty; if it happens in a real
% document, then we can reconsider our strategy.
\penalty9999
%
% Back up by the size of the box, whether we did a page break or not.
\kern -#1\mil
%
% Do not allow a page break right after this kern.
\nobreak
\fi
}

% @br   forces paragraph break (and is undocumented).

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

% @exdent text....
% outputs text on separate line in roman font, starting at standard page margin
%
% This records the amount of indent in the innermost environment.
% That's how much \exdent should take out.
\newskip\exdentamount

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

% This defn is used inside nofill environments such as @example.
\parseargdef\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}

% \doinmargin{WHICH}{TEXT}
% (if RIGHT-TEXT is given, use TEXT for left page, RIGHT-TEXT for right;
% else use TEXT for both).
%
\def\inmargin#1\{\begininmargin #1.,\endinmargin\}
\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
%
% not perfect, but better than nothing.
% @| 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.
%
% @| inserts a changebar to the left of the current line. It should
%
% @| 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
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%
%}%\}%\%
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% vertical list for the beginning and end of each change). This command
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% vertical list for the beginning and end of each change). This command
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% vertical list for the beginning and end of each change). This command
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% vertical list for the beginning and end of each change). This command
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% vertical list for the beginning and end of each change). This command
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% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
%
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% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
%
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% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
%
%}%\}%\%
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% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
%
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% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
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% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
%
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% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
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% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
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% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
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% vertical list for the beginning and end of each change). This command
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% vertical list for the beginning and end of each change). This command
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% vertical list for the beginning and end of each change). This command
% is not documented, not supported, and doesn't work.
%
%}%\}%\%
% 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.
%}
% @include FILE -- \input text of FILE.
% 
\def\include{\parasearch\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.}}
%

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\def\thisfile{ }

% @center line
% outputs that line, centered.
%
\parseargdef\center{%
  \ifhmode
    \let\center\centerH
  \else
    \let\center\centerV
  \fi
  \center{\hfil \ignorespaces #1 \unskip \hfil} %
  \let\center\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
  \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.
% \
defasisword{asis} % no translation, these are keywords
\ndefnoneword{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
\everypar
}%
%
\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
  \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}\edef\thiscolor{\maincolor}\def\lastcolordefs{}}
\%
\def\maincolor{\rgbBlack}
\pdfsetcolor{\maincolor}
\edef\thiscolor{\maincolor}
\def\lastcolordefs{}
\%
\def\makefootline{\baselineskip24pt\line{\pdfsetcolor{\maincolor}\the\footline}}
\%
\def\makeheadline{\vbox to0pt{\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\vss}}
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\ifnum\pdfexerversion<13
#1.\pdfimgext
\else
 {#1.\pdfimgext}\
\fi
\ifnum\pdftexversion<14 \else
\pdrefximage \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}%
\xiescapepdf\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 \relax \fi}
\def\advancenumber#1{\tempnum=\expnumber{#1}\relax
\advance\tempnum by 1
\expandafter\xdef\csname#1\endcsname{\the\tempnum}}%
%
% #1 is the section text, which is what will be displayed in the
% outline by the pdf viewer. #2 is the pdf expression for the number
% of subentries (or empty, for subsubsections). #3 is the node text,
% which might be empty if this toc entry had no corresponding node.
% #4 is the page number
%
\def\dopdfoutline#1#2#3#4{%
% Generate a link to the node text if that exists; else, use the
% page number. We could generate a destination for the section
% text in the case where a section has no node, but it doesn't
% seem worth the trouble, since most documents are normally structured.
\def\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{\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 (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\[\lbracecharliteral]\def\]\rbracecharliteral\catcode`\=\active \otherbackslash
\input \tocreadfilename
\endgroup
%
\catcode`\^[\catcode`\^^2\catcode`\^=2
% The \otherbackslash\ other
\gdef\bracecharliteral[[]{\other \gdef\bracecharliteral[)]{\other
%
\def\skipspaces#1{\def\PP{#1}\def\D{|}%
% The \other \def\PP{#1}\def\D{|}%
% \addtokens{\filename}{\PP}%

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\let\next=\maketoks
\addtokens{\toksB}{\the\toksD}
\ifx\first,\addtokens{\toksB}{\space}\fi
\fi
\fi\fi\fi\fi\fi
\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
\selectfonts#1}{\csname #1fonts\endcsname \csname\curfontstyle\endcsname}
\def\rm{\fam=0 \setfontstyle{rm} }
\def\it{\fam=\itfam \setfontstyle{it} }
\def\sl{\fam=\slfam \setfontstyle{sl} }
\def\bf{\fam=\bffam \setfontstyle{bf} }\def\bfstylename{bf}
\def\tt{\fam=\ttfam \setfontstyle{tt} }
% Unfortunately, we have to override this for titles and the like, since % in those cases "rm" is bold. Sigh.
\def\rmisbold{\\rm\def\curfontstyle{bf} }

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% Texinfo sort of supports the sans serif font style, which plain TeX does not.
% So we set up a \sf.
\newfam\sffam
\def\sf{am=\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 \if\pdffontattr\thisisundefined \else
\begingroup
\catcode`^^M=3\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)
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/Ordering (OT1IT)
/Supplement 0
>> def
/CMapName /TeX-OT1IT-0 def
/CMapType 2 def
1 begincodespacerange
<00> <7F>
endcode spacerange
8 beginbfrange
<00> <01> <0393>
<09> <0A> <03A8>
<25> <26> <0025>
<2B> <3B> <0028>
<3F> <5B> <003F>
<5D> <5E> <005D>
<61> <7A> <0061>
<7B> <7C> <2013>
endcode bfrange
42 beginbfchar
<02> <0398>
<03> <039B>
<04> <039E>
<05> <03A0>
<06> <03A3>
<07> <03D2>
<08> <03A6>
<0B> <00660066>
<0C> <00660069>
<0D> <0066006C>
<0E> <0066006D0069>
<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>
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
derend
%%%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.
\def\cmap\gobble
%
% (end of cmaps)

% Use cm as the default font prefix.
% To specify the font prefix, you must define \fontprefix
% before you read in texinfo.tex.
\ifx\fontprefix\thisisundefined
\def\fontprefix{cm}
\fi
% Support font families that don't use the same naming scheme as CM.
\def\rmshape{r}
\def\rmbshape{bx}               % where the normal face is bold
\def\bfshape{b}
\def\bxbfshape{b}
\def\ttshape{tt}
\def\tttshape{tt}
\def\ttbshape{tt}
\def\ttsslshape{sltt}
\def\titsshape{ti}
\def\titsbshape{ti}
\def\bxtitshape{bxti}
\def\slshape{sl}
\def\sblshape{bsl}
\def\ssshape{ss}
\def\sbsshape{ss}
\def\cshape{ssc}
\def\csbshape{cs}

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% 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\ttslshape{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 \let\tenbf}
% \% 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}
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% Chapter fonts (14.4pt).
def\chapnominalsiz{14pt}
def\chaprm{\rmbshape{12}{1000}{OT1}}
def\chapit{\itbshape{10}{1000}{OT1IT}}
def\chapsl{\slbshape{10}{1000}{OT1}}
def\chaptt{\ttbshape{12}{1000}{OT1TT}}
def\chapttsl{\ttslshape{10}{1000}{OT1TT}}
def\chapsf{\sfbshape{12}{1000}{OT1}}
def\chapbf{\chaprm}
def\chapsc{\scbshape{10}{1000}{OT1}}
def\chapi=cmmi12
def\chapsy=cmsy10
def\chapecsize{1440}

% Section fonts (12pt).
def\secnominalsiz{12pt}
def\secrm{\rmbshape{12}{1000}{OT1}}
def\secit{\itbshape{10}{1000}{OT1IT}}
def\secsl{\slbshape{10}{1000}{OT1}}
def\sectt{\ttbshape{12}{1000}{OT1TT}}
def\secttsl{\ttslshape{10}{1000}{OT1TT}}
def\secsf{\sfbshape{12}{1000}{OT1}}
def\secbf{\secrm}
def\secsc{\scbshape{10}{1000}{OT1}}
def\seci=cmmi10
def\secsy=cmsy10
def\sececsize{1200}

% Subsection fonts (10pt).
def\ssecnominalsiz{10pt}
def\ssecrm{\rmbshape{10}{1000}{OT1}}
def\secit{\itbshape{10}{1000}{OT1IT}}
def\secsls\slbshape{10}{1000}{OT1}
def\sectts\ttbshape{10}{1000}{OT1TT}
def\secttsls\ttslshape{10}{1000}{OT1TT}
def\secsf{\sfbshape{10}{1000}{OT1}}
def\secbf{\ssecrm}
def\secsc{\scbshape{10}{1000}{OT1}}
def\seci=cmmi10
def\secsy=cmsy10
def\sececsiz{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}
\font\reducedi=cmmi9
\font\reducedsy=cmsy9
\def\reducedescsize{0900}
\divide\parskip by 2  % reduce space between paragraphs
\textleading = 12pt   % line spacing for 10pt CM
\textfonts            % reset the current fonts
\rm
}\ % end of 10pt text font size definitions, \definetextfontsizex

% We provide the user-level command
% @fonttextsize 10
% (or 11) to redefine the text font size. pt is assumed.
% \def\xword{11}
\def\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
\ife\xword\else \ife\xword\else\errhelp=\EMsimple
\iferrmessage[@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
\def\resetmathfonts{\textfont0=\tenrm \textfont1=\teni \textfont2=\tensy
\textfont\itfam=\tenit \textfont\slfam=\tensl \textfont\bffam=\tenbf
\textfont\ttfam=\tentt \textfont\sffam=\tensf}

