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Rocky Enterprise Linux 9.2 Manual Pages on command 'malloc_trim.3'

$ man malloc_trim.3

MALLOC_TRIM(3)   Linux Programmer's Manual   MALLOC_TRIM(3)

NAME

   malloc_trim - release free memory from the heap

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 at?

tributes(7).

??

?Interface   ? Attribute   ? Value   ?

???

?malloc_trim() ? Thread safety ? MT-Safe ?

??

CONFORMING TO

This function is a GNU extension.

NOTES

This function is automatically called by free(3) in certain circum?

stances; see the discussion of M_TOP_PAD and M_TRIM_THRESHOLD in mal?

lopt(3).

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.

SEE ALSO

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

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A

description of the project, information about reporting bugs, and the

latest version of this page, can be found at

https://www.kernel.org/doc/man-pages/.

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