Subject: [patch -mm 5/5] mqueue namespace : make sysctl work per namespace
Posted by Cedric Le Goater on Tue, 02 Oct 2007 08:46:13 GMT
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From: Cedric Le Goater <clg@fr.ibm.com>

Largely inspired from ipc/ipc_sysctl.c

Todo:
- check CONFIG_* options
- move code to ipc/mqueue_sysctl.c ?

Signed-off-by: Cedric Le Goater <clg@fr.ibm.com>
---
ipc/mqueue.c | 40 ++++++++++++++++++++++++++++++++++++++---
1 file changed, 37 insertions(+), 3 deletions(-)

Index: 2.6.23-rc8-mm2/ipc/mqueue.c
===
--- 2.6.23-rc8-mm2.orig/ipc/mqueue.c
+++ 2.6.23-rc8-mm2/ipc/mqueue.c
@@ -1260,6 +1260,40 @@ static struct file_system_type mqueue_fs
.kill_sb = kill_litter_super,
};

+static void *get_mq(ctl_table *table)
+{
+ char *which = table->data;
+ struct mq_namespace *mq_ns = current->nsproxy->mq_ns;
+ which = (which - (char *)&init_mq_ns) + (char *)mq_ns;
+ return which;
+}
+
+#ifdef CONFIG_PROC_FS
+static int proc_mq_dointvec(ctl_table *table, int write, struct file *filp,
+ void __user *buffer, size_t *lenp, loff_t *ppos)
+{
+ struct ctl_table mq_table;
+ memcpy(&mq_table, table, sizeof(mq_table));
+ mq_table.data = get_mq(table);
+
+ return proc_dointvec(&mq_table, write, filp, buffer, lenp, ppos);
+}
+
+static int proc_mq_dointvec_minmax(ctl_table *table, int write,
+ struct file *filp, void __user *buffer, size_t *lenp, loff_t *ppos)
+{
+ struct ctl_table mq_table;

```
+ memcpy(&mq_table, table, sizeof(mq_table));
+ mq_table.data = get_mq(table);
+
+ return proc_dointvec_minmax(&mq_table, write, filp, buffer,
+     lenp, ppos);
+}
+#else
+#define proc_mq_dointvec_minmax NULL
+#define proc_mq_dointvec NULL
+#endif
+
 static int msg_max_limit_min = DFLT_MSGMAX;
 static int msg_max_limit_max = HARD_MSGMAX;

@@ -1272,14 +1306,14 @@ static ctl_table mq_sysctls[] = {
   .data  = &init_mq_ns.queues_max,
   .maxlen  = sizeof(int),
   .mode  = 0644,
-  .proc_handler = &proc_dointvec,
+  .proc_handler = &proc_mq_dointvec,
  },
  {
   .procname = "msg_max",
   .data  = &init_mq_ns.msg_max,
   .maxlen  = sizeof(int),
   .mode  = 0644,
-  .proc_handler = &proc_dointvec_minmax,
+  .proc_handler = &proc_mq_dointvec_minmax,
   .extra1  = &msg_max_limit_min,
   .extra2  = &msg_max_limit_max,
  },
@@ -1288,7 +1322,7 @@ static ctl_table mq_sysctls[] = {
   .data  = &init_mq_ns.msgsize_max,
   .maxlen  = sizeof(int),
   .mode  = 0644,
-  .proc_handler = &proc_dointvec_minmax,
+  .proc_handler = &proc_mq_dointvec_minmax,
   .extra1  = &msg_maxsize_limit_min,
   .extra2  = &msg_maxsize_limit_max,
  },

--
```

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