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give any third party free (except for a nominal charge for the $\cos t$ of

distribution) a complete machine-readable copy of the corresponding

source code, to be distributed under the terms of Paragraphs 1 and 2 $\,$

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c. accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed

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Source code for a work means the preferred form of the work for ${\tt making}$

modifications to it. For an executable file, complete source code means all

the source code for all modules it contains; but, as a special exception, it

 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) +\left(1\right) \left(1\right) +\left(1\right) \left(1\right) +\left(1\right) +\left(1\right) \left(1\right) +\left(1\right) +\left(1\right) \left(1\right) +\left(1$

accompany the operating system on which the executable file runs, or for

standard header files or definitions files that accompany that operating $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use

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To do so, attach the following notices to the program. It is safest to attach

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

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

starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author Gnomovision comes with

ABSOLUTELY NO WARRANTY; for details type `show $\mbox{\ensuremath{w^{\prime}}.}$ This is free software, and you

are welcome to redistribute it under certain conditions; type `show $\ensuremath{\mathtt{c}}\xspace$ for

details.

The hypothetical commands `show w' and `show c' should show the appropriate parts

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something other than `show w' and `show c'; they could even be mouse-clicks or

menu items--whatever suits your program.

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sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers)

written by James Hacker.

, 1 April 1989 Ty Coon, President of Vice

That's all there is to it!

GNU General Public License v2.0 only

(jitterentropy-rngd-doc 1.0.8, libc6-pic 2.31, libjitterentropy-src 2.2.0, libn1-gen1-3-dev 3.7.0, libn1-route-3-dev 3.5.0, libproc 3.3.15, libproc 3.3.16)

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Version 2, June 1991

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forming a work based on the Program, and copy and distribute such modifications $\ensuremath{\mathsf{S}}$

or work under the terms of Section 1 above, provided that you also meet all of $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

these conditions:

a) You must cause the modified files to carry prominent notices stating

that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or

in part contains or is derived from the Program or any part thereof, to be

licensed as a whole at no charge to all third parties under the terms of $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

this License.

 $\,$ c) If the modified program normally reads commands interactively when run,

you must cause it, when started running for such interactive use in the

most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or

else, saying that you provide a warranty) and that users may redistribute

the program under these conditions, and telling the user how to view a copy $\ensuremath{\text{v}}$

of this License. (Exception: if the Program itself is interactive but does

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not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably

considered independent and separate works in themselves, then this License, and

its terms, do not apply to those sections when you distribute them as separate

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work based on the Program, the distribution of the whole must be on the terms of

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Thus, it is not the intent of this section to claim rights or contest your rights

to work written entirely by you; rather, the intent is to exercise the right to

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In addition, mere aggregation of another work not based on the Program with the $\ensuremath{\mathsf{E}}$

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code, which must be distributed under the terms of Sections 1 and 2 above

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performing source distribution, a complete machine-readable copy of the $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

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and 2 above on a medium customarily used for software interchange; or,

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The source code for a work means the preferred form of the work for making

modifications to it. For an executable work, complete source code means all the $\ensuremath{\mathsf{E}}$

source code for all modules it contains, plus any associated interface definition

files, plus the scripts used to control compilation and installation of the

executable. However, as a special exception, the source code distributed need not

include anything that is normally distributed (in either source or binary form)

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on which the executable runs, unless that component itself accompanies the $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1$

executable.

If distribution of executable or object code is made by offering access to copy

from a designated place, then offering equivalent access to copy the source code

from the same place counts as distribution of the source code, even though third $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

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Version 2, June 1991

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be licensed as a whole at no charge to all third parties under the terms $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

of this License.

c. If the modified program normally reads commands interactively when run ,

you must cause it, when started running for such interactive use in the

most ordinary way, to print or display an announcement including an

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 $% \left(1\right) =\left(1\right) \left(1\right)$ the program under these conditions, and telling the user how to view a

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which is a work based on the Program, the distribution of the whole \mbox{must} be

on the terms of this License, whose permissions for other licensees extend to

the entire whole, and thus to each and every part regardless of who wrote it.

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- code, which must be distributed under the terms of Sections 1 and $\!\!\!\! 2$ above

on a medium customarily used for software interchange; or,

b. Accompany it with a written offer, valid for at least three years, to

give any third party, for a charge no more than your cost of physically $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) +\frac{1}{2}\left(\frac{1}{2}\right) +\frac{1$

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corresponding source code, to be distributed under the terms of Sections $\ \ \,$

1 and 2 above on a medium customarily used for software interchange; or,

c. Accompany it with the information you received as to the offer to $% \left(1\right) =\left(1\right) +\left(1\right) =\left(1\right) +\left(1\right$

distribute corresponding source code. (This alternative is allowed only $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) +\frac{1}{2}\left(\frac{1}{2}\right) +\frac{1$

 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right)$ for noncommercial distribution and only if you received the program in

object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making

modifications to it. For an executable work, complete source code means all

the source code for all modules it contains, plus any associated interface

definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source

code distributed need not include anything that is normally distributed (in

either source or binary form) with the major components (compiler, kernel,

and so on) of the operating system on which the executable runs, unless that $\ensuremath{\mathsf{S}}$

component itself accompanies the executable.

If distribution of executable or object code is made by offering access to

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Version 3, 29 June 2007

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is no warranty for this free software. For both users' and authors' sake, the $\ensuremath{\mathtt{GPL}}$

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not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This

is fundamentally incompatible with the aim of protecting users' freedom to change

the software. The systematic pattern of such abuse occurs in the area of products

for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for

those products. If such problems arise substantially in other domains, we stand

ready to extend this provision to those domains in future versions of the GPL, as

needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States $\ \ \,$

should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special

danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to

render the program non-free.

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

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O. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each

licensee is addressed as "you". "Licensees" and "recipients" may be individuals

or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a

fashion requiring copyright permission, other than the making of an exact copy.

The resulting work is called a "modified version" of the earlier work or a work

"based on" the earlier work.

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

To "propagate" a work means to do anything with it that, without permission,

would make you directly or secondarily liable for infringement under applicable

copyright law, except executing it on a computer or modifying a private copy.

Propagation includes copying, distribution (with or without modification), making

available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to

make or receive copies. Mere interaction with a user through a computer network, $\$

with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent

that it includes a convenient and prominently visible feature that (1) displays

an appropriate copyright notice, and (2) tells the user that there is no warranty

for the work (except to the extent that warranties are provided), that licensees $\frac{1}{2}$

may convey the work under this License, and how to view a copy of this License.

If the interface presents a list of user commands or options, such as a menu, $\ensuremath{\mathsf{a}}$

prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making

modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard

defined by a recognized standards body, or, in the case of interfaces specified

for a particular programming language, one that is widely used among developers $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

working in that language.

The "System Libraries" of an executable work include anything, other than the

work as a whole, that (a) is included in the normal form of packaging a ${\tt Major}$

Component, but which is not part of that Major Component, and (b) serves only to

enable use of the work with that Major Component, or to implement a Standard

Interface for which an implementation is available to the public in source code

form. A "Major Component", in this context, means a major essential component

(kernel, window system, and so on) of the specific operating system (if any) on

which the executable work runs, or a compiler used to produce the work, or an $\ensuremath{\mathsf{e}}$

object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source

code needed to generate, install, and (for an executable work) run the object

code and to modify the work, including scripts to control those activities.

