

SYSTEM CALLS



explain system calls. what are different types of system calls?



System calls are a way for a user-level process to request a service from the operating system. System calls are the primary interface between an application program and the operating system. They allow the application to request services such as input/output, process management, and memory management from the operating system.



There are several **types of system calls**, including:

1. **Process control:** These system calls manage processes, such as creating or terminating a process, or changing a process's priority.
2. **File management:** These system calls perform operations on files and directories, such as creating or deleting files, opening or closing files, and reading or writing to files.
3. **Device management:** These system calls allow processes to interact with devices such as printers, disk drives, and keyboards.
4. **Information maintenance:** These system calls provide information about system status, such as the time of day or the amount of free memory.
5. **Communication:** These system calls allow processes to communicate with each other, either on the same computer or on different computers on a network.



