

PLAYSTATION 3



PLAYSTATION® 3 FEDORA™ CORE 5 LINUX SOFTWARE KIT INSTALLATION INSTRUCTIONS

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VERSION HISTORY:

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Revision		Version 2.0
Revision		Version 1.0
Introduction		Version 0.1

PLAYSTATION® 3 FEDORA™ CORE 5 LINUX SOFTWARE KIT INSTALLATION INSTRUCTIONS

HARDWARE REQUIREMENTS:

- PS3™ with System Software version 1.10 or later installed. Version 1.32 is the latest. The latest System Software can be downloaded by clicking [HERE](#) or <http://www.us.playstation.com/ps3/network/updates>. You can also update your System Software from the Sony XMB menu.
 - Sixaxis Controller .
 - Keyboard (USB or Bluetooth).
 - Mouse (USB or Bluetooth).
 - ~~USB Memory or MemoryStick or SD or CompactFlash~~ (NOTE: We have modified the installation process so this hardware is not required.)
 - Monitor or TV (To be used as an output device for the PS3™).
 - Connected with the HDMI connector, AV MULTIOUT connector, or COMPONENT AV connector.

SOFTWARE REQUIREMENTS:

- All of the required software has been loaded and configured on these two (2) DVD's.

WARNING:



During this process all of your saved game data, pictures, music, videos, and any other data/files you have previously loaded on your PS3™ will be deleted! Backup all data to an external device before starting the installation process!

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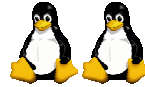


PREPARING YOUR PS3™ FOR FEDORA™ CORE 5 LINUX

1. Power up your PS3™.
2. Insert the DVD labeled “Fedora™ Core 5 for PS3™” into your PS3™.
3. Navigate with your sixaxis controller through the XMB menu to “Settings”.
4. Scroll down to “System Settings” and press (X) on your controller.
5. Scroll down to “Format Utility” and press (X) on your controller.
6. Scroll down to “Format Hard Drive” and press (X) on your controller. You will be asked “Do you want to format the hard disk?” Select “Yes” and press (X) on your controller.
7. Select “Custom” for the partition setting and press (X) on your controller. Pick the partition option to “Allot 10GB for Other OS” and press (X) on your controller. Select “Quick Format” and press (X) on your controller. *You will be asked to confirm that ALL DATA WILL BE LOST AND CANNOT BE RESTORED. Once you select “Yes” the format process will begin and all of your saved game data, photos, videos, music, and any other files that you have loaded will be deleted from your PS3™. Make sure you have a backup for all of this data. If you have a backup of your data, then select “Yes” and press (X) on your controller. Formatting for a 60GB hard disk takes about 5 seconds using the quick format command.*
8. Once the partitions have been created and the format process is complete, you will be asked to restart the PS3™. Press (X) on your controller to restart the system.
9. Now “Log In” and navigate back to “Settings”. Scroll down to “System Settings” again. Press (X) on your controller and scroll down to “Install Other OS” and Press (X) on your controller.
10. The PS3™ will scan for the “Other OS” and will find the installer on the DVD Disk you previously loaded in step 2. The file Title will be “/PS3/otheros/otheros.self”.
11. Press (X) to confirm “OK”; this is the file we want to load.
12. Press (X) on your controller to start the installation process. There will be a note indicating that the screen will temporarily go blank. So please wait until the installer starts.
13. The screen will now say “Other OS Installer, Version 1.0” and the “Start” option will be selected. Press (X) on your controller to continue loading the software.
14. The screen will tell you to plug your wireless controller into the USB cable and into your PS3™; but this is not required. Press (X) on your controller to continue loading the software.