However, it does not include the work's System Libraries, or general-purpose

tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example,

Corresponding Source includes interface definition files associated with source

files for the work, and the source code for shared libraries and dynamically

linked subprograms that the work is specifically designed to require, such as by

intimate data communication or control flow between those subprograms and other

parts of the work.

The Corresponding Source need not include anything that users can regenerate $\ensuremath{\mathsf{C}}$

automatically from other parts of the Corresponding Source.

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

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material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions

stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

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

No covered work shall be deemed part of an effective technological measure under $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

any applicable law fulfilling obligations under article 11 of the WIPO copyright

treaty adopted on 20 December 1996, or similar laws prohibiting or restricting

circumvention of such measures.

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of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left(\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left($

disclaim any intention to limit operation or modification of the work as a means

of enforcing, against the work's users, your or third parties' legal rights to

forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in

any medium, provided that you conspicuously and appropriately publish on each

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

offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it

from the Program, in the form of source code under the terms of section 4,

provided that you also meet all of these conditions:

 * a) The work must carry prominent notices stating that you modified it, and

giving a relevant date.

* b) The work must carry prominent notices stating that it is released under

this License and any conditions added under section 7. This requirement

modifies the requirement in section 4 to "keep intact all notices".

* c) You must license the entire work, as a whole, under this License to anyone

who comes into possession of a copy. This License will therefore apply, along

with any applicable section 7 additional terms, to the whole of the work, and

all its parts, regardless of how they are packaged. This License gives no

permission to license the work in any other way, but it does not invalidate

such permission if you have separately received it.

 * d) If the work has interactive user interfaces, each must display Appropriate

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A compilation of a covered work with other separate and independent works, which

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6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections $\boldsymbol{4}$

and 5, provided that you also convey the machine-readable Corresponding Source $\$

under the terms of this License, in one of these ways:

* a) Convey the object code in, or embodied in, a physical product (including a

physical distribution medium), accompanied by the Corresponding Source fixed $\ensuremath{\mathsf{Source}}$

on a durable physical medium customarily used for software interchange.

* b) Convey the object code in, or embodied in, a physical product (including a

physical distribution medium), accompanied by a written offer, valid for at

least three years and valid for as long as you offer spare parts or $\operatorname{customer}$

support for that product model, to give anyone who possesses the object code

either (1) a copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your

reasonable cost of physically performing this conveying of source, or (2)

access to copy the Corresponding Source from a network server at no charge.

 $\ \ ^{\star}$ c) Convey individual copies of the object code with a copy of the written

offer to provide the Corresponding Source. This alternative is allowed only

occasionally and noncommercially, and only if you received the object code

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

* d) Convey the object code by offering access from a designated place (gratis

or for a charge), and offer equivalent access to the Corresponding Source in $% \left(1\right) =\left(1\right) +\left(1\right$

the same way through the same place at no further charge. You need not

require recipients to copy the Corresponding Source along with the object

code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third

party) that supports equivalent copying facilities, provided you maintain

clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding

Source, you remain obligated to ensure that it is available for as long as

needed to satisfy these requirements.

* e) Convey the object code using peer-to-peer transmission, provided

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.

A separable portion of the object code, whose source code is excluded from the

Corresponding Source as a System Library, need not be included in conveying the object code work.

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resolved in favor of coverage. For a particular product received by a particular

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regardless of the status of the particular user or of the way in which the

particular user actually uses, or expects or is expected to use, the product. A

product is a consumer product regardless of whether the product has substantial

commercial, industrial or non-consumer uses, unless such uses represent the only

significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures,

authorization keys, or other information required to install and execute modified

versions of a covered work in that User Product from a modified version of its

Corresponding Source. The information must suffice to ensure that the continued $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

functioning of the modified object code is in no case prevented or interfered

with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically

for use in, a User Product, and the conveying occurs as part of a transaction in

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characterized), the Corresponding Source conveyed under this section must be

accompanied by the Installation Information. But this requirement does not apply

if neither you nor any third party retains the ability to install modified object

code on the User Product (for example, the work has been installed in ${\tt ROM}$).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a

work that has been modified or installed by the recipient, or for the $\ensuremath{\mathsf{User}}$

Product in which it has been modified or installed. Access to a network may be

denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication

across the network.

Corresponding Source conveyed, and Installation Information provided, in accord

with this section must be in a format that is publicly documented (and with an $\$

implementation available to the public in source code form), and must require no

special password or key for unpacking, reading or copying.

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If you add terms to a covered work in accord with this section, you must place,

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those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a

separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

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You are not required to accept this License in order to receive or run a copy of

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consequence of using peer-to-peer transmission to receive a copy likewise does

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copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a

license from the original licensors, to run, modify and propagate that work,

subject to this License. You are not responsible for enforcing compliance by

third parties with this License.

An "entity transaction" is a transaction transferring control of an organization,

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software, and you are welcome to redistribute it under certain conditions;

type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts

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the version number 2.1.]

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and change it. By contrast, the GNU General Public Licenses are intended to

guarantee your freedom to share and change free software--to make sure the $\,$

software is free for all its users.

This license, the Lesser General Public License, applies to some specially

designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we

suggest you first think carefully about whether this license or the ordinary

General Public License is the better strategy to use in any particular case,

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Our General Public Licenses are designed to make sure that you have the freedom $\,$

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the software and use pieces of it in new free programs; and that you are informed

that you can do these things.

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.

We protect your rights with a two-step method: (1) we copyright the library, and

(2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no

warranty for the free library. Also, if the library is modified by someone else

and passed on, the recipients should know that what they have is not the original $\ensuremath{\mathsf{N}}$

version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free

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users of a free program by obtaining a restrictive license from a patent holder.

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applies to certain designated libraries, and is quite different from the ordinary

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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 ${\tt C}$ Library in non-free programs enables many

more people to use the whole GNU operating system, as well as its variant, the $\,$

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Although the Lesser General Public License is Less protective of the users'

freedom, it does ensure that the user of a program that is linked with the

Library has the freedom and the wherewithal to run that program using a modified

version of the Library.

