.TH LIBRARY 3 04/08/2020 library "Library Function"

.SH NAME

get\_alloc() - library function that calls the system call get\_level\_alloc

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set\_alloc() - library function that calls the system call set\_level\_alloc

.SH SYNOPSIS

get\_alloc(int level)

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set\_alloc(int level, int new\_allocation)

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level - integer process level based on the tag’s LSBs

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new\_allocation - an int time value to be updated in the allocation time at the level

.SH DESCRIPTION

get\_alloc()

Invokes the system call which reads the allocation time at a given level. Returns the time on success and -1 on failure. The get\_alloc library function acts as a wrapper function for the system call get\_level\_alloc and returns the value that was obtained

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set\_tag()

Invokes system call which attempts to change the allocation time at a given level. Returns the changed time on success and -1 on failure. The set\_alloc library function acts as a wrapper function for the system call set\_level\_alloc and returns the value that was obtained

.SH ERRORS/ERRNOS

For any errors, any condition were to fail which it then would return -1.

Such cases include but not limited too:

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Inputting an invalid level or new\_allocation. The main checking occurs through the system call rather than in the library function.

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ERRNOS:

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1=EPERM: attempted in put of time less than 0ms.

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13=EACCESS: not in super root access level.

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22=EINVAL: invalid argument.

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132=sum of allocation time of all levels is less than 5ms.

.SH NOTES

a) The library functions act as wrappers for the system calls.

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b) Errno set to an unused value to explain the failure.

.SH SEE ALSO

get\_level\_alloc(2)

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set\_level\_alloc(2)

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