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FX Program

This tip is to provide you with the command syntax's and description of the functions of the FX program. This program is useful for testing Hard drive and MOD drives for media errors.

At the LX login screen enter the following:

login: **root <CR>**
Password: **operator <CR>**

IRIX Release 6.5 IP30 UMMS
Copyright 1987-2002 Silicon Graphics, Inc. All Rights Reserved.
Last login: Mon Sep 22 15:18:19 CDT 2008 by UNKNOWN@10.0.0.5

UMMS 1#

In order to test a drive, CDROM or MOD we first need to know it SCSI assignment. To do this perform the following:

UMMS 2# **cd /export/home/sdc/bin <CR>**

UMMS 3# **scsistat <CR>**

```
Device 0 1 Disk    SGI    QUANTUM XP34550W FW Rev: LXY4
Device 0 2 Disk    SGI    IBM DDRS-34560W  FW Rev: S96A
Device 1 1 Disk    SEAGATE ST39216N      FW Rev: 0010
Device 1 3 CD-ROM  TEAC   CD-ROM CD-532S  FW Rev: 1.0A
```

Breakdown:

The first numeric value equates to the ctrl# for the "fx" program

"Device **1** 1 Disk SEAGATE ST39216N FW Rev: 0010"

Device 0 equates to ctrl # 0 Device 1 equates to ctrl# 1

The second value equates to drive# for the "fx" program

"Device 1 **1** Disk SEAGATE ST39216N FW Rev: 0010"

UMMS 4# fx -x

To test a MOD drive enter the following:

```
fx version 6.5, Jan 8, 2002
fx: "device-name" = (dksc) <CR>
fx: ctlr# = (0) 1 <CR>
fx: drive# = (1) 6 <CR>
fx: lun# = (0) 0 <CR>
```

```
...opening dksc(1,1,0)
...drive selftest...OK
```



Exercise caution using this program. It can destroy data on a drive.

```
----- please choose one (? for help, .. to quit this menu)-----
[exi]t          [d]ebug/          [l]abel/          [a]uto
[b]adblock/     [exe]rcise/       [r]epartition/
fx> exe <CR>
```

```
----- please choose one (? for help, .. to quit this menu)-----
[b]utterfly     [seq]quential     [set]testpat
[e]rrlog        [st]op_on_error   [sh]owtestpat
[r]andom        [m]iscompares     [c]omplete
fx/exercise> r <CR>
```

```
fx/exercise/random: modifier = (rd-only) <CR>
fx/exercise/random: starting block# = (0) <CR>
fx/exercise/random: nblocks = (17941842) <CR>
fx/exercise/random: nscans = (1) <CR>
```

```
random pass 1: scanning [0, 17941842] (17941842 blocks)
0%.....10%.....20%.....30%.....40%.....50%.....
60%.....70%.....80%.....90%.....100%
```



Time for testing depends on drive capacity. The unit in this example is a 9gb drive, which ran for approximately 1 hour

----- please choose one (? for help, .. to quit this menu)-----
[b]utterfly [seq]uential [set]testpat
[e]rrlog [st]op_on_error [sh]owtestpat
[r]andom [m]iscompares [c]omplete
fx/exercise> .. <CR>