% The font-changing commands redefine the meanings of \tenSTYLE, instead
% of just \STYLE. We do this because \STYLE needs to also set the
% current \fam for math mode. Our \STYLE (e.g., \rm) commands hardwire
% \tenSTYLE to set the current font.
%
% Each font-changing command also sets the names \ls (one size lower)
% and \llls (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\tentt\s=\texttt\s \let\tensf\s=\textsf\s \let\teni\s=\texti\s \let\tensy\s=\texty\s
\let\tenttsl\s=\tentt\ss \let\tensfs=\tensf\ss \let\tenis=\teni\ss \let\tensys=\tensy\ss
\resetmathfonts \setleading{\textleading}\}

\def\titlefonts{\let\tenrm=\titlerm \let\tenit=\titleit \let\tensl=\titlesl
\let\tenbf=\titlebf \let\tentt=\titlett \let\smallcaps=\titlesc
\let\tensf=\titlesf \let\teni=\titlei \let\tensy=\titlesy
\let\tentt\s=\titlett \let\tensf\s=\titlesf \let\teni\s=\titlei \let\tensy\s=\titlesy
\resetmathfonts \setleading{27\pt}\}

\def\chapfonts{\let\tenrm=\chaprm \let\tenit=\chapit \let\tensl=\chapsl
\let\tenbf=\chapbf \let\tentt=\chaptt \let\smallcaps=\chapsc
\let\tensf=\chapsf \let\teni=\chapi \let\tensy=\chapsy
\resetmathfonts \setleading{27\pt}\}

\def\secfonts{\let\tenrm=\secrm \let\tenit=\secit \let\tensl=\secsl
\let\tenbf=\secbf \let\tentt=\sectt \let\smallcaps=\secsc
\let\tensf=\secsf \let\teni=\seci \let\tensy=\secsy
\resetmathfonts \setleading{19\pt}\}
% Set the fonts to use with the @small... environments.
def\smallexamplefonts = \smallfonts

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

% Set up the default fonts, so we can use them for creating boxes.
% \definetextfontsizexi

\message{markup,}

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

% Markup style infrastructure. \def\markupstylesetup\INITMACRO will
% define and register \INITMACRO to be called on markup style changes.
% \INITMACRO can check \currentmarkupstyle for the innermost
% style and the set of \ifmarkupSTYLE switches for all styles
% currently in effect.
\newif\ifmarkupvar
\newif\ifmarkupsamp
\newif\ifmarkupkey
%\newif\ifmarkupfile % @file == @samp.
%\newif\ifmarkupoption % @option == @samp.
\newif\ifmarkupcode
\newif\ifmarkupkbd
%\newif\ifmarkupenv % @env == @code.
%\newif\ifmarkupcommand % @command == @code.
\newif\ifmarkuptex
%\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.
\def\markupstylesetup\markupsetuplq{%
  \expandafter\let\expandafter\temp\csname markupsetuplq\currentmarkupstyle\endcsname
  \ifx\temp\relax\markupsetuplqdefault\else\temp\fi
}
\def\markupstylesetup\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}
%
%
}%
\def\markupsetuplqcode \markupsetcodequoteleft
\let\markupsetuprqcode \markupsetcodequoteright
%
\def\markupsetuplqexample \markupsetcodequoteleft
\let\markupsetuprqexample \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{%
\ifdef\temp{#1}{%
\ifx\temp\onword
\expandafter\let\csname SETtxicodequoteundirected\endcsname=t%
\else
\expandafter\let\csname SETtxicodequoteundirected\endcsname=f%
\fi
%}
\expandafter\let\csname SETtxicodequoteundirected\endcsname
  \relax
\else
  \errhelp = \ EMS\texttt{simple}
  \errmessage{Unknown \texttt{codequoteundirected} value \texttt{`temp'}, must be on|off}\
\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 = \ EMS\texttt{simple}
    \errmessage{Unknown \texttt{codequotebacktick} value \texttt{`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}\
    \else
      {{#1#2}\futurelet\next\smartitaliccorrection}\
    \fi
  }
  \def\smartslanted{\dosmartslant\sl}
  \def\smartitalic{\dosmartslant\it}
%
% Output an italic correction unless \next (presumed to be the following
% character) is such as not to need one.
  \def\smartitaliccorrection{%
    \ifx\next,%
    \else\ifx\next-%
    \else\ifx\next,%

\else\texttt{slash}\fi
\aftersmartic
\}

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

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

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

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

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

% @sansserif, explicit sans.
\def\sansserif#1{\texttt{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\tt#1{\% \tt \rawbackslash \plainfrenchspacing #1} \null
}

% @samp. \def\samp#1{{\setupmarkupstyle{samp}\lq\ttclose{#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\ttclose#1{\% \% Change normal interword space to be same as for the current font. \spaceskip = \fontdimen2\font \% \% Switch to typewriter. \tt \% \% But \lq \rq produces the large typewriter interword space. \def\ \{\{\spaceskip = \ Opt\}\} \% \% Turn off hyphenation. \nohyphenation \% \rawbackslash \plainfrenchslash \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=\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}

\parseargdeff\allowcodebreaks{%
  \def\txiarg{#1}%
  \ifx\txiarg\keywordtrue
    \allowcodebreakstrue
  \else\ifx\txiarg\keywordfalse
    \allowcodebreaksfalse
  \else
    \errhelp = \EMsimple
    \errmessage{Unknown @allowcodebreaks option \string\txiarg', must be true|false}%
  \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 \texttt{(\texttt{#1})} % DVI: 2nd arg given, show both it and url
      \fi
  \fi
\endgroup}
\begin{itemize}
\item \texttt{#1}% only url given, so show it
\item \texttt{\fi}
\end{itemize}
\endgroup

% This \urefbreak definition is the active one.
def\urefbreak{\begingroup \urefcatcodes \dourefbreak}
def\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\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}%
\if\txiarg\wordnone
\def\urefprebreak{\nobreak}\def\urefpostbreak{\nobreak}
\else\if\txiarg\wordbefore
\def\urefprebreak{\allowbreak}\def\urefpostbreak{\nobreak}
\else\if\txiarg\wordafter
\def\urefprebreak{\nobreak}\def\urefpostbreak{\allowbreak}
\else
\errhelp = \EMsimple
\errmessage{Unknown \urefbreakstyle setting `\txiarg'}%

\def\wordafter{after}
\def\wordbefore{before}
\def\wordnone{none}

% @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\angleleft{tt #1}\angleright
% \def\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 tssl only inside of @example and friends),
% or `code' (@kbd uses normal tty font always).
% \parsearg\def\kbdinputstyle{%
% \def\txiarg{#1}{%
% \if\txiarg\worddistinct
% \gdef\kbdexamplefont{ttsl}\gdef\kbdfont{ttsl}\%
% \else\if\txiarg\wordexample
% \gdef\kbdexamplefont{ttsl}\gdef\kbdfont{tt}\%
% \else\if\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\kbdsub\look??par}}

\def\xkey\{\key\}
\def\kbdsub#1#2#3??par{\%\
  \def\one{#1}\def\three{#3}\def\threex{??}\%
  \ifx\one\xkey\ifx\threex\three \key{#2}\%
  \else{\tclose{\kbdfont\setupmarkupstyle{kbd}\look}}\fi
  \else{\tclose{\kbdfont\setupmarkupstyle{kbd}\look}}\fi
\}

% definition of @key that produces a lozenge. Doesn't adjust to text size.
%\setfont\keyrm\textshape{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}
\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\size #1}\%
\def\temp{#2}\%\n\ifx\temp\empty \else\n\space (\unsepspaces \ignorespaces \temp \unskip)\%
\fi\n\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}\%\n\ifx\temp\empty \else\n\space (\unsepspaces \ignorespaces \temp \unskip)\%
\fi\n\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
\def\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{\tex\mathunderscore\let\=\mathbackslash\mathactive\% make the texinfo accent commands work in math mode\let^=\ptexhat\let<\=\ptexless\let>\=\ptexgtr\let+=\ptexplus\let’\=\ptexquiteright}
\def\finishmath#1{#1$endgroup}$
\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’ = \ptexquiteright}
}

% ctrl is no longer a Texinfo command, but leave this definition for fun.
\def\ctrl #1{{\tt \rawbackslash \hat}#1}
% @inlinefmt{FMTNAME,PROCESSED-TEXT} and @inlineraw{FMTNAME,RAW-TEXT}.
% Ignore unless FMTNAME == tex; then it is like @iftex and @tex,
% except specified as a normal braced arg, so no newlines to worry about.
% \def\outfmtnametex{tex}
% \long\def\inlinefmt#1{\doinlinefmt #1,\finish}
% \long\def\doinlinefmt#1,#2,\finish{\def\inlinefmtname{#1} \ifx\inlinefmtname\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\doinlinerawtwo#1,#2,\finish{\def\inlinerawname{#1} \ifx\inlinerawname\outfmtnametex \ignorespaces #2\fi \endgroup}
\message{glyphs,}
% and logos.
% @@ prints an @, as does @atchar{}.
\def\@{\char64 }
\let\atchar=\@
% @ [ @ ] @bracechar{} @rbracechar{} all generate brace characters.
% Unless we're in typewriter, use \ecfont because the CM text fonts do
% not have braces, and we don't want to switch into math.
\def\mylbrace{{\ifmonospace\else\ecfont\fi \char123}}
\def\myrbrace{{\ifmonospace\else\ecfont\fi \char125}}
\let\{=\mylbrace \let\lbracechar=\{
\let\}=\myrbrace \let\rbracechar=}\}
% 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
\begin{verbatim}
\gdef!bracecmd\{
\gdef!rbracecmd\}
\gdef!braceatcmd[@{]
\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
\def\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}

