

Document Details

Name: GNU C Library

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Version 1.0

GNU C Library

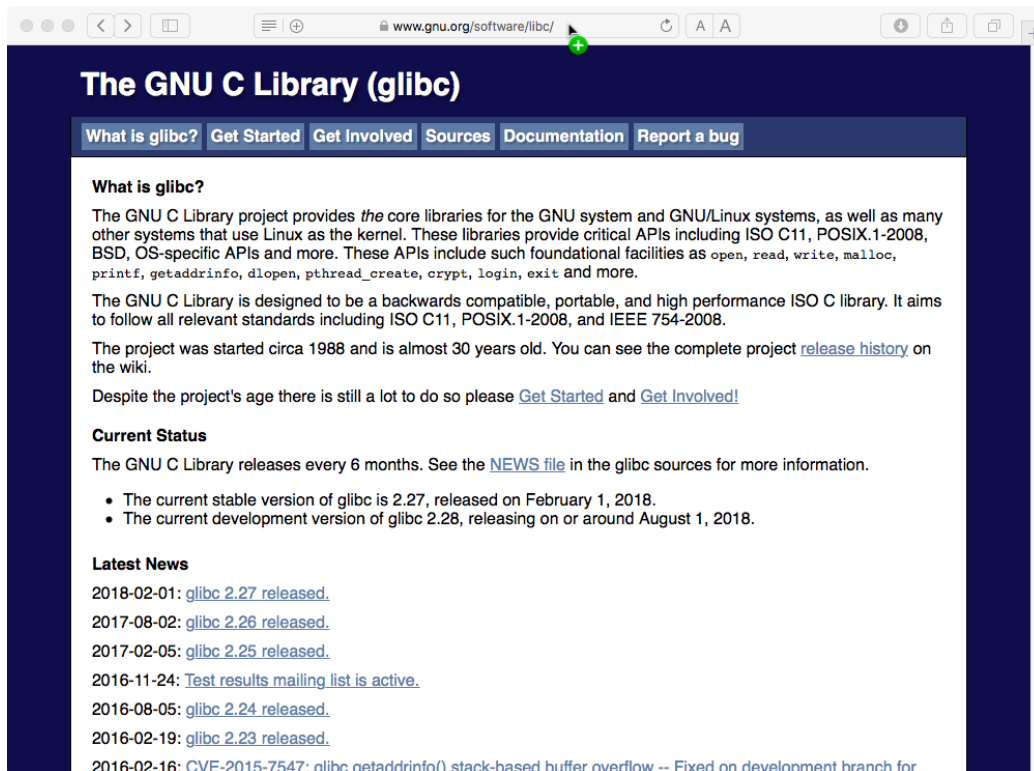
glibc

Many operations (i.e. input/output) are not part of C language. They are provided as Library with the concept of reusability. Having a source code may make more logical sense to learn about the implementation of library functions.

The GNU C Library project provides downloadable zip file or git clone of stable and old releases for the community. Know that these library functions are utilized by systems that use Linux as the kernel. If you may wish to contribute to GNU C Library as a developer, studying these files shall help you learn coding standards, techniques including optimization approaches and more.

<https://www.gnu.org/software/libc/>

<https://ftp.gnu.org/gnu/glibc/glibc-2.27.tar.gz> (As of 2018-02-01: [glibc 2.27 released.](#))



