

IX3000产品在Solaris客户端的特殊配置

一、组网需求:

无

二、组网图:

无

三、配置步骤:

对于Solaris系统，最常遇到的问题就是创建分区后的容量和实际容量不一致。对于挂给solaris系统的卷，一定要用format命令检查显示的大小是否和实际的SAN资源的大小一致。如果不一致，需要用dd命令对开始的一段区间清0，直到大小一致。

用format命令检查SAN资源大小操作如下：

```
root@solaris1 # format
```

```
Searching for disks...done
```

AVAILABLE DISK SELECTIONS:

```
0. c1t0d0 <SUN72G cyl 14087 alt 2 hd 24 sec 424>
```

```
   /pci@1c,600000/scsi@2/sd@0,0
```

```
1. c9t36d0 <H3C-H3C ISCSI DISK-v1.0-488.28GB>
```

```
   /iscsi/disk@0000iqn.2000-03.com.h3c-.ix3080-125.sunv240-123-00000,0
```

```
Specify disk (enter its number): 1
```

```
selecting c9t36d0
```

```
[disk formatted]
```

FORMAT MENU:

```
disk      - select a disk
type      - select (define) a disk type
partition - select (define) a partition table
current   - describe the current disk
format    - format and analyze the disk
repair    - repair a defective sector
label     - write label to the disk
analyze   - surface analysis
defect    - defect list management
backup    - search for backup labels
verify    - read and display labels
inquiry   - show vendor, product and revision
volname   - set 8-character volume name
!<cmd>    - execute <cmd>, then return
```

```
quit
```

```
format> p
```

PARTITION MENU:

```
0 - change `0' partition
1 - change `1' partition
2 - change `2' partition
3 - change `3' partition
4 - change `4' partition
5 - change `5' partition
6 - change `6' partition
select - select a predefined table
modify - modify a predefined partition table
name    - name the current table
print   - display the current table
label   - write partition map and label to the disk
```

```

!<cmd> - execute <cmd>, then return
quit
partition> p
Current partition table (original):
Total disk sectors available: 2457583582 + 16384 (reserved sectors)

Part  Tag  Flag  First Sector      Size      Last Sector
0    root  wm      34    128.00MB    262177
1    swap  wu    262178    128.00MB    524321
2  unassigned  wm      0      0          0
3  unassigned  wm      0      0          0
4  unassigned  wm      0      0          0
5  unassigned  wm      0      0          0
6    usr  wm    524322    1.14TB    2457583581
8  reserved  wm    2457583582    8.00MB    2457599965

partition>
设备c9t36d0实际容量只有500G不到，但format显示分区却有1.14TB。此问题通常是
由于在存储（IX3000）的一个RAID上创建过1.14TB左右的SAN资源并分配给了Solaris，
被删除后又在同一RAID上创建一个更小的SAN资源分配给Solaris，由于卷的头部
信息仍然保留了旧的分区信息，从而导致这个现象。解决这个问题需要清掉头部信息
后再重新format。
root@solaris1 # dd if=/dev/zero of=/dev/rdisk/c9t36d0 bs=1024k count=2048
2048+0 records in
2048+0 records out
root@solaris1 # format
Searching for disks...done

c9t36d0: configured with capacity of 488.28GB

AVAILABLE DISK SELECTIONS:
  0. c1t0d0 <SUN72G cyl 14087 alt 2 hd 24 sec 424>
     /pci@1c,600000/scsi@2/sd@0,0
  1. c9t36d0 <H3C-H3C ISCSI DISK-v1.0-488.28GB>
     /iscsi/disk@0000iqn.2000-03.com.h3c-.ix3080-125.sunv240-123-00000,0
Specify disk (enter its number): 1
selecting c9t36d0
[disk formatted]
Disk not labeled. Label it now? yes

FORMAT MENU:
disk      - select a disk
type      - select (define) a disk type
partition - select (define) a partition table
current   - describe the current disk
format    - format and analyze the disk
repair    - repair a defective sector
label     - write label to the disk
analyze   - surface analysis
defect    - defect list management
backup    - search for backup labels
verify    - read and display labels
inquiry   - show vendor, product and revision
volname   - set 8-character volume name
!<cmd>    - execute <cmd>, then return
quit
format> p

PARTITION MENU:
  0 - change `0' partition
  1 - change `1' partition

```

2 - change `2' partition

3 - change `3' partition

4 - change `4' partition

5 - change `5' partition

6 - change `6' partition

select - select a predefined table

modify - modify a predefined partition table

name - name the current table

print - display the current table

label - write partition map and label to the disk

!<cmd> - execute <cmd>, then return

quit

partition> p

Current partition table (original):

Total disk sectors available: 1023983582 + 16384 (reserved sectors)

Part	Tag	Flag	First Sector	Size	Last Sector
0	root	wm	34	128.00MB	262177
1	swap	wu	262178	128.00MB	524321
2	unassigned	wu	0	0	0
3	unassigned	wm	0	0	0
4	unassigned	wm	0	0	0
5	unassigned	wm	0	0	0
6	usr	wm	524322	488.02GB	1023983581
8	reserved	wm	1023983582	8.00MB	1023999965

使用dd命令清除头部信息后, 再用format命令查看已是正常的488.02GB。

四、配置关键点:

? 无