% 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 }
\edef\LaTeX{}% @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).
\end{verbatim}
\setbox0=\hbox{T} \vbox to \ht0{\hbox{\ifx\textnominalsize\xwordpt % for 10pt running text, \llsiz (8pt) is too small for the A in LaTeX. \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} \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 \}} \def\@enddots{}{\hskip 0pt plus1fil .\hskip 0pt plus1fil .\hskip 0pt plus.5fil \}} % @enddots{} is an end-of-sentence ellipsis. % 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 \}}%
% Since these characters are used in examples, they should be an even number of
% \tt widths. Each \tt character is 1en, so two makes it 1em.
%
% \def\point{$\star$}
% \def\arrow{$\rightarrow$}
% \def\result{$\Rightarrow$}
% \def\expansion{$\mapsto$}
% \def\print{$\dashv$}
% \def\equiv{$\equiv$}
%
% The \@error{} command.
% Adapted from the TeXbook's \boxit.
%
\newbox\errorbox
%
{\tentt \global\dimen0 = 3em}% Width of the box.
\dimen2 = .55pt % Thickness of rules
% The text. (`r' is open on the right, `e' somewhat less so on the left.)
\setbox0 = \hbox{\kern-.75pt \reducedsf \putworderror\kern-1.5pt}
%
\setbox\errorbox=\hbox to \dimen0{\hfil
\hsize = \dimen0 \advance\hsize by -5.8pt % Space to left+right.
\advance\hsize by -2\dimen2 % Rules.
\hbox{%
 \hrule height\dimen2
 \vbox{\vrule width\dimen2 \kern3pt % Space to left of text.
 \vtop{\kern2.4pt \box0 \kern2.4pt}}% Space above/below.
 \vrule width\dimen2 % Space to right.
 \hrule height\dimen2
 \hfil}
%
\def\error{\leavevmode\lower.7ex\copy\errorbox}
%
\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\eurosize{\csname\curfontsize nominalsize\endcsname}%
  \ifx\curfontstyle\bfstylename
    % bold:
    \font\thiseurofont = \ifusingit{feybo10}{feybr10} at \eurosize
  \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\aogonek
\else\ifx\temp\macrocharE\Eogonek
\else\ifx\temp\macrochare\eogonek
\else
\ecfont \setbox0=\hbox{#1}%
\ifdim\ht0=1ex\accent"0C #1%
\else\ooalign{\unhbox0\crcr\hidewidth\char"0C \hidewidth}%
\fi
\fi
\fi
\fi
}\%}
\def\Aogonek{{\ecfont \char"81}}\def\macrocharA{A}
\def\aogonek{{\ecfont \char"A1}}\def\macrochara{a}
\def\Eogonek{{\ecfont \char"86}}\def\macrocharE{E}
\def\eogonek{{\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.
% First the title page. Must do @settitle before @titlepage.
\newif\iffirstauthor
\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 \textfonts
% Leave some space at the very top of the page.
\vglue\titlepagetopglue
% No rule at page bottom unless we print one at the top with @title.
\finishedtitlepagetrue
%
% Most title ``pages'' are actually two pages long, with space
% at the top of the second. We don't want the ragged left on the second.
\let\oldpage = \page
\def\page{%
\iffinishedtitlepagetrue\else
\shorttitlepage
\fi
\let\page = \oldpage
\page
\null
}%
}

\def\Etitlepage{%
\iffinishedtitlepagetrue\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
%\par
\parseargdef\title{%
% \checkenv\titlepage
% \vbox{\titlefonts \raggedtitlesettings \par}
% \% print a rule at the page bottom also.
% \finishedtitlepagefalse
% \vskip4pt \hrule height 4pt width \hsize \vskip4pt
% }

%\parseargdef\subtitle{%
% \checkenv\titlepage
% \{\subtitlefont \rightline{\par}
% }

% @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{\par}
% \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
\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\vsize by -12pt
}

parseargdef\everyfooting{%oddfootingxxx\#1\evenfootingxxx\#1\%}

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

\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}%
}%
\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 = \chappoddpage }
\let\contentsalignmacro = \chappager
\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\HEADINGShook=\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 = \chapoddpage}\}\\\def\HEADINGSsingleafter{\let\HEADINGShook=\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 \textit{txi-??}.\tex\ file has set \% up a different format (e.g., \textit{txi-cs}.\tex\ does this).\\%\if\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\\% \texttt{@settitle line...} specifies the title of the document, for headings.
\% It generates no output of its own.
\def\histitle{\putwordNoTitle}
\def\settitle{\parsearg{\gdef\histitle}}

\message{\table,}
\% Tables -- @table, @table, @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, @table, 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{%
\def\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 \nenvironment\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
\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'.
%
\def\enumeratey #1 #2\endenumeratey{%
\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.)
\ifnum\lccode\expandafter`\thearg=0\relax
\numericenumerate % a number (we hope)
\else
% It's a letter.
\ifnum\lccode\expandafter`\thearg=\expandafter`\thearg\relax
\lowercaseenumerate % lowercase letter
\else
\uppercaseenumerate % uppercase letter
\fi
\fi
\else
% Multiple tokens in the argument. We hope it's a number.
\numericenumerate
\fi
}
% An @enumerate whose labels are integers. The starting integer is
% given in \thearg.
%
\def\numericenumerate{%
  \itemno = \thearg
  \startenumeration{\the\itemno}
}

% 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}}
% @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
item Many paragraphs of text may be used in any column.

They will wrap at the width determined by the template.
item 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}\%\def\firstarg{#1}\%
  \ifx\firstarg\xendsetuptable
    \let\go = \relax
  \else

\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 \cr aka
% \endtemplate) expanding \doitemize.
\def\item{\cr}%
%
\tolerance=9500
\hbadness=9500
\setmultitablespacing
\parskip=\multitableparskip
\parindent=\multitableparindent
\overfullrule=0pt
\global\colcount=0
%
\everycr = {%
\noalign{%
\global\everytab={}%
\global\colcount=0 % Reset the column counter.
% Check for saved footnotes, etc.
\checkinserts
%
% Keeps underfull box messages off when table breaks over pages.
%\filbreak
%
% Maybe so, but it also creates really weird page breaks when the
% table breaks over pages. Wouldn't \vfil be better? Wait until the
% problem manifests itself, so it can be fixed for real --karl.
}%
\}%
%
\parsearg\domultitable
}
\def\domultitable#1{%
% To parse everything between @multitable and @item:
\setuptable#1 \endsetuptable
%
% This preamble sets up a generic column definition, which will
% be used as many times as user calls for columns.
% \vtop will set a single line and will also let text wrap and
% continue for many paragraphs if desired.
\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##
\multistrut
\cr
\def\Emultitable{%
\cr
\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, @ifnothtml, @ifnotinfo, @ifnotplaintext,
% @ifnotxml always succeed. They currently do nothing; we don't 
% attempt to check whether the conditionals are properly nested. But we
% have to remember that they are conditionals, so that @end doesn't
% attempt to close an environment group.
% \def\makecond#1{%
\expandafter\let\csname #1\endcsname = \relax
\expandafter\let\csname iscond.#1\endcsname = 1
}
\makecond{iftex}
\makecond{ifnotdocbook}
\makecond{ifnothtml}
\makecond{ifnotinfo}
\makecond{ifnotplaintext}
\makecond{ifnotxml}
% Ignore @ignore, @ifhtml, @ifinfo, and the like.
% \def\direntry{\doignore{direntry}}
\def\documentdescription{\doignore{documentdescription}}
\def\docbook{\doignore{docbook}}
\def\html{\doignore{html}}
\def\ifdocbook{\doignore{ifdocbook}}

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\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 %
%
\def\dodoignore#1{%
  % #1 contains the command name as a string, e.g., `ifinfo'.
  % Define a command to find the next `@end #1'.
  \long\def\doignoretext#1^^M@end #1{% 
    \doignoretextyy#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\doignoretextyy#1^^M@#1#2\_STOP_\{\doignoreyy[#2]\_STOP_}\%
  % And now expand that command.
  \doignoretext ^^M%
\makevalueexpandable
\def\temp{#2}\
\edef\next{\global\let\csname SET#1\endcsname=\relax}\
\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\next{#1}}%
}

% @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).
%
\expandafter\ifx\csname SET#1\endcsname\relax
  \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.
%
\makecond{ifset}
\def\ifset{\parsearg{\doifset{\let\next=\ifsetfail}}}
\def\doifset#1#2{\%
  \makevalueexpandable
  \let\next=\empty
  \expandafter\ifx\csname SET#2\endcsname\relax
    #1% If not set, redefine \next.
  \fi
  \expandafter
}\next
}
\def\ifsetfail{\doignore{ifset}}

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

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

\let\next=\empty
\expandafter\if\csname #2\endcsname\relax
#1% If not defined, \let\next as above.
\fi
\expandafter
}%next
\def\ifcmddefinedfail{\doignore{ifcommanddefined}}
% @ifcommandnotdefined CMD ... handled similar to @ifclear above.
\makecond{ifcommandnotdefined}
\def\ifcommandnotdefined{\
\parsearg{\doifcmddefined{\else \let\next=\ifcmdnotdefinedfail}}}\}
\def\ifcmdnotdefinedfail{\doignore{ifcommandnotdefined}}

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

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

% @defininfoenclose.
\let\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 @$#index
\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.
\% \def\synindex#1 #2 {
\% \def\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 \if\csname dosenindex\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#2endcsname=dosenindex\endcsname = 1
\% \fi
\% redefine \fooindex:
\% \expandafter\xdef\csname#2index\endcsname{\noexpand#1[#3]}%}
% Define \doindex, the driver for all \fooindex macros.
% Argument #1 is generated by the calling \fooindex macro,
% and it is "foo", the name of the index.

