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_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;

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