
Subject: - statically-initialize-struct-pid-for-swapper.patch removed from -mm tree
Posted by [akpm](#) on Sat, 12 May 2007 05:34:28 GMT

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The patch titled
 statically initialize struct pid for swapper
has been removed from the -mm tree. Its filename was
 statically-initialize-struct-pid-for-swapper.patch

This patch was dropped because it was merged into mainline or a subsystem tree

Subject: statically initialize struct pid for swapper
From: Sukadev Bhattiprolu <sukadev@us.ibm.com>

Statically initialize a struct pid for the swapper process (pid_t == 0) and attach it to init_task. This is needed so task_pid(), task_pgrp() and task_session() interfaces work on the swapper process also.

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```
include/linux/init_task.h | 27 ++++++
include/linux/pid.h       |  2 ++
kernel/pid.c              |  2 ++
3 files changed, 31 insertions(+)
```

diff -puN include/linux/init_task.h~statically-initialize-struct-pid-for-swapper include/linux/init_task.h
--- a/include/linux/init_task.h~statically-initialize-struct-pid-for-swapper
+++ a/include/linux/init_task.h
@@ -88,6 +88,28 @@ extern struct nsproxy init_nsproxy;

extern struct group_info init_groups;

+#define INIT_STRUCT_PID { \\\n+ .count = ATOMIC_INIT(1), \\\n+ .nr = 0, \\\n+ /* Don't put this struct pid in pid_hash */ \\\n+ .pid_chain = { .next = NULL, .pprev = NULL }, \\\n+ .tasks = { \\\n

```

+ { .first = &init_task.pids[PIDTYPE_PID].node }, \
+ { .first = &init_task.pids[PIDTYPE_PGID].node }, \
+ { .first = &init_task.pids[PIDTYPE_SID].node }, \
+ }, \
+ .rcu = RCU_HEAD_INIT, \
+}
+
+#define INIT_PID_LINK(type) \
+{ \
+ .node = { \
+ .next = NULL, \
+ .pprev = &init_struct_pid.tasks[type].first, \
+ }, \
+ .pid = &init_struct_pid, \
+}
+
/*
 * INIT_TASK is used to set up the first task table, touch at
 * your own risk!. Base=0, limit=0x1ffff (=2MB)
@@ -139,6 +161,11 @@ extern struct group_info init_groups;
 .cpu_timers = INIT_CPU_TIMERS(tsk.cpu_timers), \
 .fs_excl = ATOMIC_INIT(0), \
 .pi_lock = __SPIN_LOCK_UNLOCKED(tsk.pi_lock), \
+ .pids = { \
+ [PIDTYPE_PID] = INIT_PID_LINK(PIDTYPE_PID), \
+ [PIDTYPE_PGID] = INIT_PID_LINK(PIDTYPE_PGID), \
+ [PIDTYPE_SID] = INIT_PID_LINK(PIDTYPE_SID), \
+ }, \
 INIT_TRACE_IRQFLAGS \
 INIT_LOCKDEP \
}
diff -puN include/linux/pid.h~statically-initialize-struct-pid-for-swapper include/linux/pid.h
--- a/include/linux/pid.h~statically-initialize-struct-pid-for-swapper
+++ a/include/linux/pid.h
@@ -51,6 +51,8 @@ struct pid
 struct rcu_head rcu;
};

+extern struct pid init_struct_pid;
+
struct pid_link
{
struct hlist_node node;
diff -puN kernel/pid.c~statically-initialize-struct-pid-for-swapper kernel/pid.c
--- a/kernel/pid.c~statically-initialize-struct-pid-for-swapper
+++ a/kernel/pid.c
@@ -27,11 +27,13 @@
#include <linux/bootmem.h>

```

```
#include <linux/hash.h>
#include <linux/pid_namespace.h>
+#include <linux/init_task.h>

#define pid_hashfn(nr) hash_long((unsigned long)nr, pidhash_shift)
static struct hlist_head *pid_hash;
static int pidhash_shift;
static struct kmem_cache *pid_cache;
+struct pid init_struct_pid = INIT_STRUCT_PID;

int pid_max = PID_MAX_DEFAULT;
```

—

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

origin.patch

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