

[patch 2/7] dasd_eer: use mutex instead of semaphore

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-05/msg13785.html>

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 - *Date:* Thu, 31 May 2007 16:20:26 +0200
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drivers/s390/block/dasd_eer.c | 16 ++++++-----
1 file changed, 8 insertions(+), 8 deletions(-)

Index: quilt-2.6/drivers/s390/block/dasd_eer.c

```
=====
--- quilt-2.6.orig/drivers/s390/block/dasd_eer.c
+++ quilt-2.6/drivers/s390/block/dasd_eer.c
@@ -14,9 +14,9 @@
#include <linux/moduleparam.h>
#include <linux/device.h>
#include <linux/poll.h>
+#include <linux/mutex.h>

#include <asm/uaccess.h>
-#include <asm/semaphore.h>
#include <asm/atomic.h>
#include <asm/ebcdic.h>

@@ -514,7 +514,7 @@ void dasd_eer_disable(struct dasd_device
* to transfer in a readbuffer, which is protected by the readbuffer_mutex.
*/
static char readbuffer[PAGE_SIZE];
-static DECLARE_MUTEX(readbuffer_mutex);
+static DEFINE_MUTEX(readbuffer_mutex);

static int dasd_eer_open(struct inode *inp, struct file *filp)
{
@@ -579,7 +579,7 @@ static ssize_t dasd_eer_read(struct file
struct eerbuffer *eerb;

eerb = (struct eerbuffer *) filp->private_data;
- if (down_interruptible(&readbuffer_mutex))
```

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```
+ if (mutex_lock_interruptible(&readbuffer_mutex))
return -ERESTARTSYS;

spin_lock_irqsave(&bufferlock, flags);
@@ -588,7 +588,7 @@ static ssize_t dasd_eer_read(struct file
/* has been deleted */
eerb->residual = 0;
spin_unlock_irqrestore(&bufferlock, flags);
- up(&readbuffer_mutex);
+ mutex_unlock(&readbuffer_mutex);
return -EIO;
} else if (eerb->residual > 0) {
/* OK we still have a second half of a record to deliver */
@@ -602,7 +602,7 @@ static ssize_t dasd_eer_read(struct file
if (!tc) {
/* no data available */
spin_unlock_irqrestore(&bufferlock, flags);
- up(&readbuffer_mutex);
+ mutex_unlock(&readbuffer_mutex);
if (filp->f_flags & O_NONBLOCK)
return -EAGAIN;
rc = wait_event_interruptible(
@@ -610,7 +610,7 @@ static ssize_t dasd_eer_read(struct file
eerb->head != eerb->tail);
if (rc)
return rc;
- if (down_interruptible(&readbuffer_mutex))
+ if (mutex_lock_interruptible(&readbuffer_mutex))
return -ERESTARTSYS;
spin_lock_irqsave(&bufferlock, flags);
}
@@ -626,11 +626,11 @@ static ssize_t dasd_eer_read(struct file
spin_unlock_irqrestore(&bufferlock, flags);

if (copy_to_user(buf, readbuffer, effective_count)) {
- up(&readbuffer_mutex);
+ mutex_unlock(&readbuffer_mutex);
return -EFAULT;
}

- up(&readbuffer_mutex);
+ mutex_unlock(&readbuffer_mutex);
return effective_count;
}
```

—
blue skies,
Martin.

"Reality continues to ruin my life." – Calvin.

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