



Linux Ubuntu 26.04 Manual Pages on command 'malloc_trim.3'

\$ man malloc_trim.3

malloc_trim(3) Library Functions Manual malloc_trim(3)

NAME

malloc_trim - release free memory from the heap

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <malloc.h>

int malloc_trim(size_t pad);
```

DESCRIPTION

The malloc_trim() function attempts to release free memory from the heap (by calling sbrk(2) or madvise(2) with suitable arguments).

The pad argument specifies the amount of free space to leave untrimmed at the top of the heap. If this argument is 0, only the minimum amount of memory is maintained at the top of the heap (i.e., one page or less). A nonzero argument can be used to maintain some trailing space at the top of the heap in order to allow future allocations to be made without having to extend the heap with sbrk(2).

RETURN VALUE

The malloc_trim() function returns 1 if memory was actually released back to the system, or 0 if it was not possible to release any memory.

ERRORS

No errors are defined.

ATTRIBUTES

For an explanation of the terms used in this section, see attributes(7).

[illegible]

GNU.

glibc 2.0.

Only the main heap (using `sbrk(2)`) honors the `pad` argument; thread heaps do not.

Since `glibc 2.8` this function frees memory in all arenas and in all chunks with whole free pages.

Before `glibc 2.8` this function only freed memory at the top of the heap in the main arena.

```
sbrk(2), malloc(3), mallopt(3)
```

Page 2/2