

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	00183dfeba601b300000000000000000	000183df00004c00	hdisk1	NO
	000183df1bc488990000000000000000	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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