The precise terms and conditions for copying, distribution and modification

follow. Pay close attention to the difference between a "work based on the

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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 $\operatorname{modifications}$

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"Source code" for a work means the preferred form of the work for making

modifications to it. For a library, complete source code means all the source

code for all modules it contains, plus any associated interface definition files,

plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by

this License; they are outside its scope. The act of running a program using the

Library is not restricted, and output from such a program is covered only if its

contents constitute a work based on the Library (independent of the use of the $\ensuremath{\mathsf{Library}}$

Library in a tool for writing it). Whether that is true depends on what the

Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source

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absence of any warranty; and distribute a copy of this License along with the $\,$

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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:

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- b) You must cause the files modified to carry prominent notices stating

that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all

third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of

data to be supplied by an application program that uses the facility, other

than as an argument passed when the facility is invoked, then you must make

a good faith effort to ensure that, in the event an application does not

supply such function or table, the facility still operates, and performs

whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose

that is entirely well-defined independent of the application. Therefore, $\ensuremath{\mathsf{E}}$

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

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distribution of the whole must be on the terms of this License, whose

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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

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

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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

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

a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it,

under Section 2) in object code or executable form under the terms of Sections $\boldsymbol{1}$

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.

that uses the Library" with the Library to produce a work containing portions of

the Library, and distribute that work under terms of your choice, provided that

the terms permit modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is

used in it and that the Library and its use are covered by this License. You must

supply a copy of this License. If the work during execution displays copyright

notices, you must include the copyright notice for the Library among them, as

well as a reference directing the user to the copy of this License. Also, you

must do one of these things:

a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever changes were used in the

work (which must be distributed under Sections 1 and 2 above); and, if the $\ensuremath{\text{0}}$

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 $\ensuremath{\,^{\circ}}$

 $\mbox{{\tt modified}}$ executable containing the modified Library. (It is understood that

the user who changes the contents of definitions files in the Library will

 $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

definitions.)

b) Use a suitable shared library mechanism for linking with the Library. $\ensuremath{\mathtt{A}}$

suitable mechanism is one that (1) uses at run time a copy of the library $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) +\left(1\right) \left(1\right) +\left(1\right) +$

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

 $\mbox{\sc modified}$ 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 $\ensuremath{\text{s}}$

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 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($

materials from the same place.

e) Verify that the user has already received a copy of these materials or

that you have already sent this user a copy.

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

include any data and utility programs needed for reproducing the executable from

it. However, as a special exception, the materials to be distributed need not

include anything that is normally distributed (in either source or binary form)

with the major components (compiler, kernel, and so on) of the operating system

on which the executable runs, unless that component itself accompanies the $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1$

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 $\ensuremath{\mathsf{a}}$

executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not

covered by this License, and distribute such a combined library, provided

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 $% \left(1\right) =\left(1\right) +\left(1$

things:

a) Accompany the combined library with a copy of the same work based on the $\,$

Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of

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To apply these terms, attach the following notices to the library. It is safest

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and a pointer to where the full notice is found.

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

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that you receive source code or can get it if you want it; that you can change

the software and use pieces of it in new free programs; and that you are informed

that you can do these things.

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 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and

(2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no

warranty for the free library. Also, if the library is modified by someone else

and passed on, the recipients should know that what they have is not the original

version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free

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To achieve this, non-free programs must be allowed to use the library. A more

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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 ${\tt C}$ 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 $\operatorname{modified}$

version of the Library.

The precise terms and conditions for copying, distribution and $\operatorname{modification}$

follow. Pay close attention to the difference between a "work based on the $\ensuremath{\mathsf{I}}$

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 $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) +\frac{1}{2}\left(\frac{1}{2$

to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 ${\tt O.}$ 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 $\ensuremath{\mathsf{L}}$

Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source

code as you receive it, in any medium, provided that you conspicuously and

appropriately publish on each copy an appropriate copyright notice and disclaimer

of warranty; keep intact all the notices that refer to this License and to the

absence of any warranty; and distribute a copy of this License along with the $\,$

Library.

You may charge a fee for the physical act of transferring a copy, and you may at $\,$

your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

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 $\ensuremath{\mathsf{S}}$

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

 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) +\left(1\right) \left(1\right) +\left(1\right) +\left(1\right) \left(1\right) +\left(1\right) +\left($

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 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

this License.

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

instead of this License to a given copy of the Library. To do this, you must

alter all the notices that refer to this License, so that they refer to the

ordinary GNU General Public License, version 2, instead of to this License. (If a

newer version than version 2 of the ordinary GNU General Public License has

appeared, then you can specify that version instead if you wish.) Do not make any

other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so

the ordinary GNU General Public License applies to all subsequent copies and

derivative works made from that copy.

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

a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it,

under Section 2) in object code or executable form under the terms of Sections $\boldsymbol{1}$

and 2 above provided that you accompany it with the complete corresponding $% \left(1\right) =\left(1\right) +\left(1\right)$

machine-readable source code, which must be distributed under the terms of

Sections 1 and 2 above on a medium customarily used for software interchange.

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

the same place satisfies the requirement to distribute the source code, even

though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is

designed to work with the Library by being compiled or linked with it, is called

a "work that uses the Library". Such a work, in isolation, is not a derivative

work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an

executable that is a derivative of the Library (because it contains portions of

the Library), rather than a "work that uses the library". The executable is

therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part

of the Library, the object code for the work may be a derivative work of the

Library even though the source code is not. Whether this is true is especially

significant if the work can be linked without the Library, or if the work is

itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and

accessors, and small macros and small inline functions (ten lines or less in

length), then the use of the object file is unrestricted, regardless of whether

it is legally a derivative work. (Executables containing this object code plus

portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the

object code for the work under the terms of Section 6. Any executables containing

that work also fall under Section 6, whether or not they are linked directly with

the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work

that uses the Library" with the Library to produce a work containing portions of

the Library, and distribute that work under terms of your choice, provided that

the terms permit modification of the work for the customer's own use and reverse $\$

engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is

used in it and that the Library and its use are covered by this License. You must

supply a copy of this License. If the work during execution displays copyright

notices, you must include the copyright notice for the Library among them, as

well as a reference directing the user to the copy of this License. Also, you

must do one of these things:

a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever changes were used in the

work (which must be distributed under Sections 1 and 2 above); and, if the $\ensuremath{\mathsf{L}}$

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

 $\mbox{{\tt modified}}$ executable containing the modified Library. (It is understood that

the user who changes the contents of definitions files in the Library will

 $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

definitions.)

b) Use a suitable shared library mechanism for linking with the Library. $\ensuremath{\mathtt{A}}$

suitable mechanism is one that (1) uses at run time a copy of the library $\ensuremath{\text{library}}$

already present on the user's computer system, rather than copying library $\ensuremath{\mathsf{library}}$

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

 $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

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 $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

designated place, offer equivalent access to copy the above specified

materials from the same place.

e) Verify that the user has already received a copy of these materials or $% \left(1\right) =\left(1\right) +\left(1\right) +$

that you have already sent this user a copy.

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

include any data and utility programs needed for reproducing the executable from

it. However, as a special exception, the materials to be distributed need not

include anything that is normally distributed (in either source or binary form)

with the major components (compiler, kernel, and so on) of the operating system

on which the executable runs, unless that component itself accompanies the $% \left(1\right) =\left(1\right) +\left(1\right)$

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 $\ensuremath{\mathsf{Library}}$

executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not

covered by this License, and distribute such a combined library, provided that

the separate distribution of the work based on the Library and of the other

library facilities is otherwise permitted, and provided that you do these two

things:

a) Accompany the combined library with a copy of the same work based on the

Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left$

it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library

except as expressly provided under this License. Any attempt otherwise to copy,

modify, sublicense, link with, or distribute the Library is void, and will

automatically terminate your rights under this License. However, parties who have

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licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it.

