

GNU libiberty

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1 Using

To date, `libiberty` is generally not installed on its own. It has evolved over years but does not have its own version number nor release schedule.

Possibly the easiest way to use `libiberty` in your projects is to drop the `libiberty` code into your project's sources, and to build the library along with your own sources; the library would then be linked in at the end. This prevents any possible version mismatches with other copies of `libiberty` elsewhere on the system.

Passing `--enable-install-libiberty` to the `configure` script when building `libiberty` causes the header files and archive library to be installed when `make install` is run. This option also takes an (optional) argument to specify the installation location, in the same manner as `--prefix`.

For your own projects, an approach which offers stability and flexibility is to include `libiberty` with your code, but allow the end user to optionally choose to use a previously-installed version instead. In this way the user may choose (for example) to install `libiberty` as part of GCC, and use that version for all software built with that compiler. (This approach has proven useful with software using the GNU `readline` library.)

Making use of `libiberty` code usually requires that you include one or more header files from the `libiberty` distribution. (They will be named as necessary in the function descriptions.) At link time, you will need to add `-liberty` to your link command invocation.

`void obstack_blank_fast (struct obstack *obstack_ptr, size_t size)`
Add *size* uninitialized bytes to a growing object without checking that there is enough room. See Section 2.3.1.7 [Extra Fast Growing], page 8.

`void obstack_1grow_fast (struct obstack *obstack_ptr, char data_char)`
Add one byte containing *data_char* to a growing object without checking that there is enough room. See Section 2.3.1.7 [Extra Fast Growing], page 8.

`size_t obstack_room (struct obstack *obstack_ptr)`
Get the amount of room now available for growing the current object. See Section 2.3.1.7 [Extra Fast Growing], page 8.

`size_t obstack_alignment_mask (struct obstack *obstack_ptr)`
The mask used for aligning the beginning of an object. This is an lvalue. See Section 2.3.1.9 [Obstacks Data Alignment], page 10.

`size_t obstack_chunk_size (struct obstack *obstack_ptr)`
The size for allocating chunks. This is an lvalue. See Section 2.3.1.10 [Obstack Chunks], page 11.

`void *obstack_base (struct obstack *obstack_ptr)`
Tentative starting address of the currently growing object. See Section 2.3.1.8 [Status of an Obstack], page 10.

`void *obstack_next_free (struct obstack *obstack_ptr)`
Address just after the end of the currently growing object. See Section 2.3.1.8 [Status of an Obstack], page 10.

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