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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 { \\\n/>> + .node = { .next = NULL, .pprev = NULL }, \\\n/>> + .nr = 0, \\\n/>> + .pid\_ns = &init\_pid\_ns, \\\n/>> +}  
> +

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> #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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