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exercise of the rights granted herein. You are not responsible for enforcing

compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement

or for any other reason (not limited to patent issues), conditions are imposed on

you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this

License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a

consequence you may not distribute the Library at all. For example, if a patent

license would not permit royalty-free redistribution of the Library by all those

who receive copies directly or indirectly through you, then the only way you

could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the

section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or

other property right claims or to contest validity of any such claims; this

section has the sole purpose of protecting the integrity of the free software

distribution system which is implemented by public license practices. Many people

have made generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that system; it is

up to the author/donor to decide if he or she is willing to distribute software

through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be $\ensuremath{\mathtt{a}}$

consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in $\operatorname{certain}$

countries either by patents or by copyrighted interfaces, the original copyright

holder who places the Library under this License may add an explicit geographical

distribution limitation excluding those countries, so that distribution is

permitted only in or among countries not thus excluded. In such case, this

License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the $\ensuremath{\mathsf{N}}$

Lesser General Public License from time to time. Such new versions will be

similar in spirit to the present version, but may differ in detail to address new

problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a

version number of this License which applies to it and "any later version", you

have the option of following the terms and conditions either of that version or

of any later version published by the Free Software Foundation. If the Library

does not specify a license version number, you may choose any version ever

published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs

whose distribution conditions are incompatible with these, write to the author to

ask for permission. For software which is copyrighted by the Free Software

Foundation, write to the Free Software Foundation; we sometimes make exceptions

for this. Our decision will be guided by the two goals of preserving the free

status of all derivatives of our free software and of promoting the sharing and

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USA

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

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

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307

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

You should also get your employer (if you work as a programmer) or your school,

if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a

sample; alter the names:

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

signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and $\,$

conditions of version 3 of the GNU General Public License, supplemented by the $\,$

additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General

Public License, and the "GNU GPL" refers to version 3 of the GNU General Public

License.

"The Library" refers to a covered work governed by this License, other than an $\ensuremath{\text{\text{c}}}$

Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the

Library, but which is not otherwise based on the Library. Defining a subclass of

a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with

the Library. The particular version of the Library with which the Combined Work

was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding

Source for the Combined Work, excluding any source code for portions of the

Combined Work that, considered in isolation, are based on the $\ensuremath{\mathsf{Application}},$ and

not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code

and/or source code for the Application, including any data and utility programs $\$

needed for reproducing the Combined Work from the Application, but excluding the $\,$

System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections $\mbox{3}$ and $\mbox{4}$ of this License without

being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility

refers to a function or data to be supplied by an Application that uses the

facility (other than as an argument passed when the facility is invoked), then

you may convey a copy of the modified version:

* a) under this License, provided that you make a good faith effort to ensure

that, in the event an Application does not supply the function or data, the

facility still operates, and performs whatever part of its purpose remains

meaningful, or

 * b) under the GNU GPL, with none of the additional permissions of this License

applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header $\,$

file that is part of the Library. You may convey such object code under terms of

your choice, provided that, if the incorporated material is not limited to

numerical parameters, data structure layouts and accessors, or small macros,

inline functions and templates (ten or fewer lines in length), you do both of the following:

 * a) Give prominent notice with each copy of the object code that the Library

is used in it and that the Library and its use are covered by this License.

 * b) Accompany the object code with a copy of the GNU GPL and this license

document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together,

effectively do not restrict modification of the portions of the Library contained

in the Combined Work and reverse engineering for debugging such modifications, if

you also do each of the following:

- * a) Give prominent notice with each copy of the Combined Work that the Library
- is used in it and that the Library and its use are covered by this License.
- * b) Accompany the Combined Work with a copy of the GNU GPL and this license

document.

* c) For a Combined Work that displays copyright notices during execution,

include the copyright notice for the Library among these notices, as well as

a reference directing the user to the copies of the GNU GPL and this license $\,$

document.

- * d) Do one of the following:
- $\,$ * 0) Convey the Minimal Corresponding Source under the terms of this

License, and the Corresponding Application Code in a form suitable for, $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a

 $\,$ modified Combined Work, in the manner specified by section 6 of the GNU $\,$

GPL for conveying Corresponding Source.

 $\,$ * 1) Use a suitable shared library mechanism for linking with the Library.

A suitable mechanism is one that (a) uses at run time a copy of the $\ensuremath{\mathsf{A}}$

Library already present on the user's computer system, and (b) will

operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

* e) Provide Installation Information, but only if you would otherwise be

required to provide such information under section 6 of the GNU $\ensuremath{\mathsf{GPL}}$, and only

to the extent that such information is necessary to install and execute \boldsymbol{a}

modified version of the Combined Work produced by recombining or relinking

the Application with a modified version of the Linked Version. (If you use

option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option

4d1, you must provide the Installation Information in the manner specified by

section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

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 that are not

Applications and are not covered by this License, and convey such a combined

library under terms of your choice, if you do both of the following:

* a) Accompany the combined library with a copy of the same work based on the

Library, uncombined with any other library facilities, conveyed under the

terms of this License.

* b) Give prominent notice with the combined library that part of it is a work

based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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The Free Software Foundation may publish revised and/or new versions of the $\ensuremath{\mathsf{GNII}}$

Lesser General Public License from time to time. Such new versions will be

similar in spirit to the present version, but may differ in detail to address new $\$

problems or concerns.

Each version is given a distinguishing version number. If the Library as you

received it specifies that a certain numbered version of the GNU Lesser General

Public License "or any later version" applies to it, you have the option of

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later version published by the Free Software Foundation. If the Library as you

received it does not specify a version number of the GNU Lesser General Public

License, you may choose any version of the GNU Lesser General Public License ever

published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether

future versions of the GNU Lesser General Public License shall apply, that

proxy's public statement of acceptance of any version is permanent authorization

for you to choose that version for the Library.

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Version 3, 29 June 2007

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document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take

away your freedom to share and change the works. By contrast, the GNU $_{\rm General}$

Public License is intended to guarantee your freedom to share and change

versions of a program--to make sure it remains free software for all its users.

We, the Free Software Foundation, use the GNU General Public License for most of

our software; it applies also to any other work released this way by its authors.

You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our

General Public Licenses are designed to make sure that you have the freedom to

distribute copies of free software (and charge for them if you wish), that you

receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do

these things.

To protect your rights, we need to prevent others from denying you these rights

or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it:

responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a

fee, you must pass on to the recipients the same freedoms that you received. You

must make sure that they, too, receive or can get the source code. And you must

show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert

copyright on the software, and (2) offer you this License giving you legal

permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there

is no warranty for this free software. For both users' and authors' sake, the GPL

requires that modified versions be marked as changed, so that their problems will

not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This

is fundamentally incompatible with the aim of protecting users' freedom to change

the software. The systematic pattern of such abuse occurs in the area of products

for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for

those products. If such problems arise substantially in other domains, we stand

ready to extend this provision to those domains in future versions of the GPL, as

needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States $\ \ \,$

should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special

danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to

render the program non-free.

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

TERMS AND CONDITIONS

O. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, $\$

such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each

licensee is addressed as "you". "Licensees" and "recipients" may be individuals

or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a

fashion requiring copyright permission, other than the making of an exact copy.

The resulting work is called a "modified version" of the earlier work or a work

"based on" the earlier work.

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

To "propagate" a work means to do anything with it that, without permission,

would make you directly or secondarily liable for infringement under applicable

copyright law, except executing it on a computer or modifying a private copy.

Propagation includes copying, distribution (with or without modification), making

available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to

make or receive copies. Mere interaction with a user through a computer network,

with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent

that it includes a convenient and prominently visible feature that (1) displays

an appropriate copyright notice, and (2) tells the user that there is no warranty

for the work (except to the extent that warranties are provided), that licensees $\frac{1}{2}$

may convey the work under this License, and how to view a copy of this License.

