.TH HARNESS 3 03/01/2020 harness "Harness Function"

.SH NAME

retrieve\_get\_tag\_params() - harness function that returns the parameters used to make the system call get\_tag

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retrieve\_set\_tag\_params() - harness function that returns the parameters used to make the system call set\_tag

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interpret\_get\_tag\_result() - harness function that interpretation the returning value from the system call get\_tag

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interpret\_set\_tag\_result() - harness function that interpretation the returning value from the system call set\_tag

.SH SYNOPSIS

retrieve\_get\_tag\_params(int pid)

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retrieve\_set\_tag\_params(int pid, int new\_tag)

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interpret\_get\_tag\_result(int ret\_value)

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interpret\_set\_tag\_result(int ret\_value)

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pid - integer process id of target process

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new\_tag - an uint32\_t tag value to be updated in the target process

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ret\_value - what the library call should return to the user program

.SH DESCRIPTION

These functions serve as a testing harness to verify the system calls.

System call parameter retrieval data shall be returned as a pointer to an int array of 2-4 values that can be used to m$The array has this format:

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{call\_number, num\_parameters, [parameter1], [parameter2]} e.g.:{42, 2, 867, 5309} -> syscall(42, 867, 5309)

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retrieve\_get\_tag\_params(int pid)

Returns an int array of 2-4 values that can be used to make the get-tag system call.

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retrieve\_set\_tag\_params(int pid, int new\_tag)

Returns an int array of 2-4 values that can be used to make the set-tag system call

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interpret\_get\_tag\_result(int ret\_value)

After making the get\_tag system call, the syscall return value to this function call. It should return get\_tag’$

(i.e., what the library call should return to the user program).

.SH ERRORS

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 pid or new\_tag. The main checking occurs through the system call rather than in the system call.

.SH NOTES

There are several contradictions within the guideline. The ruling outcome is as given:

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a) The returning value is the tag of from the system call, not the "access level". .PP

b) The 2 interpretation result function will simply return the outcome of the system call.

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c) retrieve\_get\_tag\_params(int pid) will return an int array of 3 values.

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d) retrieve\_set\_tag\_params(int pid, int new\_tag) will return an int array of 4 values.

.SH SEE ALSO

get\_tag(2), get\_tag(3)

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set\_tag(2), set\_tag(3)

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