Subject: Kernel text size with the pid namespaces fixes
Posted by Pavel Emelianov on Tue, 25 Sep 2007 11:00:49 GMT
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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

Thanks,
Pavel

---

```
diff --git a/fs/ioprio.c b/fs/ioprio.c
index 0a615f8..d6ff77e 100644
--- a/fs/ioprio.c
+++ b/fs/ioprio.c
@@ -94,8 +94,7 @@ asmlinkage long sys_ioprio_set(int which
    if (!who)
     p = current;
    else
-    p = find_task_by_pid_ns(who,
-      current->nsproxy->pid_ns);
+    p = find_task_by_vpid(who);
    if (p)
     ret = set_task_ioprio(p, ioprio);
    break;
@@ -182,8 +181,7 @@ asmlinkage long sys_ioprio_get(int which
    if (!who)
     p = current;
    else
-    p = find_task_by_pid_ns(who,
-      current->nsproxy->pid_ns);
+    p = find_task_by_vpid(who);
    if (p)
     ret = get_task_ioprio(p);
    break;
diff --git a/include/linux/pid.h b/include/linux/pid.h
index 4817c66..e29a900 100644
--- a/include/linux/pid.h
+++ b/include/linux/pid.h
```

```
@@ -110,9 +110,8 @@ extern struct pid_namespace init_pid_ns;
  * see also find_task_by_pid() set in include/linux/sched.h
  */
 extern struct pid *FASTCALL(find_pid_ns(int nr, struct pid_namespace *ns));
-
-#define find_vpid(pid) find_pid_ns(pid, current->nsproxy->pid_ns)
-#define find_pid(pid) find_pid_ns(pid, &init_pid_ns)
+extern struct pid *find_vpid(int nr);
+extern struct pid *find_pid(int nr);

 /*
  * Lookup a PID in the hash table, and return with it's count elevated.
diff --git a/include/linux/sched.h b/include/linux/sched.h
index fe238fb..61d65c6 100644
--- a/include/linux/sched.h
+++ b/include/linux/sched.h
@@ -1228,11 +1228,7 @@ static inline pid_t task_pid_nr(struct t
  return tsk->pid;
 }

-static inline pid_t task_pid_nr_ns(struct task_struct *tsk,
-  struct pid_namespace *ns)
-{
- return pid_nr_ns(task_pid(tsk), ns);
-}
+pid_t task_pid_nr_ns(struct task_struct *tsk, struct pid_namespace *ns);

 static inline pid_t task_pid_vnr(struct task_struct *tsk)
 {
@@ -1245,11 +1241,7 @@ static inline pid_t task_tgid_nr(struct
  return tsk->tgid;
 }

-static inline pid_t task_tgid_nr_ns(struct task_struct *tsk,
-  struct pid_namespace *ns)
-{
- return pid_nr_ns(task_tgid(tsk), ns);
-}
+pid_t task_tgid_nr_ns(struct task_struct *tsk, struct pid_namespace *ns);

 static inline pid_t task_tgid_vnr(struct task_struct *tsk)
 {
@@ -1262,11 +1254,7 @@ static inline pid_t task_pgrp_nr(struct
  return tsk->signal->__pgrp;
 }

-static inline pid_t task_pgrp_nr_ns(struct task_struct *tsk,
-  struct pid_namespace *ns)
```

```
-{
- return pid_nr_ns(task_pgrp(tsk), ns);
-}
+pid_t task_pgrp_nr_ns(struct task_struct *tsk, struct pid_namespace *ns);

 static inline pid_t task_pgrp_vnr(struct task_struct *tsk)
 {
@@ -1279,11 +1267,7 @@ static inline pid_t task_session_nr(stru
  return tsk->signal->__session;
 }

-static inline pid_t task_session_nr_ns(struct task_struct *tsk,
-  struct pid_namespace *ns)
-{
- return pid_nr_ns(task_session(tsk), ns);
-}
+pid_t task_session_nr_ns(struct task_struct *tsk, struct pid_namespace *ns);

 static inline pid_t task_session_vnr(struct task_struct *tsk)
 {
@@ -1505,9 +1489,8 @@ extern struct pid_namespace init_pid_ns;
  *      type and namespace specified
  * find_task_by_pid_ns():
  *      finds a task by its pid in the specified namespace
- * find_task_by_pid_type():
- *      finds a task by its global id with the specified type, e.g.
