GPU interacts with other hardware components

A GPU interacts with other hardware components, like the CPU and motherboard, via a [PCI Express (PCIe) bus](https://www.google.com/search?rlz=1C1GCEV_enUS1155&cs=0&sca_esv=40588a10d3c61e1b&q=PCI+Express+%28PCIe%29+bus&sa=X&ved=2ahUKEwiiyIzooaOMAxXZC0QIHXQ5OG8QxccNegQIBhAB&mstk=AUtExfBY9sRV8iu312wiem_cCy-vvG-DlBR9wiNhkT0RtRShoH4q4HZzYJf4NpcWxmQYFbmRn0_2PMjEZfW9AU94O10OZX9soQCfCxJzCf2bUL8wCKcw7JKkBfmUBKDHeET5u0I&csui=3), enabling data transfer and command execution for tasks like rendering graphics and accelerating computations.

[**Top 50 Linux Commands You Must Know as a Regular User**](https://www.digitalocean.com/community/tutorials/linux-commands#top-50-linux-commands-you-must-know-as-a-regular-user)

1. [**ls** - The most frequently used command in Linux to list directories](https://www.digitalocean.com/community/tutorials/linux-commands#the-ls-command-in-linux)
2. [**pwd** - Print working directory command in Linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-pwd-command-in-linux)
3. [**cd** - Linux command to navigate through directories](https://www.digitalocean.com/community/tutorials/linux-commands#the-cd-command-in-linux)
4. [**mkdir** - Command used to create directories in Linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-mkdir-command-in-linux)
5. [**mv** - Move or rename files in Linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-cp-and-mv-commands)
6. [**cp** - Similar usage as mv but for copying files in Linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-cp-and-mv-commands)
7. [**rm** - Delete files or directories](https://www.digitalocean.com/community/tutorials/linux-commands#the-rm-command-in-linux)
8. [**touch** - Create blank/empty files](https://www.digitalocean.com/community/tutorials/linux-commands#the-touch-command-in-linux)
9. [**ln** - Create symbolic links (shortcuts) to other files](https://www.digitalocean.com/community/tutorials/linux-commands#the-ln-command-in-linux)
10. [**clear** - Clear the terminal display](https://www.digitalocean.com/community/tutorials/linux-commands#the-clear-command-in-linux)
11. [**cat** - Display file contents on the terminal](https://www.digitalocean.com/community/tutorials/linux-commands#the-cat-echo-and-less-commands)
12. [**echo** - Print any text that follows the command](https://www.digitalocean.com/community/tutorials/linux-commands#the-cat-echo-and-less-commands)
13. [**less** - Linux command to display paged outputs in the terminal](https://www.digitalocean.com/community/tutorials/linux-commands#the-cat-echo-and-less-commands)
14. [**man** - Access manual pages for all Linux commands](https://www.digitalocean.com/community/tutorials/linux-commands#the-man-command-in-linux)
15. [**uname** - Linux command to get basic information about the OS](https://www.digitalocean.com/community/tutorials/linux-commands#the-uname-and-whoami-commands)
16. [**whoami** - Get the active username](https://www.digitalocean.com/community/tutorials/linux-commands#the-uname-and-whoami-commands)
17. [**tar** - Command to extract and compress files in linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-tar-zip-and-unzip-commands)
18. [**grep** - Search for a string within an output](https://www.digitalocean.com/community/tutorials/linux-commands#the-grep-command-in-linux)
19. [**head** - Return the specified number of lines from the top](https://www.digitalocean.com/community/tutorials/linux-commands#the-head-and-tail-commands)
20. [**tail** - Return the specified number of lines from the bottom](https://www.digitalocean.com/community/tutorials/linux-commands#the-head-and-tail-commands)
21. [**diff** - Find the difference between two files](https://www.digitalocean.com/community/tutorials/linux-commands#the-diff-comm-and-cmp-commands)
22. [**cmp** - Allows you to check if two files are identical](https://www.digitalocean.com/community/tutorials/linux-commands#the-diff-comm-and-cmp-commands)
23. [**comm** - Combines the functionality of diff and cmp](https://www.digitalocean.com/community/tutorials/linux-commands#the-diff-comm-and-cmp-commands)
24. [**sort** - Linux command to sort the content of a file while outputting](https://www.digitalocean.com/community/tutorials/linux-commands#the-sort-command-in-linux)
