

AIX LVM

PV

```
# Add a disk hdisk3 to a PV
## NOTE:  disk  disk PV  lspv  pv-id
cfgmgr
chdev -l hdisk3 -a pv=yes
lspv

# Remove a PV from a disk hdisk3
## If done, the pv-id appears 'none'
chdev -l hdisk3 -a pv=clear
lspv

#  PV  /
lspv <PV-NAME>

#  PV 
lspv -M hdisk0

#  PV  LVs
lspv -l hdisk0

# Check the hdisk VendorId/size
lsmpio -q
```

VG

```
# Create VG with 128M(PP size)
mkgv -y <vg-name> -s 128 hdisk1 hdisk2

# Add PVs hdisk3, hdisk4 to specific VG
extendvg <vg-name> hdisk3 hdisk4

# Remove a VG with PVs hdisk3, hdisk4
```

```
reducevg <vg-name> hdisk3 hdisk4
```

```
# List commands
```

```
lsvg <VG-NAME> # Check the VG
```

```
lsvg -l <VG-NAME> # Check the LVs in the VG
```

```
lsvg -p <VG-NAME> # Check the PVs in the VG
```

LV

```
# Create LV with 5G
```

```
## mklv -y <lv-name> -t jfs2 <vg-name> [LP-number|GB-size]
```

```
/usr/sbin/mklv -y'siview_lv' -tjfs2 smapvg 80
```

```
/usr/sbin/mklv -y'siview_lv' -tjfs2 smapvg 10G
```

```
# Remove a LV
```

```
rmlv <lv-name>
```

```
# List the PVs for specified LV
```

```
lslv -l <LV-NAME>
```

LV Mirror

```
# Add a copy of LV hd4 into specified PV hdisk1
```

```
## mklvcopy <LV-NAME> <NUMBER-of-COPY(1|2)> <PV-NAME>
```

```
mklvcopy hd4 2 hdisk1
```

```
syncvg -v rootvg
```

```
# Verify the state
```

```
## Check STALE PVs: 0, STALE PPs:0
```

```
lsvg rootvg
```

```
## Check the LV STATE: open/syncd
```

```
lsvg -l rootvg
```

```
# Remove a copy of LV from specified PV
```

```
rmlvcopy hd4 1 hdisk1
```

Filesystem

```
# Create a filesystem with /data
## -A: Whether the filesystem is mounted at each system restart.
## crfs -v jfs2 -A yes -d <lv-name> -m <mount-point> -a logname=INLINE
/usr/sbin/crfs -v 'jfs2' -A'yes' -d'siview_lv' -m'/home/siview' -a logname=INLINE
mount /home/siview

# Extend the size of 1024MB for specified filesystem
chfs -a size=+1024M /home
## Alternatively, resizing to specified number
chfs -a size=2048M /home

# Remove a filesystem
## Check if the mount-point has been closed/syncd
lslv -l <vg-name>
rmfs <mount-point>
```

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