- *      by global session id
+ * find_task_by_vpid():
+ *      finds a task by its virtual pid
  * find_task_by_pid():
  *      finds a task by its global pid
  *
@@ -1517,12 +1500,10 @@ extern struct pid_namespace init_pid_ns;
  extern struct task_struct *find_task_by_pid_type_ns(int type, int pid,
    struct pid_namespace *ns);

-#define find_task_by_pid_ns(nr, ns) \
-  find_task_by_pid_type_ns(PIDTYPE_PID, nr, ns)
-#define find_task_by_pid_type(type, nr) \
-  find_task_by_pid_type_ns(type, nr, &init_pid_ns)
-#define find_task_by_pid(nr)  \
-  find_task_by_pid_type(PIDTYPE_PID, nr)
+extern struct task_struct *find_task_by_pid(pid_t nr);
+extern struct task_struct *find_task_by_vpid(pid_t nr);
+extern struct task_struct *find_task_by_pid_ns(pid_t nr,
+  struct pid_namespace *ns);

 extern void __set_special_pids(pid_t session, pid_t pgrp);
```

```
diff --git a/kernel/capability.c b/kernel/capability.c
index 0440d6d..4a881b8 100644
--- a/kernel/capability.c
+++ b/kernel/capability.c
@@ -63,8 +63,7 @@ asmlinkage long sys_capget(cap_user_head
  read_lock(&tasklist_lock);

  if (pid && pid != task_pid_vnr(current)) {
-  target = find_task_by_pid_ns(pid,
-    current->nsproxy->pid_ns);
+  target = find_task_by_vpid(pid);
   if (!target) {
    ret = -ESRCH;
    goto out;
@@ -97,7 +96,7 @@ static inline int cap_set_pg(int pgrp_nr
  int found = 0;
  struct pid *pgrp;

- pgrp = find_pid_ns(pgrp_nr, current->nsproxy->pid_ns);
+ pgrp = find_vpid(pgrp_nr);
  do_each_pid_task(pgrp, PIDTYPE_PGID, g) {
   target = g;
   while_each_thread(g, target) {
@@ -198,8 +197,7 @@ asmlinkage long sys_capset(cap_user_head
  read_lock(&tasklist_lock);

  if (pid > 0 && pid != task_pid_vnr(current)) {
-  target = find_task_by_pid_ns(pid,
-    current->nsproxy->pid_ns);
+  target = find_task_by_vpid(pid);
   if (!target) {
    ret = -ESRCH;
    goto out;
diff --git a/kernel/futex.c b/kernel/futex.c
index 0c1b777..0d51412 100644
--- a/kernel/futex.c
+++ b/kernel/futex.c
@@ -444,9 +444,7 @@ static struct task_struct * futex_find_g
  struct task_struct *p;

  rcu_read_lock();
- p = find_task_by_pid_ns(pid,
-   current->nsproxy->pid_ns);
-
+ p = find_task_by_vpid(pid);
  if (!p || ((current->euid != p->euid) && (current->euid != p->uid)))
   p = ERR_PTR(-ESRCH);
```

```
  else
@@ -1856,8 +1854,7 @@ sys_get_robust_list(int pid, struct robu

   ret = -ESRCH;
   rcu_read_lock();
-  p = find_task_by_pid_ns(pid,
-    current->nsproxy->pid_ns);
+  p = find_task_by_vpid(pid);
   if (!p)
    goto err_unlock;
   ret = -EPERM;
diff --git a/kernel/futex_compat.c b/kernel/futex_compat.c
index a21e766..d64f7c3 100644
--- a/kernel/futex_compat.c
+++ b/kernel/futex_compat.c
@@ -118,8 +118,7 @@ compat_sys_get_robust_list(int pid, comp

   ret = -ESRCH;
   read_lock(&tasklist_lock);
-  p = find_task_by_pid_ns(pid,
-    current->nsproxy->pid_ns);
+  p = find_task_by_vpid(pid);
   if (!p)
    goto err_unlock;
   ret = -EPERM;
diff --git a/kernel/pid.c b/kernel/pid.c
index e2e060e..d7388d7 100644
--- a/kernel/pid.c
+++ b/kernel/pid.c
@@ -302,6 +302,18 @@ struct pid * fastcall find_pid_ns(int nr
 }
 EXPORT_SYMBOL_GPL(find_pid_ns);

+struct pid *find_vpid(int nr)
+{
+ return find_pid_ns(nr, current->nsproxy->pid_ns);
+}
+EXPORT_SYMBOL_GPL(find_vpid);
+
+struct pid *find_pid(int nr)
+{
+ return find_pid_ns(nr, &init_pid_ns);
+}
+EXPORT_SYMBOL_GPL(find_pid);
+
 /*
  * attach_pid() must be called with the tasklist_lock write-held.
  */