If the interface presents a list of user commands or options, such as a menu, a

prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making

modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard

defined by a recognized standards body, or, in the case of interfaces specified

for a particular programming language, one that is widely used among developers

working in that language.

The "System Libraries" of an executable work include anything, other than the

work as a whole, that (a) is included in the normal form of packaging a Major

Component, but which is not part of that Major Component, and (b) serves only to

enable use of the work with that Major Component, or to implement a Standard

Interface for which an implementation is available to the public in source code

form. A "Major Component", in this context, means a major essential component

(kernel, window system, and so on) of the specific operating system (if any) on

which the executable work runs, or a compiler used to produce the work, or an $\ensuremath{\mathsf{e}}$

object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source

code needed to generate, install, and (for an executable work) run the object $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left$

code and to modify the work, including scripts to control those activities.

However, it does not include the work's System Libraries, or general-purpose

tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example,

Corresponding Source includes interface definition files associated with source

files for the work, and the source code for shared libraries and dynamically

linked subprograms that the work is specifically designed to require, such as by

intimate data communication or control flow between those subprograms and other

parts of the work.

The Corresponding Source need not include anything that users can regenerate

automatically from other parts of the Corresponding Source.

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

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on

the Program, and are irrevocable provided the stated conditions are met. This

License explicitly affirms your unlimited permission to run the unmodified

Program. The output from running a covered work is covered by this License only

if the output, given its content, constitutes a covered work. This License

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covered works to others for the sole purpose of having them make $\operatorname{modifications}$

exclusively for you, or provide you with facilities for running those works,

provided that you comply with the terms of this License in conveying all $\mathsf{material}$

for which you do not control copyright. Those thus making or running the covered

works for you must do so exclusively on your behalf, under your direction and

control, on terms that prohibit them from making any copies of your copyrighted $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions

stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

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

No covered work shall be deemed part of an effective technological measure under $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

any applicable law fulfilling obligations under article 11 of the WIPO copyright

treaty adopted on 20 December 1996, or similar laws prohibiting or restricting

circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention

of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you

disclaim any intention to limit operation or modification of the work as a means

of enforcing, against the work's users, your or third parties' legal rights to

forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in

any medium, provided that you conspicuously and appropriately publish on each

copy an appropriate copyright notice; keep intact all notices stating that this

License and any non-permissive terms added in accord with section 7 apply to the

code; keep intact all notices of the absence of any warranty; and give all

recipients a copy of this License along with the Program.

offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it

from the Program, in the form of source code under the terms of section $\mathbf{4}$,

provided that you also meet all of these conditions:

* a) The work must carry prominent notices stating that you modified it, and

giving a relevant date.

* b) The work must carry prominent notices stating that it is released under

this License and any conditions added under section 7. This requirement

modifies the requirement in section 4 to "keep intact all notices".

 * c) You must license the entire work, as a whole, under this License to anyone

who comes into possession of a copy. This License will therefore apply, along

with any applicable section 7 additional terms, to the whole of the work, and

all its parts, regardless of how they are packaged. This License gives no

permission to license the work in any other way, but it does not invalidate

such permission if you have separately received it.

 * d) If the work has interactive user interfaces, each must display Appropriate

Legal Notices; however, if the Program has interactive interfaces that do not

display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which

are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage

or distribution medium, is called an "aggregate" if the compilation and its

resulting copyright are not used to limit the access or legal rights of the

compilation's users beyond what the individual works permit. Inclusion of a

covered work in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections $\boldsymbol{4}$

and 5, provided that you also convey the machine-readable Corresponding Source

under the terms of this License, in one of these ways:

* a) Convey the object code in, or embodied in, a physical product (including a

physical distribution medium), accompanied by the Corresponding Source fixed

on a durable physical medium customarily used for software interchange.

 * b) Convey the object code in, or embodied in, a physical product (including a

physical distribution medium), accompanied by a written offer, valid for at

least three years and valid for as long as you offer spare parts or $\operatorname{customer}$

support for that product model, to give anyone who possesses the object code

either (1) a copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical medium

customarily used for software interchange, for a price no more than vour

reasonable cost of physically performing this conveying of source, or (2)

access to copy the Corresponding Source from a network server at no charge.

 $\ \ ^{\star}$ c) Convey individual copies of the object code with a copy of the written

offer to provide the Corresponding Source. This alternative is allowed only

occasionally and noncommercially, and only if you received the object code

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

* d) Convey the object code by offering access from a designated place (gratis

or for a charge), and offer equivalent access to the Corresponding Source in $% \left(1\right) =\left(1\right) +\left(1\right$

the same way through the same place at no further charge. You need

require recipients to copy the Corresponding Source along with the object

code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third

party) that supports equivalent copying facilities, provided you maintain

clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding

Source, you remain obligated to ensure that it is available for as long as

needed to satisfy these requirements.

* e) Convey the object code using peer-to-peer transmission, provided 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.

A separable portion of the object code, whose source code is excluded from the $\$

Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible

personal property which is normally used for personal, family, or household

purposes, or (2) anything designed or sold for incorporation into a dwelling. In

determining whether a product is a consumer product, doubtful cases shall be

resolved in favor of coverage. For a particular product received by a particular

user, "normally used" refers to a typical or common use of that class of product,

regardless of the status of the particular user or of the way in which the

particular user actually uses, or expects or is expected to use, the product. ${\tt A}$

product is a consumer product regardless of whether the product has substantial

commercial, industrial or non-consumer uses, unless such uses represent the only $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$

significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures,

authorization keys, or other information required to install and execute modified

versions of a covered work in that User Product from a modified version of its

Corresponding Source. The information must suffice to ensure that the continued

functioning of the modified object code is in no case prevented or interfered

with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically

for use in, a User Product, and the conveying occurs as part of a transaction in

which the right of possession and use of the User Product is transferred to the

recipient in perpetuity or for a fixed term (regardless of how the transaction is

characterized), the Corresponding Source conveyed under this section must be

accompanied by the Installation Information. But this requirement does not apply

if neither you nor any third party retains the ability to install modified object

code on the User Product (for example, the work has been installed in $\ensuremath{\mathsf{ROM}})\,.$

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a

work that has been modified or installed by the recipient, or for the $\ensuremath{\mathsf{User}}$

Product in which it has been modified or installed. Access to a network may be

denied when the modification itself materially and adversely affects the

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

Corresponding Source conveyed, and Installation Information provided, in accord

with this section must be in a format that is publicly documented (and with an

implementation available to the public in source code form), and must require no $\,$

special password or key for unpacking, reading or copying.

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"Additional permissions" are terms that supplement the terms of this License by

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of that license document, provided that the further restriction does not survive

such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place,

in the relevant source files, a statement of the additional terms that apply to

those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a

separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under

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However, if you cease all violation of this License, then your license from a

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the Program. Ancillary propagation of a covered work occurring solely as a

consequence of using peer-to-peer transmission to receive a copy likewise does

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or substantially all assets of one, or subdividing an organization, or merging

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receives whatever licenses to the work the party's predecessor in interest had or

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one or more identifiable patents in that country that you have reason to believe $% \left(1\right) =\left(1\right) \left(1\right)$

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If, pursuant to or in connection with a single transaction or arrangement, you

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ander applicable pacene law.