25. [**export** - Export environment variables in Linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-export-command-in-linux)
26. [**zip** - Zip files in Linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-tar-zip-and-unzip-commands)
27. [**unzip** - Unzip files in Linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-tar-zip-and-unzip-commands)
28. [**ssh** - Secure Shell command in Linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-ssh-command-in-linux)
29. [**service** - Linux command to start and stop services](https://www.digitalocean.com/community/tutorials/linux-commands#the-service-command-in-linux)
30. [**ps** - Display active processes](https://www.digitalocean.com/community/tutorials/linux-commands#the-ps-kill-and-killall-commands)
31. [**kill and killall** - Kill active processes by process ID or name](https://www.digitalocean.com/community/tutorials/linux-commands#the-ps-kill-and-killall-commands)
32. [**df** - Display disk filesystem information](https://www.digitalocean.com/community/tutorials/linux-commands#the-df-and-mount-commands)
33. [**mount** - Mount file systems in Linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-df-and-mount-commands)
34. [**chmod** - Command to change file permissions](https://www.digitalocean.com/community/tutorials/linux-commands#the-chmod-and-chown-commands)
35. [**chown** - Command for granting ownership of files or folders](https://www.digitalocean.com/community/tutorials/linux-commands#the-chmod-and-chown-commands)
36. [**ifconfig** - Display network interfaces and IP addresses](https://www.digitalocean.com/community/tutorials/linux-commands#the-ifconfig-and-traceroute-commands)
37. [**traceroute** - Trace all the network hops to reach the destination](https://www.digitalocean.com/community/tutorials/linux-commands#the-ifconfig-and-traceroute-commands)
38. [**wget** - Direct download files from the internet](https://www.digitalocean.com/community/tutorials/linux-commands#the-wget-command-in-linux)
39. [**ufw** - Firewall command](https://www.digitalocean.com/community/tutorials/linux-commands#the-ufw-and-iptables-commands)
40. [**iptables** - Base firewall for all other firewall utilities to interface with](https://www.digitalocean.com/community/tutorials/linux-commands#the-ufw-and-iptables-commands)
41. [**apt, pacman, yum, rpm** - Package managers depending on the distribution](https://www.digitalocean.com/community/tutorials/linux-commands#package-managers-in-linux)
42. [**sudo** - Command to escalate privileges in Linux](https://www.digitalocean.com/community/tutorials/linux-commands#the-sudo-command-in-linux)
43. [**cal** - View a command-line calendar](https://www.digitalocean.com/community/tutorials/linux-commands#the-cal-command-in-linux)
44. [**alias -** Create custom shortcuts for your regularly used commands](https://www.digitalocean.com/community/tutorials/linux-commands#the-alias-command)
45. [**dd** - Majorly used for creating bootable USB sticks](https://www.digitalocean.com/community/tutorials/linux-commands#the-dd-command-in-linux)
46. [**whereis** - Locate the binary, source, and manual pages for a command](https://www.digitalocean.com/community/tutorials/linux-commands#the-whereis-and-whatis-commands)
47. [**whatis** - Find what a command is used for](https://www.digitalocean.com/community/tutorials/linux-commands#the-whereis-and-whatis-commands)
48. [**top** - View active processes live with their system usage](https://www.digitalocean.com/community/tutorials/linux-commands#the-top-command-in-linux)
49. [**useradd and usermod** - Add a new user or change existing user data](https://www.digitalocean.com/community/tutorials/linux-commands#the-useradd-and-usermod-commands)
50. [**passwd** - Create or update passwords for existing users](https://www.digitalocean.com/community/tutorials/linux-commands#the-passwd-command-in-linux)

The grep command is a powerful and versatile text search tool in Linux and Unix-based operating systems. It can search for specific patterns or strings in one or more files and filter the output of other commands.

The grep command stands for “global regular expression print,” which reflects its ability to search for regular expressions across multiple lines and files.

1. root@ubuntu:~# <Any command with output> | grep "<string to find>"

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