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| **DOCUMENT RULES:** | |
| **Task name** | **The ps command** |
| **Task name & column name should be written:** | **Bold (CTRL+B)** |
| **Commands should be written in the after # sign:** | *Italic (CTRL+I) #hostname* |
| **Output photo should be cropped or compressed:**  **Photo could be more than one:**  **If you need extra lines, add the line next after it:** | ***Description photo should be with title bar (CTRL + I + B)*** |
| **All other text should be written:** | Standard |
| **Font name and text size:** | Calibri and 9 |
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| **Task names** | **Command steps and outputs** |
| ps | * PID - **quite obvious, this is the process id.** * TTY - **Terminal associated with the process**. * TIME - **total time of CPU usage** * CMD - **the command which is running**.Graphical user interface, text    Description automatically generated |
| ps a | ***Text  Description automatically generated*** |
| ps -a | Text  Description automatically generated |
| ps T | Text  Description automatically generated |
| **Statuses** | * D - **uninterruptible sleep (usually IO)** * I - **Idle kernel thread** * R - **running or runnable (on run queue)** * S - **interruptible sleep (waiting for an event to complete)** * T - **stopped by job control signal** * t - **stopped by debugger during the tracing** * X - **dead (should never be seen)** * Z - **defunct ("zombie") process, terminated but not reaped by its parent** |
| **Statuses2** | * < - **high-priority (not nice to other users)** * N - **low-priority (nice to other users)** * s - **is a session leader** * l - **is multi-threaded** * + - **is in the foreground process group** |
| **List all processes** | ps -A  Text  Description automatically generated |
| ps -ef | **Used mostly when someone wants to determine the PID of the process.** |
| pstree | **to take a quick look on the system and dependencies, pstree might be enough.**  Text  Description automatically generated |
| ps -f -u syslog  shows all processes run by user syslog. | Text  Description automatically generated |
| ps -f -C cron  shows all processes, where the executable is cron. |  |
| ps -f -p 1  shows process with specified PID. |  |
| ps -f --ppid 1  show all processes, where parent process has PID 1. About parents, children, etc we will talk in future lesson. | Graphical user interface, text  Description automatically generated |