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or concerns.

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To do so, attach the following notices to the program. It is safest to attach

them to the start of each source file to most effectively state the exclusion of

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to where the full notice is found.

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

If the program does terminal interaction, make it output a short notice like this

when it starts in an interactive mode:

copyright (C) <year> <name of author>

This program comes with ABSOLUTELY NO WARRANTY; for details type `show $\mathbf{w}^{\, \prime}$

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts

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different; for a GUI interface, you would use an "about box".

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this License. But first, please read

<http://www.gnu.org/philosophy/why-not-lgpl.html>.

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Version 3, 29 June 2007

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0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General

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"The Library" refers to a covered work governed by this License, other than an

Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the

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a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with

the Library. The particular version of the Library with which the Combined Work

was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding

Source for the Combined Work, excluding any source code for portions of the

Combined Work that, considered in isolation, are based on the $\mbox{\sc Application}$, and

not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code

and/or source code for the Application, including any data and utility programs

needed for reproducing the Combined Work from the Application, but excluding the $\,$

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You may convey a covered work under sections $\mbox{3}$ and $\mbox{4}$ of this License without

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2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility

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* a) under this License, provided that you make a good faith effort to ensure

that, in the event an Application does not supply the function or data, the $\ensuremath{\mathsf{L}}$

facility still operates, and performs whatever part of its purpose $\operatorname{remains}$

meaningful, or

 * b) under the GNU GPL, with none of the additional permissions of this License

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3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header

file that is part of the Library. You may convey such object code under terms of

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numerical parameters, data structure layouts and accessors, or small macros, $% \left(1\right) =\left(1\right) \left(1$

inline functions and templates (ten or fewer lines in length), you do both of the following:

- * a) Give prominent notice with each copy of the object code that the Library
- is used in it and that the Library and its use are covered by this License. $\,$
- $\ ^{\star}$ b) Accompany the object code with a copy of the GNU GPL and this license

document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together,

effectively do not restrict modification of the portions of the Library contained

in the Combined Work and reverse engineering for debugging such modifications, if

you also do each of the following:

- \star a) Give prominent notice with each copy of the Combined Work that the Library
- is used in it and that the Library and its use are covered by this License.
- * b) Accompany the Combined Work with a copy of the GNU GPL and this license

document.

* c) For a Combined Work that displays copyright notices during execution,

include the copyright notice for the Library among these notices, as well as

a reference directing the user to the copies of the GNU GPL and this license $\,$

document.

- * d) Do one of the following:
- $\,\,$ * 0) Convey the Minimal Corresponding Source under the terms of this

License, and the Corresponding Application Code in a form suitable for,

and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a $\,$

 $\,$ modified Combined Work, in the manner specified by section 6 of the $\ensuremath{\mathsf{GNU}}$

GPL for conveying Corresponding Source.

 $\,$ * 1) Use a suitable shared library mechanism for linking with the Library.

A suitable mechanism is one that (a) uses at run time a copy of the

Library already present on the user's computer system, and (b) will

operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

 \star e) Provide Installation Information, but only if you would otherwise be

required to provide such information under section 6 of the GNU $\ensuremath{\mathsf{GPL}}$, and only

to the extent that such information is necessary to install and execute a $\ensuremath{\mathsf{e}}$

 $\mbox{\sc modified}$ version of the Combined Work produced by recombining or relinking

the Application with a modified version of the Linked Version. (If you use

option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option

4d1, you must provide the Installation Information in the manner specified by

section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

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 that are not

Applications and are not covered by this License, and convey such a combined

library under terms of your choice, if you do both of the following:

* a) Accompany the combined library with a copy of the same work based on the

Library, uncombined with any other library facilities, conveyed under the

terms of this License.

* b) Give prominent notice with the combined library that part of it is a work

based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU

Lesser General Public License from time to time. Such new versions will be

similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as vou

received it specifies that a certain numbered version of the GNU Lesser General

Public License "or any later version" applies to it, you have the option of

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later version published by the Free Software Foundation. If the Library as you $\$

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Version 3, 29 June 2007

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document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take

away your freedom to share and change the works. By contrast, the ${\tt GNU}$ ${\tt General}$

Public License is intended to guarantee your freedom to share and change all

versions of a program--to make sure it remains free software for all its

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our software; it applies also to any other work released this way by its authors.

You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our

General Public Licenses are designed to make sure that you have the freedom to

distribute copies of free software (and charge for them if you wish), that you

receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do

these things.

To protect your rights, we need to prevent others from denying you these rights

or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it:

responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a

fee, you must pass on to the recipients the same freedoms that you received. You

must make sure that they, too, receive or can get the source code. And you must

show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert

copyright on the software, and (2) offer you this License giving you legal

permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there

is no warranty for this free software. For both users' and authors' sake,

requires that modified versions be marked as changed, so that their problems will

not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified

versions of the software inside them, although the manufacturer can do so. This

is fundamentally incompatible with the aim of protecting users' freedom to change

the software. The systematic pattern of such abuse occurs in the area of products

for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for

those products. If such problems arise substantially in other domains, we stand

ready to extend this provision to those domains in future versions of the GPL, as

needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States ${\sf States}$

should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special

danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to

render the program non-free.

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

TERMS AND CONDITIONS

O. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

sacii as sciliconaactor masks.

"The Program" refers to any copyrightable work licensed under this License. Each $\,$

licensee is addressed as "you". "Licensees" and "recipients" may be individuals

or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a

fashion requiring copyright permission, other than the making of an exact copy.

The resulting work is called a "modified version" of the earlier work or a work

"based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the $\ensuremath{\mbox{\sc holimskip}}$

Program.

To "propagate" a work means to do anything with it that, without permission,

would make you directly or secondarily liable for infringement under applicable $\,$

copyright law, except executing it on a computer or modifying a private copy.

Propagation includes copying, distribution (with or without modification), making

available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to

make or receive copies. Mere interaction with a user through a computer network,

with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent

that it includes a convenient and prominently visible feature that (1) displays

an appropriate copyright notice, and (2) tells the user that there is no warranty

for the work (except to the extent that warranties are provided), that licensees

may convey the work under this License, and how to view a copy of this License.

If the interface presents a list of user commands or options, such as a menu, a

prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making

modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard

defined by a recognized standards body, or, in the case of interfaces specified

for a particular programming language, one that is widely used among developers

working in that language.

The "System Libraries" of an executable work include anything, other than the

work as a whole, that (a) is included in the normal form of packaging a Major

Component, but which is not part of that Major Component, and (b) serves only to $\ensuremath{\mathsf{S}}$

enable use of the work with that Major Component, or to implement a $\operatorname{Standard}$

Interface for which an implementation is available to the public in source code

form. A "Major Component", in this context, means a major essential component

(kernel, window system, and so on) of the specific operating system (if any) on

which the executable work runs, or a compiler used to produce the work, or an

object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source

code needed to generate, install, and (for an executable work) run the object

code and to modify the work, including scripts to control those activities.

