
Subject: [PATCH 5/8] Invoke the ipcns notifier chain as a work item
Posted by [Nadia Derby](#) on Mon, 11 Feb 2008 14:16:51 GMT
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[PATCH 05/08]

This patch makes the memory hotplug chain's mutex held for a shorter time:
when memory is offlined or onlined a work item is added to the global
workqueue.

When the work item is run, it notifies the ipcns notifier chain with the
IPCNS_MEMCHANGED event.

Signed-off-by: Nadia Derby <Nadia.Derbey@bull.net>

ipc/util.c | 15 ++++++++
1 file changed, 14 insertions(+), 1 deletion(-)

Index: linux-2.6.24-mm1/ipc/util.c

=====

--- linux-2.6.24-mm1.orig/ipc/util.c 2008-02-08 08:15:35.000000000 +0100
+++ linux-2.6.24-mm1/ipc/util.c 2008-02-08 14:14:03.000000000 +0100
@@ -58,6 +58,14 @@ atomic_t nr_ipc_ns = ATOMIC_INIT(1);

#ifdef CONFIG_MEMORY_HOTPLUG

```
+static void ipc_memory_notifier(struct work_struct *work)
+{
+ ipcns_notify(IPCNS_MEMCHANGED);
+}
+
+static DECLARE_WORK(ipc_memory_wq, ipc_memory_notifier);
+
+static int ipc_memory_callback(struct notifier_block *self,
+    unsigned long action, void *arg)
+{
@@ -67,8 +75,13 @@ static int ipc_memory_callback(struct no
/*
 * This is done by invoking the ipcns notifier chain with the
 * IPC_MEMCHANGED event.
+ * In order not to keep the lock on the hotplug memory chain
+ * for too long, queue a work item that will, when waken up,
+ * activate the ipcns notification chain.
+ * No need to keep several ipc work items on the queue.
 */
- ipcns_notify(IPCNS_MEMCHANGED);
+ if (!work_pending(&ipc_memory_wq))
```

```
+ schedule_work(&ipc_memory_wq);  
  break;  
case MEM_GOING_ONLINE:  
case MEM_GOING_OFFLINE:
```

```
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```

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