
Subject: Re: Kernel text size with pid namespace
Posted by [Carl-Daniel Hailfinger](#) on Fri, 21 Sep 2007 11:31:54 GMT
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On 20.09.2007 11:13, Pavel Emelyanov wrote:

> sukaddev@us.ibm.com wrote:

>>

>> The pid-namespace patchset (<http://lkml.org/lkml/2007/8/10/118>)

>> was added to the -mm tree in 2.6.23-rc3-mm1.

>>

>> With CONFIG_CC_OPTIMIZE_FOR_SIZE=y this patchset increases the kernel
>> text size by about 5K (closer to 6K when the config token is set to N).

>

> Well, this is a new functionality, so the vmlinux size has to increase.

> And as Matt has noticed 5k is not that bad :)

Speaking with my LinuxBIOS hat on, even 1kB more can be the critical code portion which causes the Linux kernel not to fit onto a BIOS ROM chip any more. We already optimize for size and use LZMA compression to fit a kernel onto an 1MB chip.

>> We also do not have a config token to select pid namespace (its always
>> enabled).

>

> This was one of Andrew's requirements. However, I assume that we can
> have the cloning code under this option.

If all new code which increases text size can be disabled via config options, I'm happy. However, I fear that some size increase will be unavoidable even with the config token disabled. As long as that doesn't end up being more than 0.5kB or at maximum 1kB, it will be probably OK.

Thanks for taking size issues into consideration!

Regards,
Carl-Daniel

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Containers@lists.linux-foundation.org
<https://lists.linux-foundation.org/mailman/listinfo/containers>