However, it does not include the work's System Libraries, or general-purpose

tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example,

Corresponding Source includes interface definition files associated with source

files for the work, and the source code for shared libraries and dynamically

linked subprograms that the work is specifically designed to require, such as by

intimate data communication or control flow between those subprograms and other $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

parts of the work.

The Corresponding Source need not include anything that users can regenerate

automatically from other parts of the Corresponding Source.

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

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

the Program, and are irrevocable provided the stated conditions are met. This

License explicitly affirms your unlimited permission to run the unmodified

Program. The output from running a covered work is covered by this License only

if the output, given its content, constitutes a covered work. This License

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You may make, run and propagate covered works that you do not convey, without

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exclusively for you, or provide you with facilities for running those works,

provided that you comply with the terms of this License in conveying all material

for which you do not control copyright. Those thus making or running the covered

works for you must do so exclusively on your behalf, under your direction and

control, on terms that prohibit them from making any copies of your copyrighted

material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions

stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

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

No covered work shall be deemed part of an effective technological measure under

any applicable law fulfilling obligations under article 11 of the WIPO copyright

treaty adopted on 20 December 1996, or similar laws prohibiting or restricting

circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention

of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you

disclaim any intention to limit operation or modification of the work as a means

of enforcing, against the work's users, your or third parties' legal rights to

forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in

any medium, provided that you conspicuously and appropriately publish on each

copy an appropriate copyright notice; keep intact all notices stating that this

License and any non-permissive terms added in accord with section 7 apply to the

code; keep intact all notices of the absence of any warranty; and give all

recipients a copy of this License along with the Program.

offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it

from the Program, in the form of source code under the terms of section $\mathbf{4}$,

provided that you also meet all of these conditions:

 * a) The work must carry prominent notices stating that you modified it, and

giving a relevant date.

* b) The work must carry prominent notices stating that it is released under

this License and any conditions added under section 7. This requirement

modifies the requirement in section 4 to "keep intact all notices".

* c) You must license the entire work, as a whole, under this License to anyone

who comes into possession of a copy. This License will therefore apply, along

with any applicable section 7 additional terms, to the whole of the work, and

all its parts, regardless of how they are packaged. This License gives no

permission to license the work in any other way, but it does not invalidate

such permission if you have separately received it.

 * d) If the work has interactive user interfaces, each must display Appropriate

Legal Notices; however, if the Program has interactive interfaces that do not

display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which

are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage

or distribution medium, is called an "aggregate" if the compilation and its

resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other

6. Conveying Non-Source Forms.

parts of the aggregate.

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

 * a) Convey the object code in, or embodied in, a physical product (including a

physical distribution medium), accompanied by the Corresponding Source fixed $\ensuremath{\mathsf{Source}}$

on a durable physical medium customarily used for software interchange.

* b) Convey the object code in, or embodied in, a physical product (including a

physical distribution medium), accompanied by a written offer, valid for at

least three years and valid for as long as you offer spare parts or customer

support for that product model, to give anyone who possesses the object code $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($

either (1) a copy of the Corresponding Source for all the software in the $\ensuremath{\mathsf{E}}$

product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your

reasonable cost of physically performing this conveying of source, or (2)

access to copy the Corresponding Source from a network server at no charge.

 $\ \ ^{\star}$ c) Convey individual copies of the object code with a copy of the written

offer to provide the Corresponding Source. This alternative is allowed only

occasionally and noncommercially, and only if you received the object code

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

* d) Convey the object code by offering access from a designated place (gratis

or for a charge), and offer equivalent access to the Corresponding Source in $\$

the same way through the same place at no further charge. You need not

require recipients to copy the Corresponding Source along with the object

code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third

party) that supports equivalent copying facilities, provided you maintain $% \left(1\right) =\left(1\right) +\left(1\right) +$

clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding

Source, you remain obligated to ensure that it is available for as long as $% \left(1\right) =\left(1\right) +\left(1\right)$

needed to satisfy these requirements.

* e) Convey the object code using peer-to-peer transmission, provided you

inform other peers where the object code and Corresponding Source of the work

are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the $\$

Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible

personal property which is normally used for personal, family, or household

purposes, or (2) anything designed or sold for incorporation into a dwelling. In

determining whether a product is a consumer product, doubtful cases shall be

resolved in favor of coverage. For a particular product received by a particular

user, "normally used" refers to a typical or common use of that class of product,

regardless of the status of the particular user or of the way in which the

particular user actually uses, or expects or is expected to use, the product. $\ensuremath{\mathtt{A}}$

product is a consumer product regardless of whether the product has substantial

commercial, industrial or non-consumer uses, unless such uses represent the only $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$

significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures,

authorization keys, or other information required to install and execute $\mbox{modified}$

versions of a covered work in that User Product from a modified version of its

Corresponding Source. The information must suffice to ensure that the continued

functioning of the modified object code is in no case prevented or interfered $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left$

with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically

for use in, a User Product, and the conveying occurs as part of a transaction in $\ensuremath{\mathsf{I}}$

which the right of possession and use of the User Product is transferred to the

recipient in perpetuity or for a fixed term (regardless of how the transaction is

characterized), the Corresponding Source conveyed under this section must be

accompanied by the Installation Information. But this requirement does not apply

if neither you nor any third party retains the ability to install modified object

code on the User Product (for example, the work has been installed in ${\tt ROM}$).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a

work that has been modified or installed by the recipient, or for the User

Product in which it has been modified or installed. Access to a network may be

denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication

across the network.

Corresponding Source conveyed, and Installation Information provided, in accord

with this section must be in a format that is publicly documented (and with an

implementation available to the public in source code form), and must require no

special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by $% \left(1\right) =\left(1\right) \left(1\right) \left$

making exceptions from one or more of its conditions. Additional permissions that

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by works containing it; or

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within the meaning of section 10. If the Program as you received it, or any part

of it, contains a notice stating that it is governed by this License along with a $\,$

term that is a further restriction, you may remove that term. If a license

document contains a further restriction but permits relicensing or conveying

under this License, you may add to a covered work material governed by the terms

of that license document, provided that the further restriction does not survive

such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place,

in the relevant source files, a statement of the additional terms that apply to

those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a

separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under

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You are not required to accept this License in order to receive or run a copy of

the Program. Ancillary propagation of a covered work occurring solely as a

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copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

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or substantially all assets of one, or subdividing an organization, or merging

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receives whatever licenses to the work the party's predecessor in interest had or $% \left(1\right) =\left(1\right) +\left(1\right) +$

could give under the previous paragraph, plus a right to possession of the

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To "grant" such a patent license to a party means to make such an agreement or

commitment not to enforce a patent against the party.

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server or other readily accessible means, then you must either (1) cause the

Corresponding Source to be so available, or (2) arrange to deprive yourself of

the benefit of the patent license for this particular work, or (3) arrange, in a

manner consistent with the requirements of this License, to extend the patent

license to downstream recipients. "Knowingly relying" means you have actual

knowledge that, but for the patent license, your conveying the covered work in a

country, or your recipient's use of the covered work in a country, would infringe

one or more identifiable patents in that country that you have reason to believe

are valid.

