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   'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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   Version 2, June 1991
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
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1.2 autoconf 2.65

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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### 1.4 avahi 0.6.31

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1.7 binutils 2.21

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```
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```

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1.16 cms_util n/a

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* djb's sample implementation of curve25519 is written in a special assembly
* language called qasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
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That's all there is to it! This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.
HISTORY -

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

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

Some other contributors:

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

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

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# 128 bit long double support was introduced with GCC 4.6.0 for FreeBSD.
# These lines make the symbols to get a @@GCC_4.6.0.
%exclude {
  __adddf3
  __copysignf3
  __divc3
  __divf3
  __eqtf2
  __extenddf2f
  __extendsf2f
  __extendsf2f
  __fabsf2
  __fixf3di
  __fixf3si
  __fixf3ti
  __fixunstf3di
  __fixunstf3si
  __fixunstf3ti
  __floatdf2f
  __floatsf2f
  __floatsf2f
  __floatunstf3di
  __floatunstf3si
  __floatunstf3ti
  __getf2
  __gtf2
  __ltf2
  __ult2
  __multc3
  __multf3
  __negf2
  __netf2
  __powf2
  __subf3
  __trunctdf2f
  __trunctsf2f
  __trunctxf2f
  __unordf2f
}

GCC_4.6.0 {
  __addf3
  ifndef __x86_64__
    __copysignf3
  endif

  ifndef __x86_64__
    __divc3
    __divf3
    __eqtf2
    __extenddf2f
  endif

  ifndef __x86_64__
    __extdffe2f
    __extsfse2f
    __extxfse2f
  endif

  ifndef __x86_64__
    __fabsf2
    __fixf3di
    __fixf3si
    __fixf3ti
    __fixunstf3di
    __fixunstf3si
    __fixunstf3ti
    __floatdf2f
    __floatsf2f
    __floatsf2f
    __floatunstf3di
    __floatunstf3si
    __floatunstf3ti
    __getf2
    __gtf2
    __ltf2
    __ultf2
    __multc3
    __multf3
    __negf2
    __netf2
    __powf2
    __subf3
    __trunctdf2f
    __trunctsf2f
    __trunctxf2f
    __unordf2f
  }

Open Source Used In RV134W router 1.0.1.17
__extendsftf2
__extendxftf2
%ifndef __x86_64__
__fabstf2
%endif
__fixtfdi
__fixtfsi
%ifdef __x86_64__
__fixtffi
%endif
__fixunstfdi
__fixunstfsi
%ifdef __x86_64__
__fixunstffi
%endif
__floatditf
__floatsitf
%ifdef __x86_64__
__floattitf
%endif
__floatunditf
__floatunsitf
%ifdef __x86_64__
__floatuntitf
%endif
__getf2
__gttf2
__leff2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctfdf2
__trunctfsf2
__trunctfxf2
__unordtf2
}

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

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

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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
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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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
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Otherwise, if the work is a derivative of the Library, you may
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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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
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1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or
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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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impose that choice.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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

Preamble

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

This license, the Lesser General Public License, applies to some specially designated software 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, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software 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 version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.29 gmp 5.0.2
1.29.1 Available under license :

/* __gmp_replacement_vsnprintf -- for systems which don't have vsnprintf, or
   only have a broken one.

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along with the GNU MP Library. If not, see http://www.gnu.org/licenses. */

#include "config.h"

#if ! HAVE_VSNPRINTF /* only need this file if we don't have vsnprintf */

#define _GNU_SOURCE /* for strlen prototype */

#if HAVE_STDARG
#include <stdarg.h>
#else
#include <varargs.h>
#endif
#endif

#include <ctype.h> /* for isdigit */
#include <stddef.h> /* for ptrdiff_t */
#include <string.h>
#include <stdio.h> /* for NULL */
#include <stdlib.h>
#if HAVE_FLOAT_H
#include <float.h> /* for DBL_MAX_10_EXP etc */
#endif