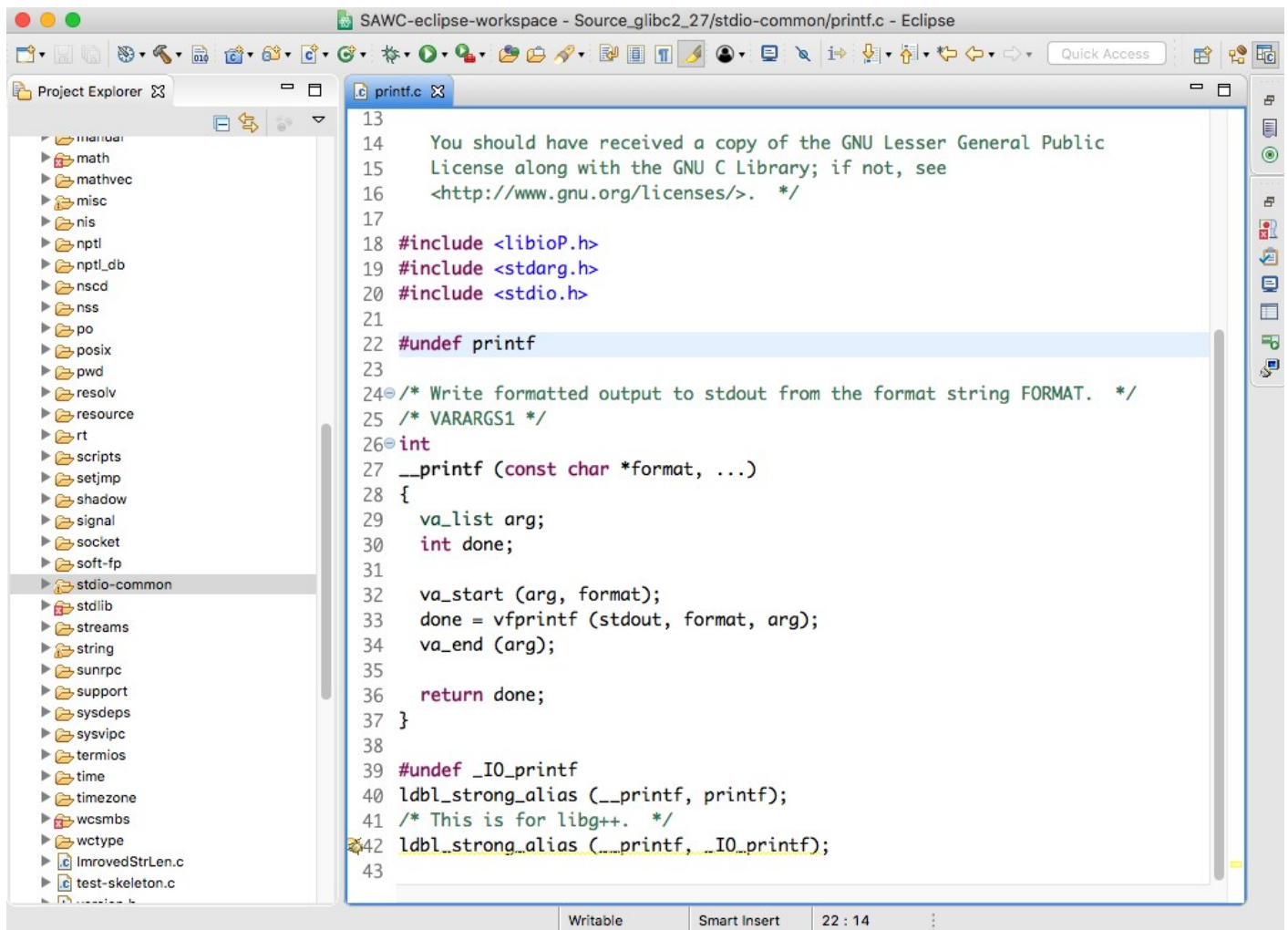
To configure, make and make install follow README and INSTALL file from the extracted folder.
[Advanced user only]

To refer to the implementation logic and flow, you may create a blank C/C++ project in eclipse.
Import all files from glibc folder into it using File->Import.

Use menu Navigate-> Resource (or corresponding keyboard shortcut) to open any resource file of your interest.

I.e. On macos using eclipse Version: Oxygen.1a Release (4.7.1a) Build id: 20171005-1200

To view code of printf method from stdio-common library, press Shift+Command+R and type in printf.c in the dialog box.



```
13
14  You should have received a copy of the GNU Lesser General Public
15  License along with the GNU C Library; if not, see
16  <http://www.gnu.org/licenses/>.  */
17
18  #include <libioP.h>
19  #include <stdarg.h>
20  #include <stdio.h>
21
22  #undef printf
23
24  /* Write formatted output to stdout from the format string FORMAT.  */
25  /* VARARGS1 */
26  int
27  __printf (const char *format, ...)
28  {
29      va_list arg;
30      int done;
31
32      va_start (arg, format);
33      done = vfprintf (stdout, format, arg);
34      va_end (arg);
35
36      return done;
37  }
38
39  #undef _IO_printf
40  ldbl_strong_alias (__printf, printf);
41  /* This is for libg++.  */
42  ldbl_strong_alias (_printf, _IO_printf);
43
```