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15. The License Agreement will now be displayed on the screen. Read the agreement and then select “Accept” if you agree to the license agreement. Once you have “Accepted” the license agreement. Press (X) on your controller to continue the installation process. The installer will be loaded and confirmation will be given indicating “Install completed”.
16. Now press the (O) button on your controller to go back to the  “Settings” menu.
17. Now go to the “System Settings” menu and press the (X) key then navigate to “Default OS”.
18. You will notice that “PS3™” is the default OS.  (Note: This is the gaming OS. You can always reset your PS3™ back to the default “PS3™” OS by powering off your PS3™ and then holding your finger on the power button for five (5) seconds. A second beep will be heard when you power up the PS3™). Press (X) on your controller then Select “Other OS” from the list of options and pres the (X) key on the controller. This will take you back to the “Default System” menu option and “Other OS” will now be displayed as the Default System OS.
19. Now power off your PS3™. Connect your USB/Bluetooth Keyboard and mouse. Power on the PS3™. You will see information scrolling across the screen and two (2) of the familiar Fedora™ Core 5 Linux Tex penguins.





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START THE FEDORA™ CORE 5 SOFTWARE INSTALLATION PROCESS

20. Your PS3™ will now run the installer program automatically; then it will be waiting at the “kboot:” prompt. KBOOT is the installer software required to load Fedora™. At the prompt type **“install-fc sda”**

 (NOTE: this must be entered exactly as shown here. All lowercase with a **hyphen** between **install** and the letters **fc**, then a **space** and the letters **sda** all lowercase) and press the Enter key on your USB/Bluetooth keyboard.

 (NOTE: the install command is looking for the **Fedora™ Core** software in the DVD/BlueRay drive. SDA is the label assigned to your PS3™ internal hard drive. So you are telling KBOOT to install Fedora™ Core on your internal hard drive).

21. You will be prompted “Please insert the Fedora Core install DVD” and to press the “y” key once the Fedora™ Core DVD is loaded. Press the “y” key since the DVD is already loaded from step 2. Then press the Enter key.


22. You will now be asked which Fedora™ Core 5 package kit you would like to install. You have two options; 1. Fedora™ Core minimum install or 2. Fedora™ Core full install.

1) Fedora™ Core minimum install

2) Fedora™ Core full install

Select install system?

23. The Full Core installation loads all of the packages and takes 2-3 hours. You don’t have to do anything during the installation until the Fedora™ Core installation has completed. You will then be prompted to install the second (2nd) DVD for the PS3™ ADD-ON software. The Minimum Core Installation takes less than one (1) hour to install, but only gives you the basic core packages. You can start this process and don’t have to do anything until the Fedora™ Core installation has completed. You will be prompted to install the second (2nd) DVD labeled “Cell Linux Addon for PS3™” software. Press the “1” key and then press the Enter key to select the minimum install. Or, press the “2” key and then press the Enter key to select the full install.

 (NOTE: We recommend choosing the full install. This installation will give many more options to use and learn later.)

24. A warning will then be displayed.

Caution!! All data in /dev/sda are removed.

Is it OK? (y/n):

25. Press the “y” key and then press the Enter key to start the installation process.

26. The Fedora™ Core 5 installation will take approximately 2.5 hours to install. Once the Fedora™ Core 5 installation is completed the DVD will be ejected from the PS3™.



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27. You will then be prompted to “Please insert the addon Packages CD.”. The Fedora™ Core DVD will already be ejected from the PS3™. Remove the Fedora™ Core DVD and insert the second (2nd) DVD labeled “Cell Linux Addon for PS3™”. Wait a few seconds for the PS3™ to mount the disk. Then press the “y” key on your keyboard and then press the Enter key. This will start the process of installing the custom Linux modules and utilities specific to the PS3™. This disk will take about five (5) minutes or less to load the required software.
28. Once the software is loaded you will be prompted to set a password for the Fedora™ Core 5 Linux installation.
29. The display will show “Changing password for user root.” “New UNIX password:”
30. The USERID will always be called “root” all lowercase. The USERID IS CASE SENSITIVE and needs to be entered in lowercase after the installation is complete, so verify that the case lock key is off on your keyboard. Right now you will set the password for the “root” USERID. The PASSWORD IS CASE SENSITIVE. Enter a password that you will remember. It should be at least 6-8 characters using a combination of numbers and letters. Then press the Enter key. Once you enter the password a short message will be displayed about how strong your password choice is. (Example: If you pick a one character password like the letter “a”, the message you will receive is “BAD PASSWORD: it is WAY too short”. Your password choice is still valid, but is not a very strong password, which is easy to figure out or hack. You will be prompted to re-enter the password for verification. Enter the same password again and press the Enter key.