#if HAVE_FLOAT_H
#include <float.h> /* for DBL_MAX_10_EXP etc */
#endif

#if HAVE_INTTYPES_H
#include <inttypes.h> /* for intmax_t */
#else
#if HAVE_STDINT_H
#include <stdint.h>
#endif
#endif

#if HAVE_SYS_TYPES_H
#include <sys/types.h> /* for quad_t */
#endif
#endif

#include "gmp.h"
#include "gmp-impl.h"

/* Autoconf notes that AIX 4.3 has a broken strnlen, but fortunately it
doesn't affect us since __gmp_replacement_vsnprintf is not required on
that system. */
#else HAVE_STRNLEN
static size_t
strnlen (const char *s, size_t n)
{
  size_t i;
  for (i = 0; i < n; i++)
    if (s[i] == '\0')
      break;
  return i;
}
#endif

/* The approach here is to parse the fmt string, and decide how much space
it requires, then use vsprintf into a big enough buffer. The space
calculated isn't an exact amount, but it's certainly no less than
required.

This code was inspired by GNU libiberty/vasprintf.c but we support more
datatypes, when available.

mingw32 - doesn't have vsnprintf, it seems. Because gcc is used a full
set of types are available, but "long double" is just a plain IEEE
64-bit "double" and LDBL_MAX_EXP_10 is correspondingly defined, so we
avoid the big 15-bit exponent estimate. */

int
__gmp_replacement_vsnprintf (char *buf, size_t buf_size,
const char *orig_fmt, va_list orig_ap)
{
  va_list ap;
  const char *fmt;
  size_t total_width, integer_sizeof, floating_sizeof, len;
  char  fchar, type;
  int   width, prec, seen_prec, double_digits, long_double_digits;
  int   *value;

  /* preserve orig_ap for use after size estimation */
  va_copy (ap, orig_ap);
fmt = orig_fmt;
total_width = strlen (fmt) + 1; /* 1 extra for the \'0\' */

integer_sizeof = sizeof (long);
#if HAVE_LONG_LONG
  integer_sizeof = MAX (integer_sizeof, sizeof (long long));
#endif
#if HAVE_QUAD_T
  integer_sizeof = MAX (integer_sizeof, sizeof (quad_t));
#endif

floating_sizeof = sizeof (double);
#if HAVE_LONG_DOUBLE
  floating_sizeof = MAX (floating_sizeof, sizeof (long double));
#endif

/* IEEE double or VAX G floats have an 11 bit exponent, so the default is
   a maximum 308 decimal digits. VAX D floats have only an 8 bit
   exponent, but we don't bother trying to detect that directly. */
double_digits = 308;
#if defined DBL_MAX_10_EXP
  /* but in any case prefer a value the compiler says */
  double_digits = DBL_MAX_10_EXP;
#endif

/* IEEE 128-bit quad, Intel 80-bit temporary, or VAX H floats all have 15
   bit exponents, so the default is a maximum 4932 decimal digits. */
long_double_digits = 4932;
#if defined LDBL_MAX_10_EXP
  /* but if double == long double, then go with that size */
  #if HAVE_LONG_DOUBLE
    if (sizeof (double) == sizeof (long double))
      long_double_digits = double_digits;
  #endif
  #ifdef LDBL_MAX_10_EXP
    /* but in any case prefer a value the compiler says */
    long_double_digits = LDBL_MAX_10_EXP;
  #endif
#endif

for (;;)
{
  fmt = strchr (fmt, '%');
  if (fmt == NULL)
    break;
  fmt++;
  type = '\0';
  width = 0;
prec = 6;
seen_prec = 0;
value = &width;

for (;;) {
    fchar = *fmt++;
    switch (fchar) {

        case 'c':
            /* char, already accounted for by strlen(fmt) */
            goto next;

        case 'd':
        case 'i':
        case 'o':
        case 'x':
        case 'X':
        case 'u':
            /* at most 3 digits per byte in hex, dec or octal, plus a sign */
            total_width += 3 * integer_sizeof + 1;