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

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

\def\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}@\{#1\}}

% Take care of Texinfo commands that can appear in an index entry.
% Since there are some commands we want to expand, and others we don't,
% we have to laboriously prevent expansion for those that we don't.
%
\def\indexdummies{%
\escapechar = `\     % use backslash in output files.
\def\@{@}% change to @@ when we switch to @ as escape char in index files.
\def\ \{\realbackslash\space }%  
%
% Need these unexpandable (because we define \tt as a dummy)
% definitions when @\{ or @\} appear in index entry text.  Also, more
% complicated, when \text is in effect and \{ is a \delimiter again.
% We can't use \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.
\commodummies
{}

% 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.
\commodummies\otherbackslash
{}

% Called from \indexdummies and \atdummies.
%
\def\commodummies{%
%
% \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
% 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{^}%
}
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\definedummyword{\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).

\definedummyword{\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.
%\def\tt=\asis
%
\def\{ { }
\def\@{ @ }
\def\_{ \normalunderscore }
\def\-{ \normalunderscore }
% @- shouldn't affect sorting
%
% Unfortunately, texindex is not prepared to handle braces in the content at all. So for index sorting, we map @ { and @ } to strings starting with |, since that ASCII character is between ASCII { and }.
\def\{|{\|a} %
\def\bracechar{|a} %
%
% Non-English letters.
\def\AA{AA}%
\def\AE{AE}%
\def\DH{DZZ}%
\def\L{L}%
\def\OE{OE}%
\def\O{O}%
\def\TH{ZZZ}%
\def\aa{aa}%
\def\ae{ae}%
\def\dh{dzz}%
\def\exclamdown{!}%
\def\I{I}%
\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{-|}%
% 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
\macrolist

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

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

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

% Workhorse for all \fooindexes.
% #1 is name of index, #2 is stuff to put there, #3 is subentry --
% empty if called from \doind, as we usually are (the main exception
% is with most defuns, which call us directly).
%
\def\dosubind#1#2#3{%
\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
%
def\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\indexbackslashcurfont{\indexbackslash}% \indexbackslash isn't defined now
% so it will be output as is; and it will print as backslash.
%
% Process the index entry with all font commands turned off, to
% get the string to sort by.
{\indexnofonts
\edef\temp{\the\toks0}% need full expansion
\edef\indexsorttmp{\temp}%
}%
%
% Set up the complete index entry, with both the sort key and
% the original text, including any font commands. We write
% three arguments to \entry to the .?? file (four in the
% subentry case), texindex reduces to two when writing the .??s
% sorted result.
\edef\temp{%
\write\writeto{%
\string\entry{\indexsorttmp}{\noexpand\folio}{\the\toks0}}%
}%
\temp
%
% Take care of unwanted page breaks/skips around a whatsit:
%
% If a skip is the last thing on the list now, preserve it
% by backing up by \lastskip, doing the \write, then inserting
% the skip again. Otherwise, the whatsit generated by the
% write or \pdfdest will make \lastskip zero. The result is that
% sequences like this:
% @end defun
% @tindex whatever
% @defun ...
% will have extra space inserted, because the \medbreak in the
% start of the @defun won't see the skip inserted by the @end of
% the previous defun.
%
% But don't do any of this if we're not in vertical mode. We
% don't want to do a \vskip and prematurely end a paragraph.
%
% Avoid page breaks due to these extra skips, too.
%
% But wait, there is a catch there:
% We'll have to check whether \lastskip is zero skip. \ifdim is not
% sufficient for this purpose, as it ignores stretch and shrink parts
% of the skip. The only way seems to be to check the textual
% representation of the skip.
%
% The following is almost like \def\zeroskipmacro{0.0pt} except that
% the ``p'' and ``t'' characters have catcode \other, not 11 (letter).
% \edef\zeroskipmacro{\expandafter\the\csname z@skip\endcsname}
%
\newskip\whatsitskip
\newcount\whatsitpenalty
%
% ..., ready, GO:
%
\def\safewhatsit#1{\ifhmode
#1%
\else
% \lastskip and \lastpenalty cannot both be nonzero simultaneously.
\whatsitskip = \lastskip
\edef\lastskipmacro{\the\lastskip}%
\whatsitpenalty = \lastpenalty
%
% If \lastskip is nonzero, that means the last item was a
% skip. And since a skip is discardable, that means this
% \-\whatsitskip glue we're inserting is preceded by a
% non-discardable item, therefore it is not a potential
% breakpoint, therefore no \nobreak needed.
\ifx\lastskipmacro\zeroskipmacro
\else
\vskip-\whatsitskip

\fi

% #1
%
\ifx\lastskipmacro\zeroskipmacro
% If \lastskip was zero, perhaps the last item was a penalty, and
% perhaps it was \textgreater10000, e.g., a \nobreak. In that case, we want
% to re-insert the same penalty (values \textgreater10000 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
% 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).  
% 
% Parse args def printindex \begingroup \parserdef \printindex \begingroup
% \doubbreak \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
% These macros are used by the sorted index file itself.
% Change them to control the appearance of the index.

\def\initial#1{\%  
% Some minor font changes for the special characters.
\let\tentt=\sectt \let\ttt=\sectt \let\sf=\sectt 
%
% Remove any glue we may have, we'll be inserting our own.
\removelastskip 
%
% We like breaks before the index initials, so insert a bonus.
\nobreak 
\vskip 0pt plus 3\baselineskip 
\penalty 0 
\vskip 0pt plus -3\baselineskip 
%
% Typeset the initial. Making this add up to a whole number of 
% baselineskips increases the chance of the dots lining up from column 
% to column. It still won't often be perfect, because of the stretch 
% we need before each entry, but it's better. 
%
% No shrink because it confuses balancecolumns. 
\vskip 1.67\baselineskip 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{\unskip}\break
%
% Swallow the left brace of the text (first parameter):
\afterassignment\doentry
\let\temp =
}
\def\entrybreak{\unskip\space\ignorespaces}%
\def\doentry{%
\noindent % 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\%

% 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{$\mathsurround=0pt \mkern1.5mu.$}\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.
\end{doublecolumns}

\begin{minipage}{.5\textwidth}
% 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\doublecolumnhsize

\def\begindoublecolumns{%
% 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
%
% 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 \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=\ht0, target=\dimen@.}%
\splittopskip = \topskip
% Loop until we get a decent breakpoint.
{%
\vbadness = 10000
\loop
   \global\setbox3 = \copy0
   \global\setbox1 = \vsplit3 to \dimen@ %
   \divide\dimen@ by \ht3 > \dimen@ %
   \repeat
%\debug\message{split to \dimen@, column heights: \ht1, \ht3.}%
\setbox0 = \vbox to \dimen@ {\unvbox1}
\setbox2 = \vbox to \dimen@ {\unvbox3}
%
\pagesofar
}
\catcode`\@ = \other

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

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

\endgroup

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

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

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

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

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

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

% we only have subsub.
\chardef\maxseclevel = 3

% A numbered section within an unnumbered changes to unnumbered too.
% To achieve this, remember the "biggest" unnum. sec. we are currently in:
\chardef\unnlevel = \maxseclevel

% Trace whether the current chapter is an appendix or not:
% \chapheadtype is "N" or "A", unnumbered chapters are ignored.
\def\chapheadtype{N}

% Choose a heading macro
% #1 is heading type
% #2 is heading level
% #3 is text for heading
\def\genhead#1#2#3{%
% Compute the abs. sec. level:
\absseclevel=#2
% Make sure \absseclevel doesn't fall outside the range:
\ifnum \absseclevel < 0
  \absseclevel = 0
\else
  \ifnum \absseclevel > 3
    \absseclevel = 3
  \fi
\fi
% The heading type:
\def\headtype{#1}%
\if \headtype U%
  \ifnum \absseclevel < \unnlevel
    \chardef\unnlevel = \absseclevel
  \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
    \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
  \fi

\case{\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\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
}\resetallfloatnos
%
% 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}{\thechapno.\thesecno}%
}

% 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.\thesecno}%
}
\let\appendixsec\appendixsection

% normally calls unnumberedseczzz:
\outer\parseargdef\unnumberedsec{\unnmhead1{\#1}}
\def\unnumberedseczzz#1{%
  \global\subsecno=0 \global\subsubsecno=0 \global\advance\secno by 1
  \sectionheading[#1]{sec}{Ynothing}{\theunnumberedno.\thesecno}%
}

