

**Oracle® Communications**

**Subscriber-Aware Load Balancer – S-Cz10.0.0**

**Program Documentation – License Document**

April 2025

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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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```
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```

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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 pidx;
#define unget(c) (assert(pidx < NPUSHBACK), pushback[pidx++] = (c))
#define get(c) (pidx ? pushback[--pidx] : getchar())
...
unget(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

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jsep -

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

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Normalize.scss

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RequireJS i18n

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

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jsTree <http://jstree.com/>

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select2.js

<https://github.com/select2/select2>

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

Author: Miller Medeiros

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Oracle Communications Subscriber-Aware Load Balancer – S-Cz10.0.0

April 2025

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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

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

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