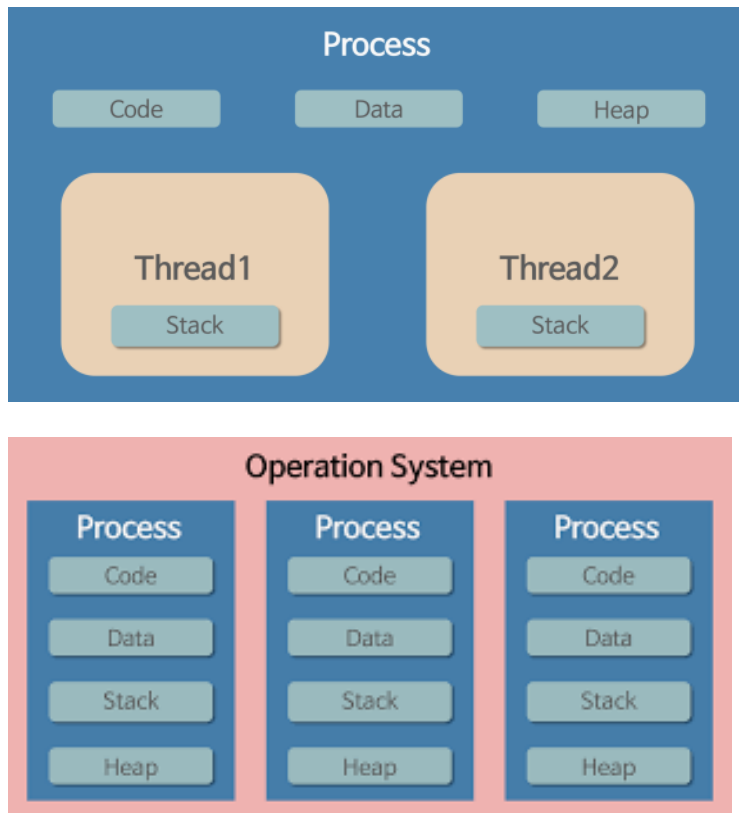


22러닝랩 3주차 스터디 진행 자료~ (ch2.7~ch3.5)

2022년 10월 11일 화요일 오후 6:14

1. 프로세스의 구조



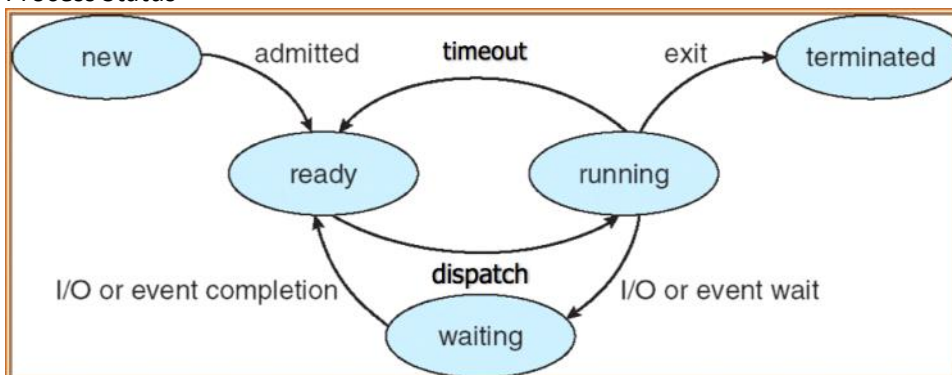
2. MSDos와 Unix의 차이점

- MSDos : Interface + Fuctionality
- Unix : Interface와 Functionality 구분

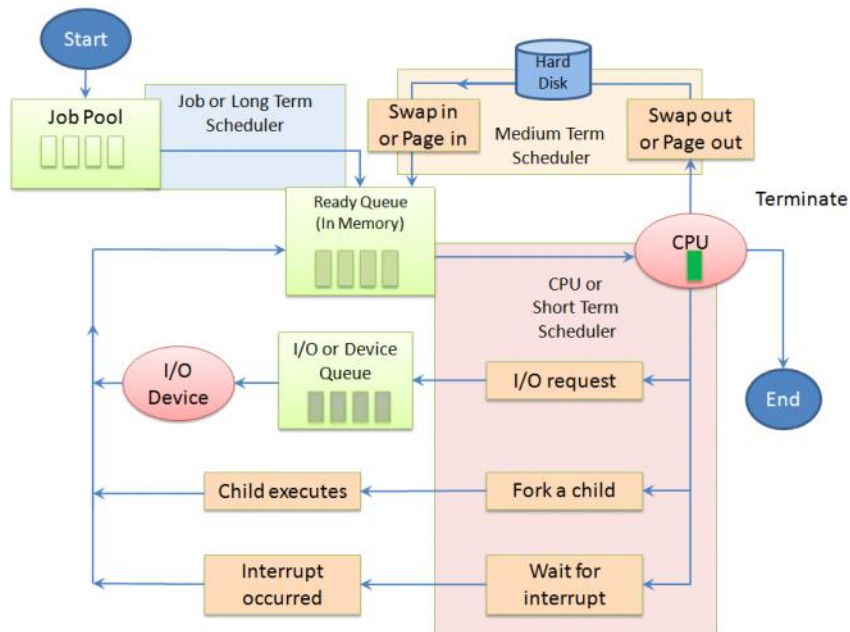
S.No. DOS	UNIX
1. DOS is single tasking operating system.	UNIX are multitasking operating systems.
2. It is monouser (no concept of more than one user)	UNIX are multiuser (with multiple simultaneous users);
3. It consumes low power.	It consumes high power.
4. It has no native support for IP networks.	It come with built-in support for IP networks.
5. It has 3 proprietary implementations (MS-DOS, IBM DOS and DR-DOS) and one free implementation (FreeDOS).	There are many proprietary and free/open source implementations.
6. It is not case sensitive.	It is case sensitive.
7. It is used in embedded systems.	It is mainly used in servers.
8. It uses backslashes.	It uses forward slashes.
9. It has no virtual memory nor protected memory.	It usually have virtual memory and protected memory.
10. It has batch files.	It has shell files.