% Subsections.
%
% normally calls numberedsubseczzz:
\outer\parseargdef\numberedsubsec{\numhead2{\#1}}
\def\numberedsubseczzz#1{%
  \global\subsubsecno=0 \global\advance\subsecno by 1
  \sectionheading[#1]{subsec}{Ynumbered}{\thechapno.\thesecno.\thesubsecno}%
}

% normally calls appendixsubseczzz:
\outer\parseargdef\appendixsubsec{\apphead2{\#1}}
% 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
\let\subsubsubsection = \numberedsubsubsubsec
\let\majorheading = \numberedsec
\let\heading = \numberedsec
\let\subheading = \numberedsec
\let\unnumberedchapter = \appendixsec
\let\unnumberedsection = \appendixsubsec
\let\unnumberedsubsection = \appendixsubsubsec
\let\unnumberedsubsubsection = \appendixsubsubsubsec
\let\unnumberedmajorheading = \appendixsec
\let\unnumberedheading = \appendixsec
\let\unnumberedsubheading = \appendixsec

% 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 \chapoddpage, 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\chapoddpage{%
  \chappager
  \ifodd\pageno \else
    \begingroup
    \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 = \chapoddpage
\global\let\pchapsepmacro=\chapoddpage
\global\let\pagealignmacro=\chapoddpage
\global\def\HEADINGSon{\HEADINGSdouble}
}

\CHAPPAGon

% Chapter opening.
%
% #1 is the text, #2 is the section type (Ynumbered, Ynothing,
% Yappendix, Yomitfromtoc), #3 the chapter number.
%
% To test against our argument.
\def\Ynothingkeyword{Ynothing}
\def\Yomitfromtockeyword{Yomitfromtoc}
\def\Yappendixkeyword{Yappendix}
%
\def\chapmacro#1#2#3{%
% Insert the first mark before the heading break (see notes for \domark).
\let\prevchapterdefs=\lastchapterdefs
\let\prevsectiondefs=\lastsectiondefs
\gdef\lastsectiondefs{\gdef\thissectionname{}\gdef\thissectionnum{}%}
\gdef\thissection{}%
%
% \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{\thischaptername{}}%
\else\ifx\temptype\Yappendixkeyword
\toks0={#1}%
\def\lastchapterdefs{%

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% 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{%
\chapoddpage
vbox{\chapfonts \raggedtitlesettings #1\par} %
\nobreak\bigskip\nobreak
}
def\chfopen #1#2{\chapoddpage {\chapfonts
\vbox to 3in{\vfil \hbox to\hsize{\hfil #2} \hbox to\hsize{\hfil #1} \vfil}}%
\par\penalty 5000 %
}
def\centerchfopen #1{%
\chapoddpage
\vbox{\chapfonts \raggedtitlesettings \hfill #1\hfill}%
\nobreak\bigskip \nobreak
}
def\CHAPFopen {%
\global\let\chapmacro=\chfopen
\global\let\centerchapmacro=\centerchfopen

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

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

% Subsubsection titles.
\def\subsubsecheadingskip{\subsecheadingskip}
\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 \misbold
% \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
    \fi
  \fi
\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
\% 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.
% 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\empty\Ynothingkeyword
% \setbox0 = \hbox{}
% \def\toctype{unn}
% \gdef\lastsection{#1}
%\else\ifx\empty\Yomitfromtocketkeyword
% 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\empty\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 \ptexraggedright
% \hangindent=\wd0 % zero if no section number
% \unhbox0 #1}
}%
% Add extra space after the heading -- half of whatever came above it.
% Don't allow stretch, though.
\kern .5 \csname #2headingskip\endcsname
%
% Do not let the kern be a potential breakpoint, as it would be if it
% was followed by glue.
\nobreak
%
% We'll almost certainly start a paragraph next, so don't let that
% glue accumulate. (Not a breakpoint because it's preceded by a
% discardable item.) However, when a paragraph is not started next
% \(\text{\startdefun, \cartouche, \center, etc.}\), 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 \text{\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 \text{\chapter, etc.}
%
% Example usage: \text{\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 \text{@setfilename} (or
% any other fixed time) so that \text{@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{\% #1\#2\#3{\%
\edef\writetocentry#1#2#3{\%
\if\writetocentry\omitkeyword \else
\iftocfileopened\else

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% Tell \shipout to create a pdf destination on each page, if we're
% 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'.
% \fpdf\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
% \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
\ifeof 1
\readtocfile
\fi
\closein 1
\vfill \eject
\contentsalignmacro % in case @setchapternewpage odd is in effect
\endgroup
\lastnegativepageno = \pageno
\global\pageno = \savepageno
}
def\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.
% 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.)
\hbox to 1em{#1\hss}\
%
% These macros generate individual entries in the table of contents.
% The first argument is the chapter or section name.
% The last argument is the page number.
% The arguments in between are the chapter number, section number, ...
%
% Parts, in the main contents. Replace the part number, which doesn't
% exist, with an empty box. Let's hope all the numbers have the same width.
% Also ignore the page number, which is conventionally not printed.
\def\numeralbox{\setbox0=\hbox{8}\hbox to \wd0{\hfil}}
\def\partentry#1#2#3#4{\dochapentry{\numeralbox\labelspace#1}{}}
%
% Parts, in the short toc.
\def\shortpartentry#1#2#3#4{\penalty-300
\vskip.5\baselineskip plus.15\baselineskip minus.1\baselineskip
\shortchapentry{{\bf #1}}{\numeralbox}{\numeralbox}{}%}
%
% Chapters, in the main contents.
\def\numchapentry#1#2#3#4{\dochapentry{#2\labelspace#1}{#4}}
%
% Chapters, in the short toc.
% See comments in \dochapentry re vbox and related settings.
\def\shortchapentry#1#2#3#4{\tocentry{\shortchaplabel[#2]{\labelspace #1}}{\doshortpageno\bgroup\labelspace#4\egroup\bgroup}{}%}
%
% Appendices, in the main contents.
% Need the word Appendix, and a fixed-size box.
%
\def\appendixbox{\setbox0=\hbox{putwordAppendix()}\hbox to \wd0{putwordAppendix()}\hss}
\def\appentry#1#2#3#4{\dochapentry{\appendixbox{#2}\labelspace#1}{#4}}
%
% Unnumbered chapters.
\def\unnchapentry#1#2#3#4{\dochapentry{#1}{#4}}
\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 `*=9=\active \let=\tie
  \catcode `%=14
  \catcode `\=\other
  \catcode `\*=\other
  \catcode `\|=\other
  \catcode `\<=\other
  \catcode `\>=\other
  \catcode `\|=\other
  \catcode `\|=\other
  \catcode `\|=\other
  \catcode `\|=\other
  \catcode `\|=\other
  \catcode `\|=\other
  \catcode `\|=\other
  \catodechar=`\%
  %
  %^ 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\=\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. 
\num \lastpenalty=10000 \else 
\advance\envskipamount by \parskip 
\endgraf 
\ifdim\lastskip<\envskipamount

---

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\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.
\egroup
\kern3pt\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.
\def\setsmalldispenv{%  \if\SETdispenvsize\osmallword
  \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.
% \maketwodispenvdef[display] [%
  \nonfillstart
  \gobble
}\%

% @format/@smallformat: same as @display except don't narrow margins.
% \maketwodispenvdef[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 \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}
\def\quotationlabel#1{\def\temp{#1}\ifx\temp\empty \else \bf #1: \fi}
\makedispenvdef{indentedblock}{\indentedblockstart}
\def\indentedblockstart{\ifx\nonarrowing\relax \advance\leftskip by \lispnarrowing \exdentamount = \lispnarrowing}

% If we're given an argument, typeset it in bold with a colon after.
\def\quotationlabel#1{\ifx#1\empty \else \bf#1: \fi}
\makedispenvdef{indentedblock}{\indentedblockstart}
\def\indentedblockstart{\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\Esfallindentedblock{\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 '@verb x' command. --janneke@gnu.org
%
%
% [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\_\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\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{\hfil}}
\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\ucatcodespecials\sepspaces
}

% Setup for the @verbatim environment
%
% Real tab expansion.
\newdimen\tbody
\setbox0=\hbox{\tt\space} \tbody=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\egroup}
%
\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\tbody
\multiply\dimen\verbbox by\tbody % compute previous multiple of \tbody
\advance\dimen\verbbox by\tbody % advance to next multiple of \tbody
\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}%

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% Respect line breaks,
% print special symbols as themselves, and
% make each space count.
% Must do in this order:
\obeylines \uncatodespecials \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
}
\def\verbatim = \afterenvbreak

% @verbatiminclude FILE - insert text of file in verbatim environment.
% \verbatiminclude{filename\verbatiminclude\verbatiminclude}
% \verbatiminclude#1{%
% \makevalueexpandable
% \setupverbatim
% \indexnofonts % Allow `@@' and other weird things in file names.
% \wlog{texinfo.txt: 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
  \edefunpenalty=10003 % Will keep this \deffn together with the
  % following \def command, see below.
  \else
    % If there are two \def commands in a row, we'll have a \nobreak, %
    % which is there to keep the function description together with its %
    % header. But if there's nothing but headers, we need to allow a %
    % break somewhere. Check specifically for penalty 10002, inserted %
    % by \printdefunline, instead of 10000, since the sectioning %
    % commands also insert a nobreak penalty, and we don't want to allow %
    % a break between a section heading and a defun.
    %
    % As a further refinement, we avoid "club" headers by signalling %
    % with penalty of 10003 after the very first \deffn in the %
    % sequence (see above), and penalty of 10002 after any following %
    % \def command.
    \ifnum\lastpenalty=10002 \penalty2000 \else \defunpenalty=10002 \fi %
    % Similarly, after a section heading, do not allow a break.
    % But do insert the glue.
    \medskip % preceded by discardable penalty, so not a breakpoint
  \fi
  %
  \parindent=0in
  \advance\leftskip by \defbodyindent
  \exdentamount=\defbodyindent
  }

\def\dodefunx#1{ %
  % First, check whether we are in the right environment:
  \checkenv#1%
  %
  % As above, allow line break if we have multiple x headers in a row.
  % It's not a great place, though.
  \ifnum\lastpenalty=10002 \penalty3000 \else \defunpenalty=10002 \fi %
  % And now, it's time to reuse the body of the original defun:
  \expandafter\gobbledefun#1%
  }
\def\gobbledefun#1\startdefun{ }

% \printdefunline \deffnheader{text}
%
\def\printdefunline#1#2{ %
  \begingroup
    % call \deffnheader:

% 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 %
\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{\dodefunx#1} %
\def#3%
%
\newif\ifdoingtypefn % doing typed function?
\newif\ifdoctypefnnewline % typeset return type on its own line?

