

NAME

atexit - register a function to be called on exit

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <stdlib.h>
```

int

```
atexit(void (*function)(void));
```

int

```
atexit_b(void (^function)(void));
```

DESCRIPTION

The **atexit()** function registers the given *function* to be called at program exit, whether via **exit(3)** or via return from the program's **main()**. Functions so registered are called in reverse order; no arguments are passed.

These functions must not call **exit()**; if it should be necessary to terminate the process while in such a function, the **_exit(2)** function should be used. (Alternatively, the function may cause abnormal process termination, for example by calling **abort(3)**.)

At least 32 functions can always be registered, and more are allowed as long as sufficient memory can be allocated.

The **atexit_b()** function behaves identically to **atexit()**, except that it takes a block, rather than a function pointer.

RETURN VALUES

The **atexit()** function returns the value 0 if successful; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

ERRORS

[ENOMEM] No memory was available to add the function to the list. The existing list of functions is unmodified.

[ENOSYS] The **atexit_b()** function was called by a program that did not supply a **_Block_copy()** implementation.

SEE ALSO

at_quick_exit(3), exit(3)

STANDARDS

The **atexit()** function conforms to ISO/IEC 9899:1990 ("ISO C90").