            switch (type) {
                case 'j':
                    /* Let's assume uintmax_t is the same size as intmax_t. */
                    #if HAVE_INTMAX_T
                        (void) va_arg (ap, intmax_t);
                    #else
                        ASSERT_FAIL (intmax_t not available);
                    #endif
                    break;
                case 'l':
                    (void) va_arg (ap, long);
                    break;
                case 'L':
                    #if HAVE_LONG_LONG
                        (void) va_arg (ap, long long);
                    #else
                        ASSERT_FAIL (long long not available);
                    #endif
                    break;
                case 'q':
                    /* quad_t is probably the same as long long, but let's treat
                    it separately just to be sure. Also let's assume u_quad_t
                    will be the same size as quad_t. */
                    #if HAVE_QUAD_T
                        (void) va_arg (ap, quad_t);
                    #else
                        /* ... */
ASSERT_FAIL (quad_t not available);

#endif
break;
case 't':
#if HAVE_PTRDIFF_T
(void) va_arg (ap, ptrdiff_t);
#else
ASSERT_FAIL (ptrdiff_t not available);
#endif
break;
case 'z':
(void) va_arg (ap, size_t);
break;
default:
    /* default is an "int", and this includes h=short and hh=char
since they're promoted to int in a function call */
    (void) va_arg (ap, int);
    break;
} goto next;

case 'E':
case 'e':
case 'G':
case 'g':
    /* Requested decimals, sign, point and e, plus an overestimate
of exponent digits (the assumption is all the float is
exponent!). */
    total_width += prec + 3 + floating_sizeof * 3;
    if (type == 'L')
        {
#if HAVE_LONG_DOUBLE
(void) va_arg (ap, long double);
#else
ASSERT_FAIL (long double not available);
#endif
    }
    else
        (void) va_arg (ap, long double);
    break;

case 'f':
    /* Requested decimals, sign and point, and a margin for error,
then add the maximum digits that can be in the integer part,
based on the maximum exponent value. */
    total_width += prec + 2 + 10;
    if (type == 'L')
        {
    */
#if HAVE_LONG_DOUBLE
(void) va_arg (ap, long double);
total_width += long_double_digits;
#else
ASSERT_FAIL (long double not available);
#endif

else
{
(void) va_arg (ap, double);
total_width += double_digits;
}

break;

case 'h': /* short or char */
case 'j': /* intmax_t */
case 'L': /* long long or long double */
case 'q': /* quad_t */
case 't': /* ptrdiff_t */
set_type:
  type = fchar;
break;

case 'l': /* long or long long */
  if (type != 'l')
    goto set_type;
  type = 'L'; /* "ll" means "L" */
break;

case 'n':
  /* bytes written, no output as such */
  (void) va_arg (ap, void *);
goto next;

case 's':
  /* If no precision was given, then determine the string length
     and put it there, to be added to the total under "next". If
     a precision was given then that's already the maximum from
     this field, but see whether the string is shorter than that,
     in case the limit was very big. */
{
  const char *s = va_arg (ap, const char *);
  prec = (seen_prec ? strnlen (s, prec) : strlen (s));
}
goto next;

case 'p':
/* pointer, let's assume at worst it's octal with some padding */
(void) va_arg (ap, const void *);
total_width += 3 * sizeof (void *) + 16;
goto next;

case '%':
/* literal %, already accounted for by strlen(fmt) */
goto next;

case '#':
/* showbase, at most 2 for "0x" */
total_width += 2;
break;

case '+':
case ' ': /* sign, already accounted for under numerics */
break;

case '-': /* left justify, no effect on total width */
break;

case '.': /* left justify, no effect on total width */
break;

case ':':
seen_prec = 1;
value = &prec;
break;

case '*':
{
/* negative width means left justify which can be ignored,
negative prec would be invalid, just use absolute value */
    int n = va_arg (ap, int);
    *value = ABS (n);
}
break;

case '0': case '1': case '2': case '3': case '4':
case '5': case '6': case '7': case '8': case '9':
/* process all digits to form a value */
{
    int n = 0;
    do {
        n = n * 10 + (fchar-'0');
        fchar = *fmt++;
    } while (isascii (fchar) && isdigit (fchar));
    fmt--; /* unget the non-digit */
    *value = n;
}  
break;

