Repairing File Systems with fsck in AIX 4.1

Special Notices

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About This Document

This document covers the use of fsck (file-system check) in maintenance mode to repair inconsistencies in file systems. This document applies to AIX 4.1.

Steps

1. Turn the key to the Service position.
2. With BOOTABLE MEDIA OF THE SAME VERSION AND LEVEL AS THE SYSTEM, boot the system.

   The bootable media can be ANY ONE of the following:

   - Bootable cdrom
   - NON_AUTOINSTALL Mksysb
   - Bootable Install Tape

   Follow the prompts to the "Welcome to Base OS" menu.
3. Choose "Start Maintenance Mode for System Recovery" (Option 3)

   The Next Screen would prompt the following Menu "Maintenance"

   - Choose "Access a Root Volume Group" (Option 1)
   - Choose "0 continue" and Select Volume group by number

     At this stage the console would display information about rootvg, and also Display a Menu with 2 Options.
   - Choose "Access this volume group and start a shell before mounting the filesystems" (Option 2)

   If you get errors from the above option, do not continue with the rest of this procedure. Correct the problem causing the error. If you need assistance correcting the problem causing the error, contact one of the following:

- local branch office
- your point of sale
- 1-800-CALL-AIX (to register for fee-based services)

All of the above avenues for assistance may be billable. If no errors occur, procede with the steps outlined below:

4. Run the following commands to check and repair file systems. (The "-y" option gives fsck permission to repair file systems when necessary.)

```
fsck -y /dev/hd1
fsck -y /dev/hd2
fsck -y /dev/hd3
fsck -y /dev/hd4
fsck -y /dev/hd9var
```

5. Format the default jfslog for the rootvg jfs file systems, by running the following command.

```
/usr/sbin/logform /dev/hd8
```

   Answer YES when asked if you want to destroy the log.

6. Also run fsck on any user-created file systems that are in the rootvg volume group.

7. Type "exit" to exit from the shell. The file systems will automatically mount after you type "exit".

8. If you have file systems in a volume group other than rootvg, you may run fsck on them now by running these commands:

```
varyonvg VGname
fsck -y /dev/LVname
```

   where LVname is the name of your user-defined logical volume. The above commands can be repeated for each user-defined volume group on the system.

9. With the key in Normal position, issue the reboot command.

```
sync;sync;sync;reboot
```

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