Repairing File Systems with fsck in AIX 4.1 (LED 518)

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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.

Recovery Procedure

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 screen prompts to the following menu:

   ```
   Welcome to Base Operating System
   Installation and Maintenance
   ```

3. Choose "Start Maintenance Mode for System Recovery" (Option 3)

   The next screen has the "Maintenance" Menu

4. Choose "Access a Root Volume Group" (Option 1)

   The next screen displays a warning that indicates you will not be able to return to Base OS menu without rebooting.

5. Choose "0 continue"

   The next screen displays information about all volume groups on the system.

6. Select the root volume group by number.

7. Choose "Access this volume group and start a shell before mounting 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 fol- lowing:

   - 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, proceed with the steps outlined below:

8. Next, 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
   ```

9. 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.

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

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

12. 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.

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

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

Reader's Comments

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