

OS Activities

For each of the following actions or requests coming from the user, explain what the operating system is doing behind the scenes. You will need to consider at least the following aspects:

Shell, processes and threads, Scheduling, Memory system, File system, I/O system

1. Inside an editor GUI, the user hits ctrl-S.
2. Double click on a file icon.
3. Dragging a file icon across the screen.
4. Terminating an editor program.
5. Asking the shell to delete a file.
6. Invoking a compiler at the command line.
7. Running an interactive Python program.
8. Running a program that counts words in a text file.
9. Clicking on a hyperlink in a Web browser.
10. Running a word processor's spell checker.
11. Duplicating a file at the command line.
12. Running a C program that calls fork and exec.
13. Running a program that exhibits infinite recursion.
14. Watching a DVD.
15. Resizing a window on the screen.

One last question... If we compose a program to run under one OS, what makes it possible for it run in a different environment?