(<https://www.geeksforgeeks.org/difference-between-dos-and-unix/>)

3. Process Status

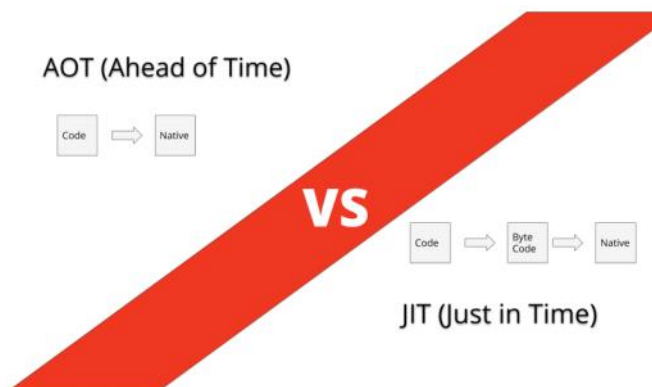


3-1) Ready Queue와 Job Scheduler

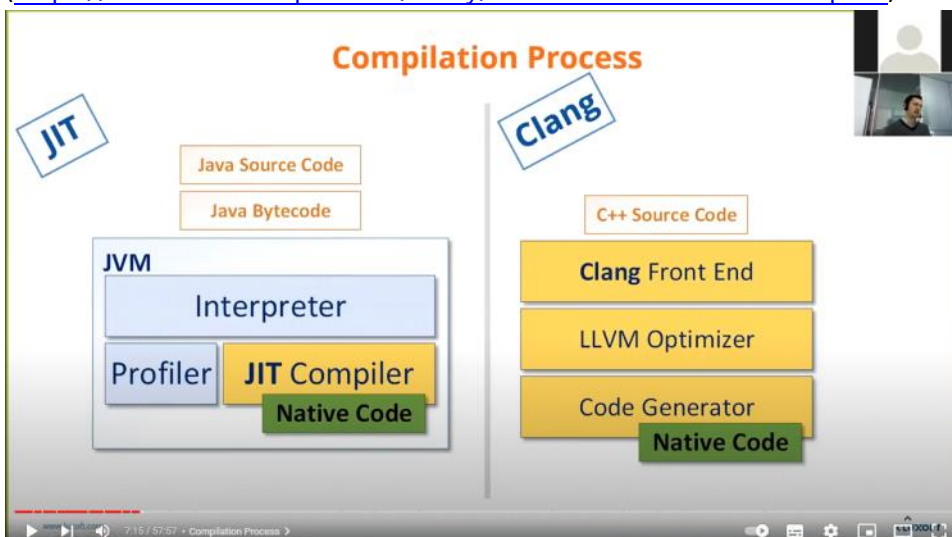


4. AOT(Ahead Of Time) vs JIT(Just In Time) Compiler

: JIT 컴파일러가 바이트코드를 런타임에 기계어로 바꾼다면 **AOT는 실행 전에 바이트 코드를 기계어로 바꾸는 컴파일러**



(<https://selfish-developer.com/entry/AOTAhead-Of-Time-Compiler>)



(<https://www.youtube.com/watch?v=nmRiAh4Y7-M>)

5. Firmware 란?

: Firmware is programming that's written to a hardware device's non-volatile memory.
(별도의 연산장치 없이 HW의 비휘발성 메모리에서 간단하게 돌아가는 프로그램)

<https://www.techtarget.com/whatis/definition/firmware>

6. Zombie / Orphan / Daemon Process

Sl.No	Zombie Process	Orphan Process	Daemon Process
1.	A Zombie is a process that has completed its task but still, it shows an entry in a process table.	A child process that remains running even after its parent process is terminated or completed without waiting for the child process execution is called an orphan.	A daemon process is a system-related process always running in the background.
2.	Zombie process states always indicated by Z	The orphan process was created unknowingly due to a system crash.	Daemon process state indicated by ? in the field of <i>tt</i> column in the output
3.	The zombie process has controlling terminals	Orphan The zombie process has controlling terminals.	The daemon process does not have controlling terminals.
4.	The zombie process treated as dead they are not used for system processing	An orphan process is a computer process even after their parent terminates it is become a parent and continue the remaining task.	A program that runs for a long time makes them as a daemon process and runs it in the background.
5.	To remove the zombie process execute the kill command.	Terminate the Orphan process use the SIGHUP signal.	Daemon process only when system shutdown.

(<https://www.geeksforgeeks.org/difference-between-zombie-orphan-and-daemon-processes/>)