

AIX Commands Related to Boot and Init Process

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Posted on [November 21, 2012](#) by [ksgnathan](#)

1) To find the run-level in which system is working

a) #who -r

b) cat /etc/.init.state

2) To change the runlevel from one to other

#telinit M or shutdown -m -> Go to maintenance mode (single user mode)

#telinit 2

3) Shows the bootlist in normal mode & Service mode

#bootlist -m normal -o

#bootlist -m service -o

4) Sets the bootlist in the normal mode and service mode

#bootlist -m normal hdisk1 hdisk2

#bootlist -m service cd0 hdisk1

5) To show the boot disks location code

#bootlist -m normal -ov

'ibm,max-boot-devices' = 0x5

NVRAM variable: (boot-device=/pci@80000002000000c/pci@2/pci1069,b166@1/scsi@0/sd@4:2)
Path name: (/pci@80000002000000c/pci@2/pci1069,b166@1/scsi@0/sd@4:4) <-this
pathname shows which blv is used
match_specific_info: ut=disk/scsi/scsd
hdisk0 blv=bos_hd5

8) To shows state of boot record

```
#ipl_varyon -i
```

	PVNAME	BOOT DEVICE	PVID	VOLUME GROUP ID	hdisk0
YES	00183dfeba601b30000000000000000000		000183df00004c00	hdisk1	NO
	000183df1bc4889900000000000000000000		000183df00004c00		

Where, hdisk0 is the boot device

9) Creates new boot record

```
#bosboot -ad hdisk3
```

10) To clears the boot record

```
#chpv -c hdisk3
```

11) To obtain the boot device

```
#slsv -m hd5
```

12) To see the system architecture (RS6K,P series)

```
#bootinfo -p
```

13) To see the bit addressing (32 bit or 64 bit)

```
#bootinfo -y
```

14) To check the RAM size

```
#bootinfo -r
```

15) To check the bootable disk

```
#bootinfo -b
```

16) To check the size of the hard disk

```
#bootinfo -s hdisk3
```

17) Specifies the type of boot

#bootinfo -t

18) To shutdown the server

#shutdown

#shutdown -F (Fast shutdown)

#halt (ungraceful shutdown)

19) Shutdown with grace period

#shutdown +3 "System is going to shutdown"

20) To reboot the server

#shutdown -Fr

#reboot or #fastreboot (Can be used if no users logged into the system)

Normally reboot kill the processes only, leaves the process and communications running

21) To maintenance mode

#shutdown -m

22) Info about boot

#who -b

#last reboot

#uptime

23) how to find where is the bootimage?

#bootinfo -v

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