% @deftypeofnewline on|off says whether the return type of typed functions % are printed on their own line. This affects @deftypefn, @deftypefun, % @deftypeop, and @deftypemethod.
% \parseargdef\doctypefnnewline{ %
\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

\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\endheader{ %
\dosubind{fn}\{\code{\#3}\}\{\#1\}%
\defname{\#2}\{\#3\}\magicamp\defunargs{\#4\unskip}\%
}
\makedefun{deftypevar}{\deftypevrheader{\putwordDefvar} }
\makedefun{defmethod}{\defopon\putwordMethodon}
\makedefun{deftypemethod}{\deftypeopon\putwordMethodon}
\makedefun{defivar}{\defcvof\putwordInstanceVariableof}
\makedefun{deftypeivar}{\deftypecvof\putwordInstanceVariableof}

% \defname, which formats the name of the @def (not the args).
% #1 is the category, such as "Function".
% #2 is the return type, if any.
% #3 is the function name.
% We are followed by (but not passed) the arguments, if any.
% \def\defname#1#2#3{% 
\par
% Get the values of \leftskip and \rightskip as they were outside the @def...
\advance\leftskip by -\defbodyindent
%
% Determine if we are typesetting the return type of a typed function
% on a line by itself.
\rettypeownlinefalse

\ifdeftypefn % 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[\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.
\ifdeftypeownline
\advance\tempnum by 1
\def\maybeshapeline{0in \hsize}%
\else
\def\maybeshapeline{ }%

% 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& = \&

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

\newcount\parencount

% If we encounter &foo, then turn on ()-hacking afterwards
\newif\fampseen
\def\amprm#1 {\ampseentrue{\bf\&#1 } }

\def\parenfont{%
  % At the first level, print parens in roman,
  % otherwise use the default font.
  \ifnum \parencount=1 \rm \fi
  \else
  % The \sf parens (in \boldbrax) actually are a little bolder than
  % the contained text.  This is especially needed for [ and ] .
  \sf
  \fi
  \fi}
\def\infirstlevel#1{%
  \ifampseen
  \ifnum\parencount=1
  #1%
  \fi
  \fi
  \fi
  \edef\bfafterword#1 {#1 \bf}
\def\opnr{%
  \global\advance\parencount by 1
  \parenfont{\bfafterword}
  \infirstlevel \bfafterword
  }
\def\clnr{%
  \parenfont{\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
\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, \texttt{\scantokens},
\% which we arrange to emulate with a temporary file in ordinary TeX.
\if\eTeXversion\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`\eatspaces`\eatspaces
%
% Undo catcode changes of \texttt{\startcontents} and \texttt{\doprintindex}
% When called from \texttt{@insertcopying} or \texttt{(short)caption}, we need active
% backslash to get it printed correctly. Previously, we had
% \texttt{\catcode`\@=\other} instead. We'll see whether a problem appears
% with macro expansion.--kasal, 19aug04
\catcode`\@=0 \catcode`\/=\active \escapechar=`\@
%
% ... and for \texttt{\example}:
\spaceisspace
%
% The \texttt{\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 \texttt{\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
}

% Count of parameters
% Macro name
% 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} %}
\def\trim#1{\trim@@ @#1 @ #1 @ @@}
\def\trim@@ #1@ #2@ #3@@{\trim@@@ \empty #2 @}
\unbrace{\gdef\trim@@@ #1} #2@{#1}

% Trim a single trailing ^\^M off a string.
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
\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
\usembodybackslash
}

\def\macroargctxt{\% used when scanning invocations

\scanctxt
\catcode`\\=0
%
% why catcode 0 for \ in the above? To recognize \{ \} as "escapes"
% for the single characters \{ \}. Thus, we end up with the "commands"
% that would be written @\ @{ @} in a Texinfo document.
%
% We already have @[ and @]. For @\, we define it here, and only for
% this purpose, to produce a typewriter backslash (so, the @\ that we
% define for @math can't be used with @macro calls):
%
\def\normalbackslash{}
%
% We would like to do this for \, too, since that is what makeinfo does.
% But it is not possible, because Texinfo already has a command @, for a
% cedilla accent. Documents must use @comma{} instead.
%
% anythingelse will almost certainly be an error of some kind.

% \\mbbodybackslash 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#{\@csname macarg.#1@endcsname}
}
\expandafter\def\csname macarg.\endcsname{\realbackslash}
\def\margbackslash#1{\char`#1 }
\macro{\recursivefalse\parsearg\macroxxx}
\rmacro{\recursivetrue\parsearg\macroxxx}

\def\macroxxx#1{% 
\getargs{#1} % now \macname is the macname and \argl the arglist
\ifdef\argl{} % no arguments
\paramno=0\relax
\else
\expandafter\parsemargdef \argl;% 
\ifdef\paramno>256\relax
\ifdef\eTeXversion\thisisundefined
\errhelp = \EMsimple
\errmessage{You need eTeX to compile a file with macros with more than 256 arguments}
\fi
\fi

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 \bodybackslash (above).

We need to get `macro parameter char #` into several definitions.
The technique used is stolen from LaTeX: let `hash` be something
unexpandable, insert that wherever you need a #, and then redefine
it to # just before using the token list produced.

The same technique is used to protect \eatspaces till just before
the macro is used.

If there are 10 or more arguments, a different technique is used, where the
hook remains in the body, and when macro is to be expanded the body is
processed again to replace the arguments.

In that case, the hook is \the\toks N-1, and we simply set \toks N-1 to the
argument N value and then \def the body (nothing else will expand because of
the catcode regime underwhich the body was input).

If you compile with TeX (not eTeX), and you have macros with 10 or more
arguments, you need that no macro has more than 256 arguments, otherwise an
error is produced.
\def\parsemargdef#1;{
  \paramno=0\def\paramlist[]\%
  \let\hash\relax
  \let\eatspaces\relax
  \parsemargdefxxx#1,;,%

  In case that there are 10 or more arguments we parse again the arguments
  list to set new definitions for the \macarg.BLAH macros corresponding to
  each BLAH argument. It was anyhow needed to parse already once this list
  in order to count the arguments, and as macros with at most 9 arguments
  are by far more frequent than macro with 10 or more arguments, defining
  twice the \macarg.BLAH macros does not cost too much processing power.
  \ifnum\paramno<10\relax\else
    \paramno0\relax
    \parsemmanyargdef@@@#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
      \csname macarg.\tempb\endcsname\%
    \expandafter\edef\tempa
      {\noexpand\noexpand\noexpand\the\toks\the\paramno}\%
    \advance\paramno by 1\relax
  \fi\next\}

% These two commands read recursive and nonrecursive macro bodies. 
% (They’re different since rec and nonrec macros end differently.)
% 
\catcode `@=11\relax
\let\endargs@=\relax
\let\nil@=\relax
\def\nilm@{\nil@}\%
\long\def\nilm@{\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@@{\% \def\getargvals@@ (@ \iff\paramlist\nilm@ \% Some sanity check needed here that \argvaluelist is also empty. \iff\argvaluelist\nilm@ \else \errhelp = \EMsimple \errmsg{Too many arguments in macro `\macroname'!}% \fi \let\next\macargexpandinbody@ \else \iff\argvaluelist\nilm@ \% No more arguments values passed to macro. Set remaining named-arg \% macros to empty. \let\next\setemptyargvalues@ \else \iff\popcurrentargnameinto\@tempb \def\tempa\numexpr\#1\relax\% \expandafter\@tempa\expandafter{\paramlist}\% \iff\popcurrentargumentvalueinto\@tempc \def\tempa\numexpr\#1\relax\% \expandafter\@tempa\expandafter{\argvaluelist}\% \iff\Here \@tempb is the current arg name and \@tempc is the current arg value. \% First place the new argument macro definition into \@tempd \expandafter\@tempa\expandafter{\macname}\% \expandafter\let\csname macarg.\@tempb\endcsname\relax \expandafter\def\expandafter{\@tempe\expandafter{\@tempc}\expandafter{\argvaluelist}\% \expandafter\@tempa\expandafter{\@tempc}\expandafter{\\csname macarg.\@tempb\endcsname}\% \edef\tempd[\longdef\@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\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
% #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
%  \ifequ
%  \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{%
%      \expandafter\expandafter
%      \expandafter\xdef
%      \expandafter\expandafter
%      \expandafter\csname\the\macname xxx\endcsname
%      \paramlist{\egroup\noexpand\scanmacro{\temp}}%}
%  \else % 10 or more

