
Subject: [RFC][PATCH 05/14] Initialize struct pid_nr for swapper
Posted by [Sukadev Bhattiprolu](#) on Wed, 21 Mar 2007 03:19:38 GMT
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From: Sukadev Bhattiprolu <sukadev@us.ibm.com>
Subject: [RFC][PATCH 05/14] Initialize struct pid_nr for swapper.

Statically initialize a struct pid_nr for the swapper process.

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

include/linux/init_task.h | 10 ++++++++
kernel/pid.c | 1 +
2 files changed, 11 insertions(+)

Index: 2.6.21-rc3-mm2/include/linux/init_task.h

```
=====
--- 2.6.21-rc3-mm2.orig/include/linux/init_task.h
+++ 2.6.21-rc3-mm2/include/linux/init_task.h
@@ -96,6 +96,15 @@ extern struct group_info init_groups;
#define INIT_PREEMPT_RCU
#endif

+#define INIT_STRUCT_PID_NR { \
+ .node = { .next = NULL, .pprev = NULL }, \
+ .nr = 0, \
+ /* Don't put this struct pid in pid_hash */ \
+ .pid_chain = { .next = NULL, .pprev = NULL }, \
+ .pid_ns = &init_pid_ns, \
+ .pid = &init_struct_pid, \
+ }
+
#define INIT_STRUCT_PID { \
    .count = ATOMIC_INIT(1), \
    .nr = 0, \
@@ -106,6 +115,7 @@ 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: 2.6.21-rc3-mm2/kernel/pid.c

```
=====
--- 2.6.21-rc3-mm2.orig/kernel/pid.c
+++ 2.6.21-rc3-mm2/kernel/pid.c
@@ -34,6 +34,7 @@ static struct hlist_head *pid_hash;
```

```
static int pidhash_shift;
static struct kmem_cache *pid_cache;
static struct kmem_cache *pid_nr_cache;
+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;
```

```
--
```

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