

# Monitor Storage Devices in Deep Archive Environments...

- Query storage device usage and errors
- Record daily storage device status in a database
- Display storage device status on webpage and allow users to specify filters for different views
- Send email to alert administrator when errors and thresholds detected

# Display storage device status and allow users to specify different views

Start:    End:

Total drives:126 Filters:No Last updated:2016-08-22

<u>Mover</u>	<u>Device</u>	<u>Address</u>	<u>Type</u>	<u>Loads</u>	<u>Power Hrs</u>	<u>Mot Hrs</u>	<u>Mot Meter ▼</u>	<u>Cln Hrs</u>	<u>Cleans</u>
rcfmvr10	/dev/st4	1,8,1,2	IBM-LTO5	36,461	22,462	6,481	163,025,848	93	61
rcfmvr08	/dev/st6	1,15,1,1	IBM-LTO5	36,013	21,431	6,257	156,205,192	121	60
rcfmvr12	/dev/st6	1,11,1,1	IBM-LTO5	35,664	19,732	5,827	150,005,960	33	51
acfmvr06	/dev/st0	2,7,1,12	IBM-LTO4	12,669	30,757	9,540	137,834,119	8	1024
rcfmvr07	/dev/st3	1,12,1,12	IBM-LTO5	34,129	19,919	5,377	137,700,006	114	47
rcfmvr12	/dev/st5	1,15,1,12	IBM-LTO5	33,351	18,243	5,037	131,341,040	88	40
rcfmvr09	/dev/st0	1,13,1,15	IBM-LTO6	11,098	19,080	5,210	117,815,162	99	42
rcfmvr07	/dev/st0	1,12,1,14	IBM-LTO6	11,008	19,078	5,183	117,430,798	5	44
rcfmvr08	/dev/st0	1,13,1,13	IBM-LTO6	10,968	17,423	5,180	117,264,643	64	43
rcfmvr06	/dev/st2	1,14,1,2	IBM-LTO6	11,510	19,052	5,179	117,241,684	109	42
rcfmvr07	/dev/st6	1,14,1,12	IBM-LTO5	30,993	16,028	4,485	117,202,460	77	35
rcfmvr09	/dev/st2	1,15,1,14	IBM-LTO6	11,209	19,079	5,111	116,653,373	66	42

# Example...

- `lsscsi -g | grep tape`

```
[4:0:2:0]    tape    IBM      ULTRIUM-TD6      E4J0  /dev/st5  /dev/sg10
[4:0:3:0]    tape    IBM      ULTRIUM-TD6      E4J0  /dev/st6  /dev/sg12
```

```
sg_logs -p0x14 /dev/sg12
```

```
IBM          ULTRIUM-TD6      E4J0
```

```
Device statistics page (ssc-3 and adc)
```

```
Lifetime media loads: 1963
```

```
Lifetime cleaning operations: 4
```

```
Lifetime power on hours: 5365
```

```
Lifetime media motion (head) hours: 620
```

```
Lifetime metres of tape processed: 11613215
```

```
Lifetime media motion (head) hours when incompatible media last loaded: 0
```

```
Lifetime power on hours when last temperature condition occurred: 0
```

```
Lifetime power on hours when last power consumption condition occurred: 0
```

```
Media motion (head) hours since last successful cleaning operation: 35
```