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Disk Replacement on PDB Cluster

Saturday's (12.03.2005) intervention on PDB Cluster:

1. In order to stop flood of emails I commented out the following line in the '/etc/mail/aliases' file

```
root: pdb-sysadmin@cern.ch,root@
```

2. To check whether the problem is really due to a disk failure I connected as root to dbst37 (the storage box mentioned in e-mails) and executed the following commands:

```
dbst37:/:<56>vol stat
```

```
v0 u1d1 u1d2 u1d3 u1d4 u1d5 u1d6 u1d7 u1d8 u1d9
unmounted 0 0 0 0 4 0 0 0 0
```

```
dbst37:/:<57>fru list
```

```
ID TYPE VENDOR MODEL REVISION SERIAL
```

```
-----
ulctr controller card 0301 501-5710-02( 0200/020106 116028
u1d1 disk drive SEAGATE ST336605FSUN A638 3FP1RL19
u1d2 disk drive SEAGATE ST336605FSUN A638 3FP1RSJJ
u1d3 disk drive SEAGATE ST336605FSUN A638 3FP1RPZM
u1d4 disk drive SEAGATE ST336605FSUN A638 3FP1RRX6
u1d5 disk drive
u1d6 disk drive SEAGATE ST336605FSUN A638 3FP106ZV
u1d7 disk drive SEAGATE ST336605FSUN A638 3FP1RS2L
u1d8 disk drive SEAGATE ST336605FSUN A638 3FP1RRW9
u1d9 disk drive SEAGATE ST336605FSUN A638 3FP1RRRJ
u111 loop card SLR-MI 375-0085-01- 5.02 Flash 098201
u112 loop card SLR-MI 375-0085-01- 5.02 Flash 098928
ulpcul power/cooling unit TECTROL-CAN 300-1454-04( 0000 055393
ulpcu2 power/cooling unit TECTROL-CAN 300-1454-04( 0000 076139
ulmpn mid plane SLR-MI 370-3990-02- 0000 053952
```

```
dbst37:/:<58>fru stat
```

```
CTRL STATUS STATE ROLE PARTNER TEMP
```

```
-----
ulctr ready enabled master - 40.0
```

```
DISK STATUS STATE ROLE PORT1 PORT2 TEMP VOLUME
```

```
-----
u1d1 ready enabled data disk ready ready 39 v0
u1d2 ready enabled data disk ready ready 37 v0
u1d3 ready enabled data disk ready ready 36 v0
u1d4 ready enabled data disk ready ready 36 v0
u1d5 fault enabled data disk bypass bypass - v0
u1d6 ready enabled data disk ready ready 35 v0
u1d7 ready enabled data disk ready ready 35 v0
u1d8 ready enabled data disk ready ready 36 v0
u1d9 ready enabled data disk ready ready 35 v0
```

```
LOOP STATUS STATE MODE CABLE1 CABLE2 TEMP
```

```
-----
u111 ready enabled master - - 33.5
u112 ready enabled slave - - 36.0
```

```
POWER STATUS STATE SOURCE OUTPUT BATTERY TEMP FAN1 FAN2
```

```
-----
ulpcul ready enabled line normal normal normal normal normal
ulpcu2 ready enabled line normal normal normal normal normal
```

3. As the output indicated clearly that the problem is with one of the disks I decided to contact Sun Support. As the result a new case has been opened.

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SUN support contacts as 2005.March:

* Phone number: +41 848 786 002 (from shift phones dial 333 and then 0 848...)

* Contract ID: CH X050 GEN - (19)90/1

4. After the disk has been replaced by Sun Support. I verified the status of the disk array:

```
dbstct37:/:<27>vol stat
```

```
v0 uld1 uld2 uld3 uld4 uld5 uld6 uld7 uld8 uld9
unmounted 0 0 0 0 0 0 0 0 0
```

```
dbstct37:/:<28>fru list
```

```
ID TYPE VENDOR MODEL REVISION SERIAL
```

```
-----
ulctr controller card 0301 501-5710-02( 0200/020106 116028
uld1 disk drive SEAGATE ST336605FSUN A638 3FP1RL19
uld2 disk drive SEAGATE ST336605FSUN A638 3FP1RSJJ
uld3 disk drive SEAGATE ST336605FSUN A638 3FP1RPZM
uld4 disk drive SEAGATE ST336605FSUN A638 3FP1RRX6
uld5 disk drive SEAGATE ST336605FSUN A838 3FP0K5W1
uld6 disk drive SEAGATE ST336605FSUN A638 3FP106ZV
uld7 disk drive SEAGATE ST336605FSUN A638 3FP1RS2L
uld8 disk drive SEAGATE ST336605FSUN A638 3FP1RRW9
uld9 disk drive SEAGATE ST336605FSUN A638 3FP1RRRJ
u1l1 loop card SLR-MI 375-0085-01- 5.02 Flash 098201
u1l2 loop card SLR-MI 375-0085-01- 5.02 Flash 098928
ulpcu1 power/cooling unit TECTROL-CAN 300-1454-04( 0000 055393
ulpcu2 power/cooling unit TECTROL-CAN 300-1454-04( 0000 076139
ulmpn mid plane SLR-MI 370-3990-02- 0000 053952
```

```
dbstct37:/:<29>fru stat
```

```
CTLR STATUS STATE ROLE PARTNER TEMP
```

```
-----
ulctr ready enabled master - 41.5
```

```
DISK STATUS STATE ROLE PORT1 PORT2 TEMP VOLUME
```

```
-----
uld1 ready enabled data disk ready ready 40 v0
uld2 ready enabled data disk ready ready 38 v0
uld3 ready enabled data disk ready ready 38 v0
uld4 ready enabled data disk ready ready 38 v0
uld5 ready enabled data disk ready ready 38 v0
uld6 ready enabled data disk ready ready 37 v0
uld7 ready enabled data disk ready ready 38 v0
uld8 ready enabled data disk ready ready 38 v0
uld9 ready enabled data disk ready ready 38 v0
```

```
LOOP STATUS STATE MODE CABLE1 CABLE2 TEMP
```

```
-----
u1l1 ready enabled master - - 36.5
u1l2 ready enabled slave - - 38.5
```

```
POWER STATUS STATE SOURCE OUTPUT BATTERY TEMP FAN1 FAN2
```

```
-----
ulpcu1 ready enabled line normal normal normal normal normal
ulpcu2 ready enabled line normal normal normal normal normal
```

5. Then as root on both cluster nodes I performed the following commands:

```
vxdisk offline c4t1d0
vxdisk offline c4t1d1
vxdisk rm c4t1d0
vxdisk rm c4t1d1
```

```
vxdisk list [check that c4t1d0-1 are not present]
```

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```
devfsadm -C -v  
scgdevs  
scdidadm -C
```

6. Next on T3 I mounted the volume v0:

```
dbst37:/:<30>vol mount v0
```

7. On both cluster nodes:

```
devfsadm -v  
scgdevs  
scdidadm -r  
scdidadm -l [check that c4t1d0-1 are listed]  
format [check that luns are visible on both nodes, label them on one node]  
vxdctl enable  
vxdisk list [check that luns are seen and have error status]
```

8. On master cluster node:

```
vxdiskadm -> option 5 to replace both failed disks
```

9. Mirrors recreation takes several hour and can be observed with vmsa tool.

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