
Subject: [PATCH v3 09/10] ipc: add new MSG_SET_COPY command for sys_msgctl() call

Posted by [Stanislav Kinsbursky](#) on Fri, 10 Aug 2012 14:26:07 GMT

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New MSG_SET_COPY allows to set specified queue copy counter to passed value. Passed "struct msqid_ds *buf" interpreted as pointer to unsigned int in this case.

```
include/linux/msg.h | 1 +
ipc/compat.c        | 3 +++
ipc/msg.c           | 18 ++++++
3 files changed, 22 insertions(+), 0 deletions(-)
```

diff --git a/include/linux/msg.h b/include/linux/msg.h

index 07a5e1e..4e9ddf4 100644

--- a/include/linux/msg.h

+++ b/include/linux/msg.h

@@ -7,6 +7,7 @@

#define MSG_STAT 11

#define MSG_INFO 12

#define MSG_SET 13

+#define MSG_SET_COPY 14

/* msgrcv options */

#define MSG_NOERROR 010000 /* no error if message is too big */

diff --git a/ipc/compat.c b/ipc/compat.c

index 6b07f5c..9e5acc7 100644

--- a/ipc/compat.c

+++ b/ipc/compat.c

@@ -481,6 +481,9 @@ long compat_sys_msgctl(int first, int second, void __user *uptr)

case IPC_INFO:

case IPC_RMID:

case MSG_INFO:

+#ifdef CONFIG_CHECKPOINT_RESTORE

+ case MSG_SET_COPY:

+#endif

err = sys_msgctl(first, second, uptr);

break;

diff --git a/ipc/msg.c b/ipc/msg.c

index 44ba0ce..c63b22e 100644

--- a/ipc/msg.c

+++ b/ipc/msg.c

@@ -579,6 +579,24 @@ SYSCALL_DEFINE3(msgctl, int, msqid, int, cmd, struct msqid_ds __user *, buf)

case MSG_SET:

err = msgctl_down(ns, msqid, cmd, buf, version);

```
    return err;
#ifdef CONFIG_CHECKPOINT_RESTORE
+ case MSG_SET_COPY:
+ {
+   int copy_cnt;
+
+   if (!buf)
+     return -EFAULT;
+   if (get_user(copy_cnt, (unsigned int *)buf))
+     return -EFAULT;
+
+   msq = msg_lock(ns, msqid);
+   if (IS_ERR(msq))
+     return PTR_ERR(msq);
+   msq->q_copy_cnt = copy_cnt;
+   err = 0;
+   break;
+ }
#endif
default:
    return -EINVAL;
}
```
