
Subject: Re: [PATCH] Fix some kallsyms_lookup() vs rmmod races
Posted by [Paulo Marques](#) on Thu, 15 Mar 2007 16:53:59 GMT
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Alexey Dobriyan wrote:

> [cc'ing folks whose proc files are affected]

>

> kallsyms_lookup() can call module_address_lookup() which iterates over
> modules list without module_mutex taken. Comment at the top of
> module_address_lookup() says it's for oops resolution so races are
> irrelevant, but in some cases it's reachable from regular code:

So maybe we should just add a new parameter to "kallsyms_lookup" to inform it if it is safe to take a mutex or not.

Spreading module_mutex everywhere doesn't seem like the right interface for several reasons:

- new users of "kallsyms_lookup" might not be aware that they should take module_mutex if it is safe

- many times we will be taking module_mutex even when we are fetching a kernel symbol that shouldn't require the mutex at all

- it just creates new dependencies (hint: this patch shouldn't even compile with current git since module_mutex is not declared in module.h, not to mention compile when CONFIG_MODULES not set)

IMHO we should not expose module_mutex outside of module.c. That is just wrong from an encapsulation point of view.

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"667: The neighbor of the beast."