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\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\relax{\aliasyyy #1\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{\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\wnode=\node
\let\lastnode=\empty

% Write a cross-reference definition for the current node. #1 is the % type (Ynumbered, Yappendix, Ynothing).
%
\def\donoderef#1{%  
  \ifx\lastnode\empty\else
    \setref{\lastnode}{#1}\
  \global\let\lastnode=\empty
  \fi
}%

% @anchor{NAME} -- define xref target at arbitrary point.
%
\newcount\savesfregister
\def\savesf{elax\ifhmode\savesfregister=\spacefactor\fi}
\def\restoresf{elax\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 \listoffloatss.
%
\def\setref#1#2{%  
  \pdfmkdest{#1}\
  \iflinks
    \atdummies % preserve commands, but don't expand them
    \edef\writexrdef{\@xrdef{#1-% #1 of \setref, expanded by the \edef

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\infonamobox
\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{\printeds\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 account of leading or trailing
% spaces in #1, which should be ignored.
\edef\pdfxrefdest{#1}%
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
\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
      \putwordSection@tie \char\the\appendixno.\the\secno.\the\subsecno
    \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
  \csname csname XR#1\endcsname
}\
\def\thisrefX{
  \ifx\thisrefX\relax
    % If not defined, say something at least.
    \angleleft un\-defined\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
    \if\havexrefs\else
      \global\warnedxrefsfalse
      \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
\catcode`\^=\other
\catcode`\*=\other
\catcode`\%=\other
\catcode`\+=\other
\catcode`\%=\other
\catcode`\%=\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
% \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
% \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
% \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
% \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
% \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
% \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:
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% \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:
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% \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:
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% \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
% \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
% \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
% \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
% \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
% \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
% \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
% \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.
%
% 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}\text{\textbackslash slas}h\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
% \parsetline) fails inside footnotes because the tokens are fixed when
% the footnote is read.  --karl, 16nov96.
%
\gdef\dofootnote{\%
  \insert\footins\bgroup
  \%
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  \%
\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\foot
%
}%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
  \let\checkinserts\relax
}
%
% 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{\if\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 \if\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 here\v
\fi\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
\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\bboxgroup
  \def\floattype{#1}%
  \def\floatlabel{#2}%
  \def\floatloc{#3}% we do nothing with this yet.
%
% 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}%
%}
% 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
%
  % \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
  \fi
}
% @caption, @shortcaption
%
\def\caption{\docaption\thiscaption}
\def\shortcaption{\docaption\thisshortcaption}
\def\docaption{\checkenv\float \bgroup\scanargctxt\deffcaption}
\def\deffcaption#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{%
  \ifeq#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}\%
% the floattype might have accents or other special characters,
% but we need to use it in a control sequence name.
\indexnofonts
\turnoffactive
\def\safefloattype{\floattype}\%
}%
%
% \xrd{floattype} saves the floats as a \do-list in \floatlist{SAFEFLOATTYPE}.
% \expandafter{\ifx\csname 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
% \def\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).
%
% Can't fully expand XR#1-lof because it can contain anything. Just
% pass the control sequence. On the other hand, XR#1-pg is just the
% page number, and we want to fully expand that so we can get a link
% in pdf output.
% \toksA = \expandafter{\csname XR#1-lof\endcsname}\%
% % use the same \entry macro we use to generate the TOC and index.
% \edef\writeentry{\noexpand\entry{\the\toksA}{\csname XR#1-pg\endcsname}}\%
% \writeentry
%
% \message{localization,}
% For single-language documents, @documentlanguage is usually given very early, just after @documentencoding. Single argument is the language (de) or locale (de_DE) abbreviation.
%
{
\catcode\_ = \active
\globaldefs=1
\parseargdef\documentlanguage\{begingroup
\let_=\normalunderscore  % normal _ character for filenames
\tex % read txi-??.tex file in plain TeX.
% Read the file by the name they passed if it exists.
\openin 1 txi-#1.tex
\ifeof 1
 \documentlanguagetrywithoutunderscore{#1}_finish\%
\else
 \globaldefs = 1  % everything in the txi-LL files needs to persist
 \input txi-#1.tex
 \fi
 \closein 1
\endgroup % end raw TeX
\endgroup}
%
% If they passed de_DE, and txi-de_DE.tex doesn't exist, try txi-de.tex.
%
\gdef\documentlanguagetrywithoutunderscore#1_#2\finish{%
\openin 1 txi-#1.tex
\ifeof 1
 \errhelp = \nolanghelp
 \errmessage{Cannot read language file txi-#1.tex}\%
\else
 \globaldefs = 1  % everything in the txi-LL files needs to persist
 \input txi-#1.tex
 \fi
 \closein 1
}
}% end of special _ catcode
%
\newhelp\nolanghelp{The given language definition file cannot be found or is empty. Maybe you need to install it? Putting it in the current directory should work if nowhere else does.}

% This macro is called from txi-??.tex files; the first argument is the language name to set (without the \lang@ prefix), the second and third args are \{left.right\}hyphenmin.
%
% The language names to pass are determined when the format is built.
% See the etex.log file created at that time, e.g.,
% /usr/local/texlive/2008/texmf-var/web2c/pdftex/etex.log.
%
% With TeX Live 2008, etex now includes hyphenation patterns for all
% available languages. This means we can support hyphenation in
% Texinfo, at least to some extent. (This still doesn't solve the
% accented characters problem.)
%
\catcode`@=11
\def\txisetlanguage#1#2#3{%
% do not set the language if the name is undefined in the current TeX.
\expandafter\ifx\csname lang@#1\endcsname \relax
  \message{no patterns for #1}%
\else
  \global\language = \csname lang@#1\endcsname
\fi
% but there is no harm in adjusting the hyphenmin values regardless.
\global\lefthyphenmin = #2\relax
\global\righthyphenmin = #3\relax
}

% Helpers for encodings.
% Set the catcode of characters 128 through 255 to the specified number.
%
\def\setnonasciicharscatcode#1{%
\count255=128
\loop\ifnum\count255<256
  \global\catcode\count255=#1\relax
  \advance\count255 by 1
  \repeat
}

\def\setnonasciicharscatcodenonglobal#1{%
\count255=128
\loop\ifnum\count255<256
  \catcode\count255=#1\relax
  \advance\count255 by 1
  \repeat
}

% @documentencoding sets the definition of non-ASCII characters
% according to the specified encoding.
%
\parseargdef\documentencoding{%
% Encoding being declared for the document.
\def\declaredencoding{\csname #1.enc\endcsname}%
% % Supported encodings: names converted to tokens in order to be able
% to compare them with \ifx.
def\ascii{\csname US-ASCII.enc\endcsname}%
def\latnine{\csname ISO-8859-15.enc\endcsname}%
def\latone{\csname ISO-8859-1.enc\endcsname}%
def\lattwo{\csname ISO-8859-2.enc\endcsname}%
def\utfeight{\csname UTF-8.enc\endcsname}%

% \ifx \declaredencoding \ascii
  \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\latsync\chardefs{%
\def\a0{\tie}
\def\a1{\exclamdown}
\def\a2{\missingcharmsg{CENT SIGN}}
\def\a3{\pounds}
\def\a4{\missingcharmsg{CURRENCY SIGN}}
\def\a5{\missingcharmsg{YEN SIGN}}
\def\a6{\missingcharmsg{BROKEN BAR}}
\def\a7{\S}
\def\a8{\^{}
\def\a9{\copyright}
\def\aa{\ordf}
\def\ab{\guillemetleft}
\def\ac{\$\lnot}\$
\def\ad{\-}
\def\ae{\registeredsymbol}
\def\af{\-=}
%
\def\b0{\textdegree}
\def\b1{\pm}
\def\b2{\^2}
\def\b3{\^3}
\def\b4{\'$\{}$
\def\b5{\mu}
\def\b6{\P}
%
\def\b7{\$.%}
\def\b8{\cedilla\ }
\def\b9{\^1$
\def\ba{\ordm}
%
\def\bb{\guillemetright}
\def\bc{\$\over4}\$
\def\bd{\$\over2\$}
\def\be{\$\over4}\$
\def\bf{\questiondown}
%
\def\c0{\^{}\A}
\def\c1{\^{}A}
\def\c2{\^{}A}
\def\c3{\^{\A}}
\def\c4{\^{\A}}
\def\c5{\ringaccent A}
\def\c6{\AE}
\def\c7{\cedilla C}
\def\c8{\ YE}
% 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{\VS}
\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}}
% 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}\% 
  \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
\catcode`\"=12
\catcode`\\=12
\catcode`\,=12
\catcode`\;=12
\catcode`\!=12
\catcode`\~=12
\gdef\DeclareUnicodeCharacter#1#2{%
  \countUTFz = "#1\relax
  \%\wlog{space\space defining Unicode char U+#1 (decimal \the\countUTFz)}%
  \begingroup
  \edef\UTFviiiTwoOctets##1##2{\csname u8:##1\string ##2\endcsname}%
  \edef\UTFviiiThreeOctets##1##2##3{\csname u8:##1\string ##2\string ##3\endcsname}%
  \edef\UTFviiiFourOctets##1##2##3##4{\csname u8:##1\string ##2\string ##3\string ##4\endcsname}%
  \expandafter\expandafter\expandafter\expandafter
  \gdef\UTFviiiTmp{#2}%
  \endgroup}
\gdef\parseXMLCharref{%
  \ifnum\countUTFz < "A0\relax
    \errhelp = \EMsimple
    \errmessage{Cannot define Unicode char value < 00A0}%
  \else\ifnum\countUTFz < "800\relax
    \parseUTFviiiA,%
    \parseUTFviiiB C\UTFviiiTwoOctets.,%
  \else\ifnum\countUTFz < "10000\relax
    \parseUTFviiiA;%
    \parseUTFviiiA,%
    \parseUTFviiiB E\UTFviiiThreeOctets.{,;}%
  \else
    \parseUTFviiiA;%
    \parseUTFviiiA,%
    \parseUTFviiiA!%
    \parseUTFviiiB F\UTFviiiFourOctets.{!,;}
  \fi\fi\fi
  \edef\UTFviiiTmp{#2}
}
\gdef\parseUTFviiiA#1{%
  \countUTFx = \countUTFz
  \divide\countUTFz by 64
  \countUTFy = \countUTFz
  \multiply\countUTFz by 64