```

```
@@ -368,6 +380,25 @@ struct task_struct *find_task_by_pid_typ

 EXPORT_SYMBOL(find_task_by_pid_type_ns);

+struct task_struct *find_task_by_pid(pid_t nr)
+{
+ return find_task_by_pid_type_ns(PIDTYPE_PID, nr, &init_pid_ns);
+}
+EXPORT_SYMBOL(find_task_by_pid);
+
+struct task_struct *find_task_by_vpid(pid_t vnr)
+{
+ return find_task_by_pid_type_ns(PIDTYPE_PID, vnr,
+    current->nsproxy->pid_ns);
+}
+EXPORT_SYMBOL(find_task_by_vpid);
+
+struct task_struct *find_task_by_pid_ns(pid_t nr, struct pid_namespace *ns)
+{
+ return find_task_by_pid_type_ns(PIDTYPE_PID, nr, ns);
+}
+EXPORT_SYMBOL(find_task_by_pid_ns);
+
 struct pid *get_task_pid(struct task_struct *task, enum pid_type type)
 {
  struct pid *pid;
@@ -412,6 +443,30 @@ pid_t pid_nr_ns(struct pid *pid, struct
  return nr;
 }

+pid_t task_pid_nr_ns(struct task_struct *tsk, struct pid_namespace *ns)
+{
+ return pid_nr_ns(task_pid(tsk), ns);
+}
+EXPORT_SYMBOL(task_pid_nr_ns);
+
+pid_t task_tgid_nr_ns(struct task_struct *tsk, struct pid_namespace *ns)
+{
+ return pid_nr_ns(task_tgid(tsk), ns);
+}
+EXPORT_SYMBOL(task_tgid_nr_ns);
+
+pid_t task_pgrp_nr_ns(struct task_struct *tsk, struct pid_namespace *ns)
+{
+ return pid_nr_ns(task_pgrp(tsk), ns);
+}
+EXPORT_SYMBOL(task_pgrp_nr_ns);
+
```

```
+pid_t task_session_nr_ns(struct task_struct *tsk, struct pid_namespace *ns)
+{
+ return pid_nr_ns(task_session(tsk), ns);
+}
+EXPORT_SYMBOL(task_session_nr_ns);
+
 /*
  * Used by proc to find the first pid that is greater then or equal to nr.
  *
diff --git a/kernel/ptrace.c b/kernel/ptrace.c
index 812f1f3..593afeb 100644
--- a/kernel/ptrace.c
+++ b/kernel/ptrace.c
@@ -444,8 +444,7 @@ struct task_struct *ptrace_get_task_stru
   return ERR_PTR(-EPERM);

  read_lock(&tasklist_lock);
- child = find_task_by_pid_ns(pid,
-   current->nsproxy->pid_ns);
+ child = find_task_by_vpid(pid);
  if (child)
   get_task_struct(child);

diff --git a/kernel/sched.c b/kernel/sched.c
index f22a216..b23c30f 100644
--- a/kernel/sched.c
+++ b/kernel/sched.c
@@ -4186,8 +4186,7 @@ struct task_struct *idle_task(int cpu)
  */
 static inline struct task_struct *find_process_by_pid(pid_t pid)
 {
- return pid ?
-  find_task_by_pid_ns(pid, current->nsproxy->pid_ns) : current;
+ return pid ? find_task_by_vpid(pid) : current;
 }

 /* Actually do priority change: must hold rq lock. */
diff --git a/kernel/signal.c b/kernel/signal.c
index c5d72be..c308c2d 100644
--- a/kernel/signal.c
+++ b/kernel/signal.c
@@ -2237,7 +2237,7 @@ static int do_tkill(int tgid, int pid, i
  info.si_uid = current->uid;

  read_lock(&tasklist_lock);
- p = find_task_by_pid_ns(pid, current->nsproxy->pid_ns);
+ p = find_task_by_vpid(pid);
  if (p && (tgid <= 0 || task_tgid_vnr(p) == tgid)) {
```

```
   error = check_kill_permission(sig, &info, p);
   /*
diff --git a/kernel/sys.c b/kernel/sys.c
index 787b73e..796299c 100644
--- a/kernel/sys.c
+++ b/kernel/sys.c
@@ -151,8 +151,7 @@ asmlinkage long sys_setpriority(int whic
  switch (which) {
   case PRIO_PROCESS:
    if (who)
-    p = find_task_by_pid_ns(who,
-      current->nsproxy->pid_ns);
+    p = find_task_by_vpid(who);
    else
     p = current;
    if (p)
@@ -209,8 +208,7 @@ asmlinkage long sys_getpriority(int whic
  switch (which) {
   case PRIO_PROCESS:
    if (who)
-    p = find_task_by_pid_ns(who,
-      current->nsproxy->pid_ns);
+    p = find_task_by_vpid(who);
    else
     p = current;
    if (p) {
@@ -1065,7 +1063,8 @@ asmlinkage long sys_setsid(void)
