Lab 3 Part 2

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| **Term** | **Explanation** | **Citation** |
| Policy | Policies provide instructions that dictate the way certain activities should be performed in the OS. | <http://www.cs.unc.edu/~dewan/242/s07/notes/intro/node15.html> |
| Mechanism | Mechanisms are the ways in which OS processes/programs are implemented such that they uphold all relevant policies. | <http://www.cs.unc.edu/~dewan/242/s07/notes/intro/node15.html> |
| system call | A system call is a request made to the OS’s kernel, asking that it run a specified program that interacts with the OS in some capacity. | <https://www.geeksforgeeks.org/introduction-of-system-call/> |
| API | API stands for Application Programming Interface. APIs consist of rules, functions, and specifications that make it possible for software programs to communicate with one another. | <https://stackoverflow.com/questions/7440379/what-exactly-is-the-meaning-of-an-api> |
| file descriptor | A file descriptor is a unique integer used to identify an open file in a computer’s operating system, describing the data source and how it can be accessed. | <https://www.computerhope.com/jargon/f/file-descriptor.htm> |
| Interrupt | An interrupt is an external or internal event that interrupts the microcontroller to inform it that a device needs its service. | http://what-when-how.com/8051-microcontroller/interrupt-programming-in-c/ |
| Trap | A trap is a program interrupt, usually an interrupt caused by some exceptional situation in the user program | http://catb.org/esr/jargon/html/T/trap.html |
| Trap Table | A trap table allows the system protection against function-reuse attacks by creating a hierarchy of program interrupts. | http://www.cse.usf.edu/~xou/sec15/trap.pdf |
| Stack Pointer | A small register that stores the address of the last program request in a stack | <https://whatis.techtarget.com/definition/stack-pointer> |
| Kernel Mode | Kernel mode is a privilege level that grants complete and unrestricted access to the computer. When in kernel mode, any CPU instruction or memory address can be accessed. | https://blog.codinghorror.com/understanding-user-and-kernel-mode/ |
| Kernel Stack | Upcoming kernel commands are stacked in a point of kernel memory, restricted to only be used when in kernel mode. | https://www2.cs.duke.edu/courses/cps110/spring01/slides/trapfault/tsld007.htm |
| Standard Output. | Stdout is the default file descriptor where a process can write output. | https://www.computerhope.com/jargon/s/stdout.htm |