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\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}{\?{down}}
\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}{\VE}
\DeclareUnicodeCharacter{00C9}{\VE}
\DeclareUnicodeCharacter{00CA}{\VE}
\DeclareUnicodeCharacter{00CB}{\VE}
\DeclareUnicodeCharacter{00CC}{\V{1}}
\DeclareUnicodeCharacter{00CD}{\V{1}}
\DeclareUnicodeCharacter{00CE}{\V{1}}
\DeclareUnicodeCharacter{00CF}{\V{1}}
\DeclareUnicodeCharacter{00D0}{\DH}
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% 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
% \hsize. 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\hsize
  \fi
}

% Parameters in order: 1) textheight; 2) textwidth;
% 3) voffset; 4) hoffset; 5) binding offset; 6) topskip;
% 7) physical page height; 8) physical page width.
%
% We also call \setleading{\textleading}, so the caller should define
% \textleading. The caller should also set \parskip.
%
\def\internalpagesizes#1#2#3#4#5#6#7#8{%
  \voffset = #3\relax
  \topskip = #6\relax
  \splittopskip = \topskip
  \vsize = #1\relax
  \advance\vsize by \topskip
  \outervsize = \vsize
  \advance\outervsize by 2\topandbottommargin
  \pageheight = \vsize
  \hspace = #2\relax
  \outerhsize = \hspace
  \advance\outerhsize by 0.5in
  \pagewidth = \hspace
  \normaloffset = #4\relax
  \bindingoffset = #5\relax
  \ifpdf
  \pdfpageheight #7\relax
  \pdfpagewidth #8\relax
  \fi
\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
  \{\offset{.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}\%
% Use @afourpaper to print on European A4 paper.
defafourpaper{%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.
defafivepaper{%globaldefs = 1
\parskip = 2pt plus 1pt minus 0.1pt
\textleading = 12.5pt
%
\internalpagesizes{160mm}{120mm} %
{\voffset}{\hoffset}%
{\bindingoffset}{8pt}%
{210mm}{148mm}%
\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_{{\leavemode \kern0.07em \vbox{\hrule width.3em height.1ex}\kern .07em}}
\let\realunder=_
% Subroutine for the previous macro.
\def_{{\leavemode \kern0.07em \vbox{\hrule width.3em height.1ex}\kern .07em}}
\catcode`\+=\active
\def+{{\tt \char 123}}
\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}\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.
@gdef@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. % the literal character `. % case the active - from code has slipped in.
@gdef@rawbackslash{[ @let-=@normaldash @}@let"=@normaldoublequote @let$=@normaldollar %$ font-lock fix @let+=@normalplus @let<=@normalless @let>=@normalgreater @let^=@normalcaret @let_=@normalunderscore @let|=@normalverticalbar @let~=@normaltilde

% Same as @turnoffactive except outputs \ as \tt\char`\\ \ instead of % the literal character `. Also revert - to its normal character, in
@markupsetuplqdefault
@markupsetuprqdefault
@unsepspaces
}
}

% Make _ and + \other characters, temporarily.
% This is canceled by @fixbackslash.
@otherifyactive

% If a .fmt file is being used, we don't want the `\input texinfo' to show up.
% That is what \eatinput is for; after that, the `\' should revert to printing
% a backslash.
%
@gdef @eatinput input texinfo{@fixbackslash}
@global @let \ = @eatinput

% On the other hand, perhaps the file did not have a `\input texinfo'. Then
% the first `\' in the file would cause an error. This macro tries to fix
% that, assuming it is called before the first `\' could plausibly occur.
% Also turn back on active characters that might appear in the input
% file name, in case not using a pre-dumped format.
%
@gdef @fixbackslash{%
@ifx \@eatinput @let \ = @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 txicodequoteundirected and
@c txicodequotebacktick work right in, e.g., @w { @code{‘foo’} }. If we
1.71 libjson 1.1.0

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```
$Id: COPYING,v 1.1 2004/04/27 01:30:28 dyang Exp $
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libnet

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1.73 **libnfsidmap 0.20**

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1.74 libpcap 0.9.3

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1.75 libsmi 0.2.17

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1.76 libsrtpt 1.4.4

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1.77 libtacplus 0.2a

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1.78 libusb 1.0.9

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* along with this program; if not, write to the Free Software
* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
1.81 Linux PAM 0.72

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1.82 lksctp-tools 1.0.6

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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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1.86 mksquashfs 4.3

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3. [3] Bernd Altmeyer <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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13. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel <kardel@ntp.org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig

30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications

31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port

32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver

33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

34. [37]Louis A. Mamakos <louie@ni.umich.edu> MD5-based authentication

35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance

37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

38. [41]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port

39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility

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42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

43. [47]Rob Neal <rNeal@ntpl.org> Bancomm refclock and config/parse code maintenance

44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo

47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port

50. [54]Michael Shields <shields@tembel.org> USNO clock driver

51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

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57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
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>>> icu4c-4.4.1

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

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1.116 python 2.3.3

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/
* This is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.

Written by: Philip Hazel <ph10@cam.ac.uk>

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******************************************************************

1.117 python 2.7
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A. HISTORY OF THE SOFTWARE
-----------------------------

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.122 scst 2.2.1

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1.134 sysvinit 2.78-4

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This is the Debian GNU/Linux prepackaged version of System V Init. Init was written by Miquel van Smoorenburg <miquels@drinkel.cistron.nl>.

This package was put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> has integrated debian support into the base package.

Changes:
29-January-1995 Bruce Perens <Bruce@Pixar.com>
   Added Debian GNU/Linux package maintenance system files.
25-February-1995 Ian Murdock <imurdock@debian.org>
   Finished integration of Sys V Init into the base system.
28-December-1995 Miquel van Smoorenburg <miquels@cistron.nl>
   Added debian support to sysvinit.
   For further changes see the ChangeLog file.

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1.136 TCP-Wrappers 7.6

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1.137 tcpdump 3.6.1

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1.138 TianoCore EFI-SHELL 1.00

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1.139 tinyproxy 1.8.3 :2004-08-10 Robert James Kaes

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1.14.0 trace-cmd 2.1.0

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1.141 traceroute_1.4a12 1.4a12

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1.142 ucd-snmp 4.2.2

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1.143 udev 090

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1.145 usbutils 006

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1.146 Userspace RCU 0.8.6
1.146.1 Available under license :
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Mathieu Desnoyers
September 3, 2012

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m4/ax_tls.m4
Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

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I (Mathieu Desnoyers) wrote the remainder of the code.

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Userspace RCU library licensing
Mathieu Desnoyers
September 3, 2012

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The library part is distributed under LGPLv2.1 or later. See lgpl-2.1.txt for license details. Refer to the individual file headers for details.

LGPL-compatible source code can statically use the library header using:

#define _LGPL_SOURCE
#include <urcu.h>

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uatomic/unknown.h
uatomic/generic.h
uatomic/sparc64.h
uatomic/arm.h
uatomic/ppc.h
uatomic/x86.h
uatomic.h
MIT/X11 (BSD like) license apply to:

- compiler.h
- arch/s390.h
- uatomic/alpha.h
- uatomic/mips.h
- uatomic/s390.h
- system.h

* GPLv2

Library test code is distributed under the GPLv2 license. See gpl-2.0.txt for license details. See headers of individual files under tests/ for details.

* GPLv3 (or later)

The following build-related macro is under GPLv3 (or later):

m4/ax_tls.m4

---

1.148 Userspace RCU/GPL3 Build scripts

1.148.1 Available under license:

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Version 3, 29 June 2007


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Userspace RCU library licensing
Mathieu Desnoyers
September 3, 2012

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- m4/ax_tls.m4

### 1.149 valgrind 3.8.1

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Version 2, June 1991

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1.158 zlib 1.2.7

1.158.1 Available under license:
interface of the ‘zlib’ general purpose compression library
version 1.2.7, May 2nd, 2012

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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1.159 Zlib 1.1.4

1.159.1 Available under license :
License attached
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.1.4, March 11th, 2002

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*/
1.160 zlib 1.2.3

1.160.1 Available under license:

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 * version 1.2.3, July 18th, 2005
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