
Subject: + use-struct-pid-parameter-in-copy_process.patch added to -mm tree
Posted by [akpm](#) on Thu, 15 Mar 2007 19:54:40 GMT

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The patch titled

Use struct pid parameter in copy_process()
has been added to the -mm tree. Its filename is
use-struct-pid-parameter-in-copy_process.patch

*** Remember to use Documentation/SubmitChecklist when testing your code ***

See <http://www.zip.com.au/~akpm/linux/patches/stuff/added-to-mm.txt> to find
out what to do about this

Subject: Use struct pid parameter in copy_process()
From: Sukadev Bhattiprolu <sukadev@us.ibm.com>

Modify copy_process() to take a struct pid * parameter instead of a pid_t.
This simplifies the code a bit and also avoids having to call find_pid() to
convert the pid_t to a struct pid.

Changelog:

- Fixed Badari Pulavarty's comments and passed in &init_struct_pid from fork_idle().
- Fixed Eric Biederman's comments and simplified this patch and used a new patch to remove the likely(pid) check.

Signed-off-by: Sukadev Bhattiprolu <sukadev@us.ibm.com>

Cc: Cedric Le Goater <clg@fr.ibm.com>

Cc: Dave Hansen <haveblue@us.ibm.com>

Cc: Serge Hallyn <serue@us.ibm.com>

Cc: Eric Biederman <ebiederm@xmission.com>

Cc: <containers@lists.osdl.org>

Acked-by: Eric W. Biederman <ebiederm@xmission.com>

Signed-off-by: Andrew Morton <akpm@linux-foundation.org>

kernel/fork.c | 11 ++++++-----

1 file changed, 6 insertions(+), 5 deletions(-)

diff -puN kernel/fork.c~use-struct-pid-parameter-in-copy_process kernel/fork.c

--- a/kernel/fork.c~use-struct-pid-parameter-in-copy_process

+++ a/kernel/fork.c

@@ -956,7 +956,7 @@ static struct task_struct *copy_process(
 unsigned long stack_size,
 int __user *parent_tidptr,
 int __user *child_tidptr,

```

-   int pid)
+   struct pid *pid)
{
    int retval;
    struct task_struct *p = NULL;
@@ -1023,7 +1023,7 @@ static struct task_struct *copy_process(
    p->did_exec = 0;
    delayacct_tsk_init(p); /* Must remain after dup_task_struct() */
    copy_flags(clone_flags, p);
- p->pid = pid;
+ p->pid = pid_nr(pid);

    INIT_LIST_HEAD(&p->children);
    INIT_LIST_HEAD(&p->sibling);
@@ -1254,7 +1254,7 @@ static struct task_struct *copy_process(
    list_add_tail_rcu(&p->tasks, &init_task.tasks);
    __get_cpu_var(process_counts)++;
}
- attach_pid(p, PIDTYPE_PID, find_pid(p->pid));
+ attach_pid(p, PIDTYPE_PID, pid);
    nr_threads++;
}

@@ -1325,7 +1325,8 @@ struct task_struct * __cpuinit fork_idle
    struct task_struct *task;
    struct pt_regs regs;

- task = copy_process(CLONE_VM, 0, idle_regs(&regs), 0, NULL, NULL, 0);
+ task = copy_process(CLONE_VM, 0, idle_regs(&regs), 0, NULL, NULL,
+   &init_struct_pid);
    if (!IS_ERR(task))
        init_idle(task, cpu);

@@ -1353,7 +1354,7 @@ long do_fork(unsigned long clone_flags,
    return -EAGAIN;
    nr = pid->nr;

- p = copy_process(clone_flags, stack_start, regs, stack_size, parent_tidptr, child_tidptr, nr);
+ p = copy_process(clone_flags, stack_start, regs, stack_size, parent_tidptr, child_tidptr, pid);
    /*
     * Do this prior waking up the new thread - the thread pointer
     * might get invalid after that point, if the thread exits quickly.

```

Patches currently in -mm which might be from sukadev@us.ibm.com are

attach_pid-with-struct-pid-parameter.patch
statically-initialize-struct-pid-for-swapper.patch

explicitly-set-pgid-and-sid-of-init-process.patch
use-struct-pid-parameter-in-copy_process.patch
remove-the-likelypid-check-in-copy_process.patch
use-task_pgrp-task_session-in-copy_process.patch
kill-unused-session-and-group-values-in-rocket-driver.patch
fix-some-coding-style-errors-in-autofs.patch
replace-pid_t-in-autofs-with-struct-pid-reference.patch

Containers mailing list

Containers@lists.osdl.org

<https://lists.osdl.org/mailman/listinfo/containers>