   * session id and so the check will always fail and make it so
   * init cannot successfully call setsid.
   */
- if (session > 1 && find_task_by_pid_type(PIDTYPE_PGID, session))
+ if (session > 1 && find_task_by_pid_type_ns(PIDTYPE_PGID,
+    session, &init_pid_ns))
   goto out;

  group_leader->signal->leader = 1;
diff --git a/mm/mempolicy.c b/mm/mempolicy.c
index a09ca3b..c1592a9 100644
--- a/mm/mempolicy.c
+++ b/mm/mempolicy.c
@@ -941,8 +941,7 @@ asmlinkage long sys_migrate_pages(pid_t

  /* Find the mm_struct */
  read_lock(&tasklist_lock);
- task = pid ?
-  find_task_by_pid_ns(pid, current->nsproxy->pid_ns) : current;
+ task = pid ? find_task_by_vpid(pid) : current;
  if (!task) {
```

```
   read_unlock(&tasklist_lock);
   return -ESRCH;
diff --git a/mm/migrate.c b/mm/migrate.c
index 6f7e4f3..7fff95d 100644
--- a/mm/migrate.c
+++ b/mm/migrate.c
@@ -931,8 +931,7 @@ asmlinkage long sys_move_pages(pid_t pid

  /* Find the mm_struct */
  read_lock(&tasklist_lock);
- task = pid ?
-  find_task_by_pid_ns(pid, current->nsproxy->pid_ns) : current;
+ task = pid ? find_task_by_vpid(pid) : current;
  if (!task) {
   read_unlock(&tasklist_lock);
   return -ESRCH;
```

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Containers@lists.linux-foundation.org
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Subject: Re: Kernel text size with the pid namespaces fixes
Posted by Cedric Le Goater on Tue, 25 Sep 2007 12:48:01 GMT
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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 ?

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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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
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>> I have posted tree patches with un-inlining of some macros
>> and static inline calls that are expanded into another call.
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>> boxes/configs to see how much progress we have here.
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>> 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 uninlined 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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Subject: Re: Kernel text size with the pid namespaces fixes
Posted by Pavel Emelianov on Tue, 25 Sep 2007 14:32:44 GMT
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Cedric Le Goater wrote:
> Hello Pavel !
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> Pavel Emelyanov wrote:
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> 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

I see you have an interesting effect as well. Look, if you generate
the .i file for mm/swapfile.c (the one where sys_swapoff is) for
two cases - with and without this patch - you will see that the
.i files differ in one place only - the find_task_xxx calls have
transformed from macros into extern calls and (!) no places in
this sys_swapoff() use them.

The question is - WHY its size changed?
Why gcc produces different code on the same input?

BTW, you're lucky - your sys_swapoff shrank, but mine grew up just
like yours msg_exit_ns() which has nothing to do with the functions
changed :(

> 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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Containers mailing list
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