
Subject: [PATCH I2O] memory leak in i2o_exec_lct_modified

Posted by [vaverin](#) on Sat, 04 Mar 2006 08:26:54 GMT

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i2o_exec_lct_modified() does not release memory allocated for work_struct.

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Thank you,
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--- ./drivers/message/i2o/exec-osm.c.i2ml 2006-03-04 11:09:45.000000000 +0300

+++ ./drivers/message/i2o/exec-osm.c 2006-03-04 11:09:03.000000000 +0300

```
@@ -57,6 +57,11 @@ struct i2o_exec_wait {
    struct list_head list; /* node in global wait list */
};
```

```
+struct i2o_workqueue {
+ struct work_struct work;
+ struct i2o_controller *c;
+};
+
```

```
/* Exec OSM class handling definition */
static struct i2o_class_id i2o_exec_class_id[] = {
    {I2O_CLASS_EXECUTIVE},
@@ -355,16 +360,19 @@ static int i2o_exec_remove(struct device
    * new LCT and if the buffer for the LCT was to small sends a LCT NOTIFY
    * again, otherwise send LCT NOTIFY to get informed on next LCT change.
    */
```

```
-static void i2o_exec_lct_modified(struct i2o_controller *c)
```

```
+static void i2o_exec_lct_modified(void *data)
```

```
{
    u32 change_ind = 0;
+ struct i2o_workqueue *cp;
```

```
- if (i2o_device_parse_lct(c) != -EAGAIN)
- change_ind = c->lct->change_ind + 1;
+ cp = (struct i2o_workqueue *)data;
+ if (i2o_device_parse_lct(cp->c) != -EAGAIN)
+ change_ind = cp->c->lct->change_ind + 1;
```

```
#ifdef CONFIG_I2O_LCT_NOTIFY_ON_CHANGES
```

```
- i2o_exec_lct_notify(c, change_ind);
+ i2o_exec_lct_notify(cp->c, change_ind);
#endif
+ kfree(cp);
```

```

};

/**
@@ -410,16 +418,22 @@ static int i2o_exec_reply(struct i2o_con
    return i2o_msg_post_wait_complete(c, m, msg, context);

    if ((le32_to_cpu(msg->u.head[1]) >> 24) == I2O_CMD_LCT_NOTIFY) {
- struct work_struct *work;
+ struct i2o_workqueue *cp;

    pr_debug("%s: LCT notify received\n", c->name);

- work = kmalloc(sizeof(*work), GFP_ATOMIC);
- if (!work)
+ cp = kmalloc(sizeof(struct i2o_workqueue), GFP_ATOMIC);
+ if (!cp)
    return -ENOMEM;

- INIT_WORK(work, (void (*)(void *))i2o_exec_lct_modified, c);
- queue_work(i2o_exec_driver.event_queue, work);
+ cp->c = c;
+ INIT_WORK(&cp->work, i2o_exec_lct_modified, cp);
+ if (!queue_work(i2o_exec_driver.event_queue, &cp->work)) {
+ printk(KERN_DEBUG "i2o_exec_reply:"
+ " call to queue_work() failed.\n");
+ kfree(cp);
+ return -EIO;
+ }
    return 1;
}

```