default:
   /* incomplete or invalid % sequence */
   ASSERT (0);
   goto next;
}  
}

next:
   total_width += width;
   total_width += prec;
}

if (total_width <= buf_size)
{
   vsprintf (buf, orig_fmt, orig_ap);
   len = strlen (buf);
}
else
{
   char *s;

   s = __GMP_ALLOCATE_FUNC_TYPE (total_width, char);
   vsprintf (s, orig_fmt, orig_ap);
   len = strlen (s);
   if (buf_size != 0)
   {
      size_t copylen = MIN (len, buf_size-1);
      memcpy (buf, s, copylen);
      buf[copylen] = '0';
   }
   (*__gmp_free_func) (s, total_width);
}

/* If total_width was somehow wrong then chances are we've already 
   clobbered memory, but maybe this check will still work. */
ASSERT_ALWAYS (len < total_width);

return len;
}

#endif /* ! HAVE_VSNPRINTF */

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1.36.1 Available under license :

/*
 * A JavaScript implementation of the RSA Data Security, Inc. MD5 Message
 * Digest Algorithm, as defined in RFC 1321.
 * Version 2.1 Copyright (C) Paul Johnston 1999 - 2002.
 * Other contributors: Greg Holt, Andrew Kepert, Ydnar, Lostinet
 * Distributed under the BSD License
 * See http://pajhome.org.uk/crypt/md5 for more info.
 */

1.37 Javascript ua 1.9
1.37.1 Available under license :

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 * $Log: ua.js,v $

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* Contributor(s): Bob Clary <bclary@netscape.com>
* ***** END LICENSE BLOCK ***** */

1.38 jffs2 1.60
1.38.1 Available under license :
/* vi: set sw=4 ts=4: */
/*
* Build a JFFS2 image in a file, from a given directory tree.
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* along with this program; if not, write to the Free Software
* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
* 
* Cross-endian support added by David Schleef <ds@schleef.org>
* 
* Major architectural rewrite by Erik Andersen <andersen@codepoet.org>
* to allow support for making hard links (though hard links support is
* not yet implemented), and for munging file permissions and ownership
* on the fly using --faketime, --squash, --devtable. And I plugged a
* few memory leaks, adjusted the error handling and fixed some little
* nits here and there.
* 
* I also added a sample device table file. See device_table.txt
* -Erik, September 2001
* 
* Cleanmarkers support added by Axis Communications AB
* 
* Rewritten again. Cleanly separated host and target filesystem
* activities (mainly so I can reuse all the host handling stuff as I
* rewrite other mkfs utils). Added a verbose option to list types
* and attributes as files are added to the file system. Major cleanup
* and scrubbing of the code so it can be read, understood, and
* modified by mere mortals.
* 
* -Erik, November 2002
*/

1.39 ledctl 1.0

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* (C) 2002-2006 by Harald Welte <laforge@gnunonks.org>
* (C) 2006 by Pablo Neira Ayuso <pablo@netfilter.org>
* *
* Based on some original ideas from Jay Schulist <jschlst@samba.org>
* *
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* *
* 2005-09-14 Pablo Neira Ayuso <pablo@netfilter.org>:
* Define structure nfnlhdr
* Added __be64_to_cpu function
* Use NFA_TYPE macro to get the attribute type
* *
* 2006-01-14 Harald Welte <laforge@netfilter.org>:
* introduce nfnl_subsys_handle
* *
* 2006-01-15 Pablo Neira Ayuso <pablo@netfilter.org>:
* set missing subsys_id in nfnl_subsys_open
* set missing nfnlh->local.nl_pid in nfnl_open
* *
* 2006-01-26 Harald Welte <laforge@netfilter.org>:
* remove bogus nfnlh->local.nl_pid from nfnl_open ;)
* add 16bit attribute functions
* *
* 2006-07-03 Pablo Neira Ayuso <pablo@netfilter.org>:
* add iterator API
* add replacements for nfnl_listen and nfnl_talk
* fix error handling

