1. What is the difference between the ps command and the top command? Why would you use one over the other?

A ps command reports a snapshot of the current process as opposed to the top command which display the tasks. You would use the ps command when you are wanting to see just a portion of what is going on or if you are giving the information to someone who does not have the authority to know what’s behind the scenes. A top command would be use when you are giving the information to someone of power within a command because it would give a more in-depth overview of what is going on.

1. In the Unix/Linux context, what is a daemon?

a daemon allows programs to run in the background without any user interface.

1. Describe the output of the top command to someone who is using it for the first time. Be sure to explain the system summary information and the process table columns.

In the top command you have the summary and the memory usage. In the summary, it displays the time of how long the user’s system has been running for. The memory command shows how much memory is in the system. This includes how much RAM a user has. The top command also tells a user the tasks and CPU usage that a system is currently doing, and time spent on various tasks. Finally, the load tasks tells you how much longer a tasks you are currently running will be completed.

1. What is the difference between pressing CTRL+Z and CTRL+C when a program is running in the shell?

CTRL+Z will pause your program until you are ready to restart it again as appose to CTRL+C, which will terminate whatever you are doing. You will have to restart the process if you use CTRL+C.

1. Briefly explain the concept of multitasking. In what cases is it an illusion vs. when is it real?

Multitasking is the illusion of doing more than one thing at once by switching between programs. It is consider an illusion when each application runs more slowly if it were the only thing running on the computer.

**Citation:**

Akhtar. (2020, February 12). What is the difference between ctrl Z and Ctrl C in command line. Retrieved November 11, 2022, from https://www.edureka.co/community/63673/what-is-the-difference-between-ctrl-and-ctrl-in-command-line#:~:text=ctrl%20c%20is%20used%20to,It%20terminates%20your%20program.&text=ctrl%20z%20is%20used%20to,keep%20your%20program%20in%20background.

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