
Subject: Re: [RFC][PATCH 4/6] Initialize struct pid_nr for swapper
Posted by [Herbert Poetzl](#) on Sat, 10 Mar 2007 22:09:08 GMT
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On Fri, Mar 09, 2007 at 07:59:24PM -0800, sukadev@us.ibm.com wrote:

>
> From: Sukadev Bhattiprolu <sukadev@us.ibm.com>
> Subject: [RFC][PATCH 4/6] Initialize struct pid_nr for swapper.
>
> Statically initialize a struct pid_nr for the swapper process.

does that actually satisfy procfs needs too, or
just the abstract internal references?

because if it is enough to make procfs happy, this
would be a viable solution for the lightweight guest
case (as fake init process) too, which doesn't require
a blend through functionality anymore, and would allow
to make the pid isolation complete without wasting
any resources ...

TIA,
Herbert

> 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: containers@lists.osdl.org

> ---
> include/linux/init_task.h | 7 +++++++
> kernel/pid.c | 1 +
> 2 files changed, 8 insertions(+)
>
> Index: lx26-20-mm2b/include/linux/init_task.h

> =====
> --- lx26-20-mm2b.orig/include/linux/init_task.h 2007-03-08 17:56:05.000000000 -0800
> +++ lx26-20-mm2b/include/linux/init_task.h 2007-03-09 14:56:11.000000000 -0800
> @@ -96,6 +96,12 @@ extern struct group_info init_groups;
> #define INIT_PREEMPT_RCU
> #endif
>
> +#define INIT_STRUCT_PID_NR { \\\br/>> + .node = { .next = NULL, .pprev = NULL }, \\\br/>> + .nr = 0, \\\br/>> + .pid_ns = &init_pid_ns, \\\br/>> +}
> +

```

> #define INIT_STRUCT_PID { \
> .count = ATOMIC_INIT(1), \
> .nr = 0, \
> @@ -106,6 +112,7 @@ extern struct group_info init_groups;
> { .first = &init_task.pids[PIDTYPE_PGID].node }, \
> { .first = &init_task.pids[PIDTYPE_SID].node }, \
> }, \
> + .pid_nrs = { .first = &init_struct_pid_nr.node }, \
> .rcu = RCU_HEAD_INIT, \
> }
>
> Index: lx26-20-mm2b/kernel/pid.c
> =====
> --- lx26-20-mm2b.orig/kernel/pid.c 2007-03-08 17:56:57.000000000 -0800
> +++ lx26-20-mm2b/kernel/pid.c 2007-03-09 14:56:33.000000000 -0800
> @@ -34,6 +34,7 @@ static struct hlist_head *pid_hash;
> static int pidhash_shift;
> static struct kmem_cache *pid_cachep;
> static struct kmem_cache *pid_nr_cachep;
> +struct pid_nr init_struct_pid_nr = INIT_STRUCT_PID_NR;
> struct pid init_struct_pid = INIT_STRUCT_PID;
>
> int pid_max = PID_MAX_DEFAULT;
>

```

> Containers mailing list
 > Containers@lists.osdl.org
 > <https://lists.osdl.org/mailman/listinfo/containers>

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