

Oracle® Communications

Subscriber-Aware Load Balancer – S-Cz9.3.0

Program Documentation – License Document

March 2024

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

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

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

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

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

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Version 2, June 1991

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Version 3, 29 June 2007

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/*

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*

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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This file is intended to contain a few notes about writing C code within GCC so that it compiles without error on the full range of compilers GCC needs to be able to compile on.

The problem is that many ISO-standard constructs are not accepted by either old or buggy compilers, and we keep getting bitten by them. This knowledge until now has been sparsely spread around, so I thought I'd collect it in one useful place. Please add and correct any problems as you come across them.

I'm going to start from a base of the ISO C90 standard, since that is probably what most people code to naturally. Obviously using constructs introduced after that is not a good idea.

For the complete coding style conventions used in GCC, please read <http://gcc.gnu.org/codingconventions.html>

String literals

Some compilers like MSVC++ have fairly low limits on the maximum length of a string literal; 509 is the lowest we've come across. You may need to break up a long printf statement into many smaller ones.

Empty macro arguments

ISO C (6.8.3 in the 1990 standard) specifies the following:

If (before argument substitution) any argument consists of no preprocessing tokens, the behavior is undefined.

This was relaxed by ISO C99, but some older compilers emit an error, so code like

```
#define foo(x, y) x y  
foo (bar, )
```

needs to be coded in some other way.

Avoid unnecessary test before free

Since SunOS 4 stopped being a reasonable portability target, (which happened around 2007) there has been no need to guard against "free (NULL)". Thus, any guard like the following constitutes a redundant test:

```
if (P)  
    free (P);
```

It is better to avoid the test.[*]
Instead, simply free P, regardless of whether it is NULL.

[*] However, if your profiling exposes a test like this in a performance-critical loop, say where P is nearly always NULL, and the cost of calling free on a NULL pointer would be prohibitively high, consider using `__builtin_expect`, e.g., like this:

```
if (__builtin_expect (ptr != NULL, 0))
    free (ptr);
```

Trigraphs

You weren't going to use them anyway, but some otherwise ISO C compliant compilers do not accept trigraphs.

Suffixes on Integer Constants

You should never use a 'l' suffix on integer constants ('L' is fine), since it can easily be confused with the number '1'.

Common Coding Pitfalls

=====

errno

errno might be declared as a macro.

Implicit int

In C, the 'int' keyword can often be omitted from type declarations.

For instance, you can write

```
unsigned variable;
```

as shorthand for

```
unsigned int variable;
```

There are several places where this can cause trouble. First, suppose 'variable' is a long; then you might think

```
(unsigned) variable
```

would convert it to unsigned long. It does not. It converts to unsigned int. This mostly causes problems on 64-bit platforms, where long and int are not the same size.

Second, if you write a function definition with no return type at all:

```
operate (int a, int b)
{
  ...
}
```

that function is expected to return int, *not* void. GCC will warn about this.

Implicit function declarations always have return type int. So if you correct the above definition to

```
void
operate (int a, int b)
...
```

but operate() is called above its definition, you will get an error about a "type mismatch with previous implicit declaration". The cure is to prototype all functions at the top of the file, or in an

appropriate header.

Char vs unsigned char vs int

In C, unqualified 'char' may be either signed or unsigned; it is the implementation's choice. When you are processing 7-bit ASCII, it does not matter. But when your program must handle arbitrary binary data, or fully 8-bit character sets, you have a problem. The most obvious issue is if you have a look-up table indexed by characters.

For instance, the character '\341' in ISO Latin 1 is SMALL LETTER A WITH ACUTE ACCENT. In the proper locale, `isalpha('\341')` will be true. But if you read '\341' from a file and store it in a plain char, `isalpha(c)` may look up character 225, or it may look up character -31. And the ctype table has no entry at offset -31, so your program will crash. (If you're lucky.)

It is wise to use unsigned char everywhere you possibly can. This avoids all these problems. Unfortunately, the routines in `<string.h>` take plain char arguments, so you have to remember to cast them back and forth - or avoid the use of `strxxx()` functions, which is probably a good idea anyway.

Another common mistake is to use either char or unsigned char to receive the result of `getc()` or related stdio functions. They may return EOF, which is outside the range of values representable by char. If you use char, some legal character value may be confused with EOF, such as '\377' (SMALL LETTER Y WITH UMLAUT, in Latin-1). The correct choice is int.

A more subtle version of the same mistake might look like this:

```
unsigned char pushback[NPUSHBACK];
int pbidx;
```

```
#define ungetc(c) (assert(pbidx < NPUSHBACK), pushback[pbidx++] = (c))
#define getc(c) (pbidx ? pushback[--pbidx] : getchar())
...
ungetc(EOF);
```

which will mysteriously turn a pushed-back EOF into a SMALL LETTER Y WITH UMLAUT.

Other common pitfalls

- o Expecting 'plain' char to be either sign or unsigned extending.

- o Shifting an item by a negative amount or by greater than or equal to the number of bits in a type (expecting shifts by 32 to be sensible has caused quite a number of bugs at least in the early days).

- o Expecting ints shifted right to be sign extended.

- o Modifying the same value twice within one sequence point.

- o Host vs. target floating point representation, including emitting NaNs and Infinities in a form that the assembler handles.

- o qsort being an unstable sort function (unstable in the sense that multiple items that sort the same may be sorted in different orders by different qsort functions).

- o Passing incorrect types to fprintf and friends.

- o Adding a function declaration for a module declared in another file to a .c file instead of to a .h file.

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expression-eval

<https://github.com/donmccurdy/expression-eval>

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jsep -

<https://github.com/soney/jsep>

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Hammer.JS

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Normalize.scss

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RequireJS i18n

<http://github.com/requirejs/i18n> for details

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select2.js

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jQuery UI -

<http://jqueryui.com>

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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<http://jquery.com/>

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JS Signals <<http://millermedeiros.github.com/js-signals/>>

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RequireJS text

<http://github.com/requirejs/text>

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RequireJS

<http://github.com/jrburke/requirejs>

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Knockout JavaScript library

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Python License

A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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