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1.2 autoconf 2.65

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Version 3.0, 18 August 2009

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1.7 binutils 2.21

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a textual and legal sense, the linked executable is a combined work, a
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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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1.19 dropbear 2014-66

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* More information about curve25519 can be found here
* http://cr.yp.to/ecdh.html
*
* djb's sample implementation of curve25519 is written in a special assembly
* language called qasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
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*/

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1.26 gcc 4.6.2

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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@mtiame.mtia.oz.au), Michel Schinz, and 
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. 
Thomas Funke (thf@zelator.in-berlin.de(?)) and 
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. 
Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and 
Dave Detlef(s@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to 
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)
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# 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 {
  __addtf3
  __copysigntf3
  __divtc3
  __divtf3
  __eqtf2
  __extenddftf2
  __extendsftf2
  __extendxftf2
  __fabstf2
  __fixtfdi
  __fixtfdi
  __fixtfsi
  __fixtfsi
  __fixunstfdi
  __fixunstfdi
  __fixunstfsi
  __fixunstfsi
  __floatdftf
  __floatsftf
  __floattftf
  __floatundtftf
  __floatundsftf
  __floatunstftf
  __getf2
  __gttf2
  __letf2
  __lttf2
  __multc3
  __multf3
  __negtf2
__netf2
__powitf2
__subtf3
__trunctfdf2
__trunctfsf2
__trunctfxf2
__unordtf2
}

GCC_4.6.0 {
__addtf3
%ifndef __x86_64__
__copysigntf3
%endif
__divtc3
__divtf3
__eqtf2
__extenddftf2
__extendsftf2
__extendxftf2
%ifndef __x86_64__
__fabstf2
%endif
__fixtfdi
__fixtfsi
%ifdef __x86_64__
__fixtfti
%endif
__fixunstfdi
__fixunstfsi
%ifdef __x86_64__
__fixunstfti
%endif
__floatditf
__floatsitf
%ifdef __x86_64__
__floattitf
%endif
__floatunditf
__floatunsitf
%ifdef __x86_64__
__floatuntitf
%endif
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctfdf2
__trunctfsf2
__trunctxf2
__unordtf2
}

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That's all there is to it!

Jan 21, 2002

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b) Give prominent notice with the combined library that part of it
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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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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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is 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 for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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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.
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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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,
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the executable.

It may happen that this requirement contradicts the license
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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:

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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1.28 gmp 5.0.2
1.28.1 Available under license:

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

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#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

#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_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

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

/* Autoconf notes that AIX 4.3 has a broken strlen, but fortunately it
doesn't affect us since __gmp_replacement_vsnprintf is not required on
that system. */
#if ! 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. */

```c
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;
    #ifdef 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;
```

/* 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
#endif
#endif

/* but in any case prefer a value the compiler says */
long_double_digits = LDBL_MAX_10_EXP;
#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
}
#endif
break;
case 'T':
    (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, double);
break;
#endif

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;
#endif
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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Version 3, 29 June 2007

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   * Update OLH to finial version
   *
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   * fix license path, change version reporting to use 2 digits for each level
   *
   * Revision 1.8 2002/07/07 08:23:07 bc6ix
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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
* add assertions
* add documentation
* minor cleanups
*/

1.42 libpcap-1.1.1 libpcap-1.1.1

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

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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
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Linus Torvalds

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1.47 lzma 4.57

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

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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
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  linux/include/openswan/pfkey_debug.h, linux/net/ipsec/addrtoa.c,
  linux/net/ipsec/addrtot.c, linux/net/ipsec/addrtypeof.c,
  linux/net/ipsec/anyaddr.c, linux/net/ipsec/datatot.c,
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linux/net/ipsec/des/cbc_enc.c, linux/net/ipsec/des/des_enc.c,
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1.57 pktdma n/a

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*
* @(#)paths.h 8.1 (Berkeley) 6/2/93

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<signature of Ty Coon>, 1 April 1989
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1.72 urlfilterd 0.0.12.0
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/*
 * libipq - backwards compatibility library for libnetfilter_queue
 *
 * (C) 2005 by Harald Welte <laforge@netfilter.org>
* Based on original libipq.c,
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* libnfnetlink.c: generic library for communication with netfilter
* *
* (C) 2002-2006 by Harald Welte <laforge@gnumonks.org>
* (C) 2006 by Pablo Neira Ayuso <pablo@netfilter.org>
* *
* Based on some original ideas from Jay Schulist <jschlst@samba.org>
* *
* Development of this code funded by Astaro AG (http://www.astaro.com)
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* *
* 2005-09-14 Pablo Neira Ayuso <pablo@netfilter.org>:
* Define structure nfnhdr
* 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
*
* (C) 2004 by Astaro AG, written by Harald Welte <hwelte@astaro.com>
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*
*/

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1.75 xz 5.0.3

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