Open Source Used In RV134W router 1.0.1.17
524
* add assertions
* add documentation
* minor cleanups
*/

1.44 libpcap-1.1.1 libpcap-1.1.1

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 *
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 * Sebastian Krahmer <krahmer@cs.uni-potsdam.de>
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 *
 * Modifications: Added PACKET_MMAP support
 * Paolo Abeni <paolo.abeni@email.it>
 *
 * based on previous works of:
 * Simon Patarin <patarin@cs.unibo.it>
 * Phil Wood <cpw@lanl.gov>
 *
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*
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* By Paolo Abeni <paolo.abeni@email.it>
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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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Temple Place - Suite 330, Boston, MA 02111-1307, USA.
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@c1.cam.ac.uk)
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * 
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * 
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * 
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * 
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 * 
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*
* M. Welsh, 6 July 1996
*
*/

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The DSP/Bridge project wish to thank all of its contributors, current bridge
driver is the result of the work of all of them. If any name is accidentally
omitted, let us know by sending a mail to omar.ramirez@ti.com or
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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Linus Torvalds

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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 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...
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License. (Exception: if the Program itself is interactive but 
does not normally print such an announcement, your work based on 
the Program is not required to print an announcement.)

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and can be reasonably considered independent and separate works in 
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sections when you distribute them as separate works. But when you 
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Thus, it is not the intent of this section to claim rights or contest 
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   b) Accompany it with a written offer, valid for at least three 
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      cost of physically performing source distribution, a complete 
      machine-readable copy of the corresponding source code, to be 
      distributed under the terms of Sections 1 and 2 above on a medium 
      customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer 
      to distribute corresponding source code. (This alternative is 
      allowed only for noncommercial distribution and only if you 
      received the program in object code or executable form with such 
      an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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it under the terms of the GNU General Public License as published by
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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:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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

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

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

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

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

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

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

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

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

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

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.54 net-snmp 5.7.2

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1.57 openssl 1.0.1j

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1.58 openswan 2.6.39

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  linux/net/ipsec/deflate.c, linux/net/ipsec/deflate.h,
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* `lib/libcrypto/liboswcrypto/cryptodev.c`
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ppp-2.4.5/pppd/plugins/radius/lock.c
ppp-2.4.5/pppd/plugins/radius/options.h
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[...]
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Samba utility functions

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 * for Linux using kernel pppol2tp support.
 * 
 * Requires kernel pppol2tp driver which is integrated into the kernel
 * from 2.6.23 onwards. For earlier kernels, a version can be obtained
 * from the OpenL2TP project at
 * http://www.sourceforge.net/projects/openl2tp/
 * 
 * Original by Martijn van Oosterhout <kleptog@svana.org>
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1.61 ppp 2.4.1 :7

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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Ty Coon, President of Vice

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1.73 tcpdump 4.1.1

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1.74 uClibc 0.9.32

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

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

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 * Based on original libipq.c,
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 * Based on some original ideas from Jay Schulist <jschlst@samba.org>
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 * 2005-09-14 Pablo Neira Ayuso <pablo@netfilter.org>:
 * Define structure nfnlhdr
 * Added __be64_to_cpu function
 * Use NFA_TYPE macro to get the attribute type
 * 2006-01-14 Harald Welte <laforge@netfilter.org>:
* introduce nfnl_subsys_handle
* 
* 2006-01-15 Pablo Neira Ayuso <pablo@netfilter.org>:
* set missing subsys_id in nfnl_subsys_open
* set missing nfnlh->local.nl_pid in nfnl_open
* 
* 2006-01-26 Harald Welte <laforge@netfilter.org>:
* remove bogus nfnlh->local.nl_pid from nfnl_open ;)
* add 16bit attribute functions
* 
* 2006-07-03 Pablo Neira Ayuso <pablo@netfilter.org>:
* add iterator API
* add replacements for nfnl_listen and nfnl_talk
* fix error handling
* add assertions
* add documentation
* minor cleanups
*/
/* iftable - table of network interfaces
* 
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