(NOTE: You must remember this password. There is NO way to recover the password and you will need to completely re-install the software over again if you forget it).

31. You will see the messages “passwd: all authentication tokens updated successfully. Install done, Type reboot to start Linux or type halt to power off.” The installation is now complete.

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PLAYSTATION® 3 FEDORA™ CORE 5 LINUX SOFTWARE KIT INSTALLATION INSTRUCTIONS

POWER UP AND START USING FEDORA™ CORE 5 ON YOUR PS3™

32. YOU MUST POWER OFF THE PS3™ at this point. There is the potential for a startup error if you warm boot directly after the installation process completes. Since you just power cycled your PS3™, the PS3™ will start loading the Fedora™ Core 5 software. This process will take less than five (5) minutes to load. The startup process has several moments that pause, waiting for software to load and devices to initialize. You do not have to do anything and your keyboard input will not be allowed. The PS3™ will display “localhost login:” as the prompt when software loading is complete.
33. Once the PS3™ starts to load the Fedora™ Core code, during the first load only, you will see a graphical window asking if you want to change any of the listed options. Simply waiting several minutes which will allow the startup process to continue to the localhost login: prompt. This will only occur once after the initial installation process.

LOGGING INTO FEDORA™ CORE 5

34. Any key you might press accidentally may get buffered and will show up at the prompt after loading is complete. Make sure that any keys pressed by accident are deleted using the backspace key on your keyboard. Now at the prompt “localhost login:” type ‘root’ for the USERID and press the “Enter” key. Enter the password you set during the installation process, which is case sensitive, and press the Enter key.
35. You are now logged into the Fedora™ Core 5 installation on your PS3™. Type “startx” and press the Enter key to run the Graphical User Interface (GUI) called X-Windows. This is as far as this installation guide will take you. From here you can click around and start your journey learning and investigating Fedora™ Core 5 on your Playstation 3.
36. NOTE: You have two ways to get back to your PS3™ Gaming OS. Remember that when you power up your PS3™ you can hold the power key for five (5) seconds until a second beep is heard. This resets the PS3™ settings to the factory default settings, which includes booting from the PS3™ OS (NOTE: all changes you made to the default settings will now be undone, including the video mode). The other more graceful alternative is to logout of the X-Windows interface. Click the System tab and scroll down to logout. From the Fedora™ command prompt, type “boot-game-os” and press the Enter key. This will boot the PS3™ OS and allow you to use the PS3™ normal XMB menu system.



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PLAYSTATION[®] 3 FEDORA[™] CORE 5 LINUX SOFTWARE KIT INSTALLATION INSTRUCTIONS

INSTALLATION TIME STAMP LOG FOR FEDORA[™] CORE 5 ON A PS3[™]

Installation Time ~ 2 Hours and 31 Minutes

Start Time- 2:24 PM

50% Complete 3:00 PM

73% Complete 3:35 PM

83% Complete 3:54 PM

90% Complete 4:22 PM

95% Complete 4:41 PM

100% Complete 4:55 PM

1. To complete 50% of the installation it takes approximately 36 minutes.
2. To complete 73% of the installation it takes approximately 1 hour and 11 minutes.
3. To complete 83% of the installation it takes approximately 1 hour and 30 minutes.
4. To complete 95% of the installation it takes approximately 2 hours and 17 minutes.
5. To complete 100% of the installation it takes approximately 2 hours and 31 minutes.

INSTALLATION TIME STAMP LOG FOR THE ADDON PACKAGES DISK

Installation Time ~ 2 minutes

Start Time- 5:00 PM

100% Complete 5:02 PM

BOOT TIME STAMP LOG

Boot Time ~ 2 minutes

Start Time - 5:21 PM

100% Complete 5.23 PM