

## Re: [patch] remove MNT\_NOEXEC check for PROT\_EXEC mmap

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-10/msg01136.html>

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- *From:* [daw@xxxxxxxxxxxxxxxxxx](mailto:daw@xxxxxxxxxxxxxxxxxx) (David Wagner)
  - *Date:* Wed, 4 Oct 2006 03:17:59 +0000 (UTC)
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Stas Sergeev wrote:

Arjan van de Ven wrote:

no what bothers me that on the one hand you want no execute from the partition, and AT THE SAME TIME want stuff to execute from there (being libraries or binaries, same thing to me).

The original problem came from "noexec" on /dev/shm mount. There is no library and no binary there, but the programs do shm\_open(), ftruncate() and mmap(MAP\_SHARED, PROT\_EXEC) to get some shared memory with an exec perm. That fails.

To be honest, I still don't think you've answered Arjan's question. Ok, so you say it is not a library and not a binary. So what is it that you are mapping in as executable, and why do you think it is reasonable to ask the Linux kernel to allow you to execute it, if it lives on a noexec partition? Whatever it is, you are executing it, and the goal of noexec is to prevent execution of code that lives on a noexec partition, so what you want to do seems in direct opposition to the goal of noexec.

Arjan's point is that what you want to do is take code that lives on a noexec partition and execute it. Isn't that exactly against the whole point of noexec?

Or, to put it another way, if you want to execute code off of some partition, why do you want to be able to mark it as noexec? What is the point of marking it noexec, when you're going to be executing code off of it? Why not just mark it exec and be done with it? What are your goals here? Or, to put it yet another way, what problem are you trying to solve (and why isn't marking the partition exec a satisfactory solution to that problem)?

I think Arjan's question is a fair one and I think he deserves a straight answer to his question. I don't think he should have to ask it three

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times.

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