If, pursuant to or in connection with a single transaction or arrangement, you

convey, or propagate by procuring conveyance of, a covered work, and grant a

patent license to some of the parties receiving the covered work authorizing them

to use, propagate, modify or convey a specific copy of the covered work, then the $\ensuremath{\mathsf{c}}$

patent license you grant is automatically extended to all recipients of the

covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of

its coverage, prohibits the exercise of, or is conditioned on the non-exercise of $% \left(1\right) =\left(1\right) \left(1\right)$

one or more of the rights that are specifically granted under this License. You

may not convey a covered work if you are a party to an arrangement with a third

party that is in the business of distributing software, under which you $\ensuremath{\mathsf{make}}$

payment to the third party based on the extent of your activity of conveying the

work, and under which the third party grants, to any of the parties who would

receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from

those copies), or (b) primarily for and in connection with specific products or

compilations that contain the covered work, unless you entered into that

arrangement, or that patent license was granted, prior to 28 March 2007.

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under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise)

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conditions of this License. If you cannot convey a covered work so as to satisfy

simultaneously your obligations under this License and any other pertinent

obligations, then as a consequence you may not convey it at all. For example, if

you agree to terms that obligate you to collect a royalty for further conveying

from those to whom you convey the Program, the only way you could satisfy both

those terms and this License would be to refrain entirely from conveying the $\,$

Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link

or combine any covered work with a work licensed under version 3 of the $\ensuremath{\mathtt{GNU}}$

Affero General Public License into a single combined work, and to convey the

resulting work. The terms of this License will continue to apply to the part

which is the covered work, but the special requirements of the GNU Affero General

Public License, section 13, concerning interaction through a network will apply

to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the $\ensuremath{\mathsf{GNU}}$

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spirit to the present version, but may differ in detail to address new problems

or concerns.

Each version is given a distinguishing version number. If the Program specifies

that a certain numbered version of the GNU General Public License "or any later

version" applies to it, you have the option of following the terms and conditions

either of that numbered version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of the $\ensuremath{\mathsf{GNU}}$

General Public License, you may choose any version ever published by the Free

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If the Program specifies that a proxy can decide which future versions of the $\ensuremath{\mathsf{GNU}}$

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of a version permanently authorizes you to choose that version for the Program.

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them to the start of each source file to most effectively state the exclusion of

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

If the program does terminal interaction, make it output a short notice like this

when it starts in an interactive mode:

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Version 2, June 1991

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[This is the first released version of the Library GPL. It is numbered 2

because it goes with version 2 of the ordinary GPL.]

Preamble

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the software or use pieces of it in new free programs; and that you know you can

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To protect your rights, we need to make restrictions that forbid anyone to deny

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translate to certain responsibilities for you if you distribute copies of the

library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a

fee, you must give the recipients all the rights that we gave you. You must make

sure that they, too, receive or can get the source code. If you link a program

with the library, you must provide complete object files to the recipients so

that they can relink them with the library after making changes to the library

and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library,

and (2) offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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modified by someone else and passed on, we want its recipients to know that what

they have is not the original version, so that any problems introduced by others

will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish

to avoid the danger that companies distributing free software will individually

obtain patent licenses, thus in effect transforming the program into proprietary

software. To prevent this, we have made it clear that any patent must be licensed

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Most GNU software, including some libraries, is covered by the ordinary ${\tt GNU}$

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the GNU Library General Public License, applies to certain designated libraries.

This license is quite different from the ordinary one; be sure to read it in

full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur

the distinction we usually make between modifying or adding to a program and

simply using it. Linking a program with a library, without changing the library,

is in some sense simply using the library, and is analogous to running a utility $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

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

ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License

for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might

promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of

those programs of all benefit from the free status of the libraries themselves.

This Library General Public License is intended to permit developers of non-free

programs to use free libraries, while preserving your freedom as a user of such

programs to change the free libraries that are incorporated in them. (We have not

seen how to achieve this as regards changes in header files, but we have achieved

it as regards changes in the actual functions of the Library.) The hope is that

this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification

follow. Pay close attention to the difference between a "work based on the

library" and a "work that uses the library". The former contains code derived

from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General

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A "library" means a collection of software functions and/or data prepared so as

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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 $\operatorname{modifications}$

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 $\ensuremath{\mathsf{Library}}$

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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absence of any warranty; and distribute a copy of this License along with the $\,$

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You may charge a fee for the physical act of transferring a copy, and you may at $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

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

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or work under the terms of Section 1 above, provided that you also meet all of

these conditions:

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- b) You must cause the files modified to carry prominent notices stating

that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all

third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of

data to be supplied by an application program that uses the facility, other

than as an argument passed when the facility is invoked, then you must make

a good faith effort to ensure that, in the event an application does not

supply such function or table, the facility still operates, and performs

whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose

that is entirely well-defined independent of the application. Therefore,

Subsection 2d requires that any application-supplied function or table used $% \left(1\right) =\left(1\right) +\left(1\right)$

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 $% \left(1\right) =\left(1\right) \left(1\right)$

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

 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) +\left(1\right) \left(1\right) +\left(1\right) +\left(1\right) \left(1\right) +\left(1\right) +\left($

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 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

this License.

3. You may opt to apply the terms of the ordinary GNU General Public License $\,$

instead of this License to a given copy of the Library. To do this, you $_{\text{must}}$

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

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other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so

the ordinary GNU General Public License applies to all subsequent copies and

derivative works made from that copy.

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

a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it,

under Section 2) in object code or executable form under the terms of Sections $\boldsymbol{1}$

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,

designed to work with the Library by being compiled or linked with it, is

a "work that uses the Library". Such a work, in isolation, is not a

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

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

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

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

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

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

object code for the work under the terms of Section 6. Any executables containing

that work also fall under Section 6, whether or not they are linked directly with

the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work

that uses the Library" with the Library to produce a work containing portions of

the Library, and distribute that work under terms of your choice, provided that

the terms permit modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is

used in it and that the Library and its use are covered by this License.

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 $\ensuremath{\mathsf{L}}$

well as a reference directing the user to the copy of this License. Also, you

must do one of these things:

a) Accompany the work with the complete corresponding machine-readable $% \left(1\right) =\left(1\right) \left(1\right) \left($

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 $\ensuremath{\text{0}}$

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 \boldsymbol{a}

modified executable containing the modified Library. (It is understood that

the user who changes the contents of definitions files in the Library will

 $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

definitions.)

- b) Accompany the work with a written offer, valid for at least three years,
- to give the same user the materials specified in Subsection 6a, above, for $\ensuremath{\text{above}}$
 - 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 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($

materials from the same place.

d) Verify that the user has already received a copy of these materials or $% \left(1\right) =\left(1\right) +\left(1\right) +$

that you have already sent this user a copy.

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

include any data and utility programs needed for reproducing the executable from

it. However, as a special exception, the source code distributed need not include

anything that is normally distributed (in either source or binary form) with the

major components (compiler, kernel, and so on) of the operating system on which

the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other

proprietary libraries that do not normally accompany the operating system. Such a

contradiction means you cannot use both them and the Library together in an

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not

covered by this License, and distribute such a combined library, provided that

the separate distribution of the work based on the Library and of the other

library facilities is otherwise permitted, and provided that you do these two things:

\ _____

a) Accompany the combined library with a copy of the same work based on the $\,$

Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

- b) Give prominent notice with the combined library of the fact that part of
 - it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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one line to give the library's name and an idea of what it does.

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Ty Coon, President of Vice

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