
Subject: [RFC][PATCH v2 5/7] Invoke the ipcns notifier chain as a work item
Posted by [Nadia Derby](#) on Thu, 31 Jan 2008 13:40:23 GMT
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[PATCH 05/07]

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 | 17 ++++++++
1 file changed, 15 insertions(+), 2 deletions(-)

Index: linux-2.6.24/ipc/util.c

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--- linux-2.6.24.orig/ipc/util.c 2008-01-31 11:04:51.000000000 +0100

+++ linux-2.6.24/ipc/util.c 2008-01-31 11:41:01.000000000 +0100

@@ -57,6 +57,14 @@ 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)

{

@@ -65,9 +73,14 @@ static int ipc_memory_callback(struct no

case MEM_OFFLINE: /* or offline: it's time to recompute msgmni */
/*

* This is done by invoking the ipcns notifier chain with the

- * IPC_MEMCHANGED event

+ * 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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