Firmware Update Quick Reference (99x/T-Class)

This sheet is a quick reference for updating firmware (SP, PDC, and PSCM) on the Service Processor (SP) card in 99x/T-Class Systems. For detailed information, see *99x/T-Class Systems Firmware Update Guide* (PN A1820-90002).

To load SPU-specific firmware onto an SP card:

1. Find the full name of the SPU-specific firmware you want to load by examining the medium's label.

2. Execute the FV command and check the version number in the Alternate Firmware Versions section of the screen.

   If there is a version number, go to step 3. If there is not a version number, go to step 4.

3. Determine if the FUT firmware version number in the alternate bank is the latest version by matching it with the FUT version number that came in the kit.

   • If the FUT firmware version number in the alternate bank **is not** the latest version, continue.

   • If the FUT firmware version number in the alternate bank **is** the latest version, go to step 5.

4. Load the FUT firmware. After the FUT has finished loading, go to step 5 of this procedure.

   Always use the latest version of the FUT firmware to load SPU-specific hardware. This ensures that FUT firmware is not overwritten, and that FUT firmware is always available in the alternate bank to facilitate repairs and updates.

5. Use the normal shutdown procedure for HP-UX or MPE/iX. Ensure that:

   a. A system backup has been performed.

   b. The operating system has been shut down.

6. After the shutdown completes, execute the SW command at the SP> prompt. A hard boot is performed and the FUT firmware is loaded.

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Control-B                   /* At the system console
CM> SP                      /* To access the SP> prompt
SP> SW                      /* To switch firmware banks (to FUT) & reboot
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7. **If you are changing processor cards** as part of an SPU upgrade:

   a. Turn the Standby/Ready switch on the top front of the system to the Standby position.

WARNING   **Be sure that the Standby/Ready switch is in the Standby position!**

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   b. Turn OFF the circuit breaker at the rear of the cabinet.

   c. Install the new processor cards following the instructions that accompany them.

   d. Make sure the circuit breaker at the rear of the cabinet is ON.

   e. Turn the Standby/Ready switch to the Ready position.

   f. Use the HC command at the SP> prompt to verify that the processor cards were properly installed. See the manual that accompanies the upgrade kit.

8. After the system reboots (using FUT in the active bank), put the medium containing the SPU-specific firmware into the device, if you have not already done so.

9. When the PDC Firmware Menu appears, check the update path displayed in the menu. The path should point to the device containing the medium of the firmware.

10. Enter the UPDATE FWEmmxxx command to load ("update") the desired SPU-specific firmware onto the SP card.

NOTE   The UPDATE command replaces the firmware in the Alternate bank only. It will not affect information in the Active bank.

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11. Wait until the update process completes (approximately 10 minutes).

12. After the update is completed, **the computer automatically does a hard reboot** with the newly loaded firmware as the active firmware.

13. Execute the FV command at the SP> prompt to verify that the desired firmware was loaded.