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Subject: Re: Kernel text size with the pid namespaces fixes  
Posted by [Pavel Emelianov](#) on Tue, 25 Sep 2007 14:28:33 GMT  
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Cedric Le Goater wrote:

> Hello Pavel !

>

> Pavel Emelyanov wrote:

>> Hi, Suka

>>

>> I have posted tree patches with un-inlining of some macros

>> and static inline calls that are expanded into another call.

>>

>> At my i386 notebook this saved about half-a-kilo from the

>> vmlinux. Could you please check these patches at your

>> boxes/configs to see how much progress we have here.

>>

>> Here's the combined patch for 2.6.24-rc8-mm1

>

> on my qemu configuration, scripts/bloat-o-meter gave the following

> results.

>

> it would be interesting to run some micro benchmark. Did you have

> time to do that ?

We did. We ran an nptl test and it showed no performance degradation.

This was expected - I didn't introduce new "call"-s in this patch. See,  
all the unlined macros called some function at the end. I just moved  
the whole code (with the preparations) into a call.

> Thanks,

>

> C.

>

> add/remove: 9/0 grow/shrink: 3/47 up/down: 194/-683 (-489)

| > function            | old | new | delta |
|-----------------------|-----|-----|-------|
| > find_task_by_vpid   | -   | 29  | +29   |
| > find_vpid           | -   | 25  | +25   |
| > task_tgid_nr_ns     | -   | 22  | +22   |
| > task_session_nr_ns  | -   | 22  | +22   |
| > task_pgrp_nr_ns     | -   | 22  | +22   |
| > find_task_by_pid    | -   | 19  | +19   |
| > task_pid_nr_ns      | -   | 16  | +16   |
| > find_task_by_pid_ns | -   | 16  | +16   |
| > find_pid            | -   | 15  | +15   |
| > proc_task_readdir   | 762 | 766 | +4    |
| > msg_exit_ns         | 117 | 119 | +2    |
| > _request_firmware   | 688 | 690 | +2    |

```

> nfs_readpage_truncate_uninitialised_page 298 297 -1
> sys_swapoff 1898 1896 -2
> set_get_cmap 332 330 -2
> __iovec_copy_from_user_inatomic 88 86 -2
> proc_pid_readdir 438 434 -4
> init_pit_clocksource 82 78 -4
> do_notify_parent_cldstop 297 293 -4
> do_notify_parent 394 390 -4
> kill_proc 39 34 -5
> sys_timer_create 720 713 -7
> do_setlink 796 789 -7
> debug_rt_mutex_print_deadlock 406 399 -7
> check_clock 122 115 -7
> rest_init 78 69 -9
> posix_cpu_clock_get 221 212 -9
> __set_special_pids 154 144 -10
> vma_adjust 855 844 -11
> tty_ioctl 3274 3263 -11
> kthreadd 248 237 -11
> sys_kill 313 301 -12
> sys_capget 285 273 -12
> sys_getsid 128 114 -14
> sys_getpgid 128 114 -14
> posix_cpu_timer_create 240 226 -14
> kill_proc_info 45 31 -14
> find_get_pid 31 16 -15
> sys_sched_getscheduler 92 76 -16
> sys_sched_getparam 143 127 -16
> sys_get_robust_list 149 133 -16
> sched_setaffinity 259 243 -16
> sched_getaffinity 114 98 -16
> ptrace_get_task_struct 90 74 -16
> futex_lock_pi 2435 2419 -16
> f_setown 68 52 -16
> do_tkill 280 264 -16
> do_sched_setscheduler 113 97 -16
> sys_sched_rr_get_interval 161 141 -20
> sys_capset 702 681 -21
> eligible_child 215 191 -24
> do_task_stat 2135 2107 -28
> sys_setpriority 446 416 -30
> sys_setpgid 419 389 -30
> sys_ioprio_set 471 441 -30
> sys_ioprio_get 388 358 -30
> sys_getpriority 439 409 -30
> proc_pid_status 1216 1186 -30
> do_wait 2677 2639 -38
>

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