Operating Systems

12/9

CA

70 / 30

15   15

Nov Exam { Linux Labs (— Mid October)
(2-5)

Project { Process
Synchronistions (— Jan.)
Risk condition project report
presentation

Materials : Common Drive
Lecture 1 - 9

Book:

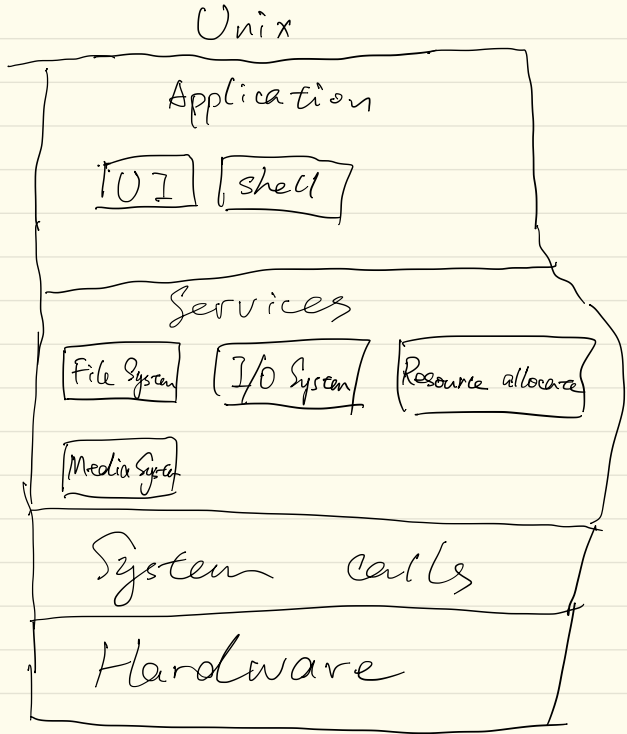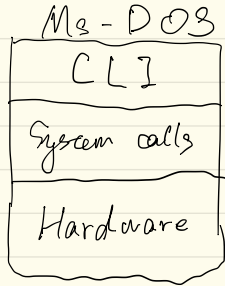- Silbershatz + gagne   9th Edition

19/9/2016

Websites: Google   Scholar
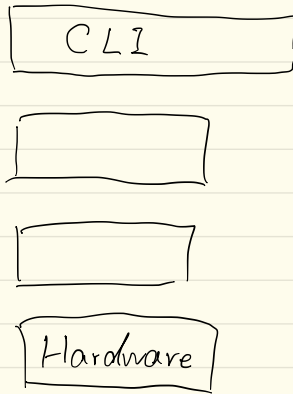
             Research   Gate

22/09/2016

System calls are pre-defined system functions written in high level programming language. Operating Systems can communicate with hardware through the system calls. But it may take lots of instructions to finish a system call.
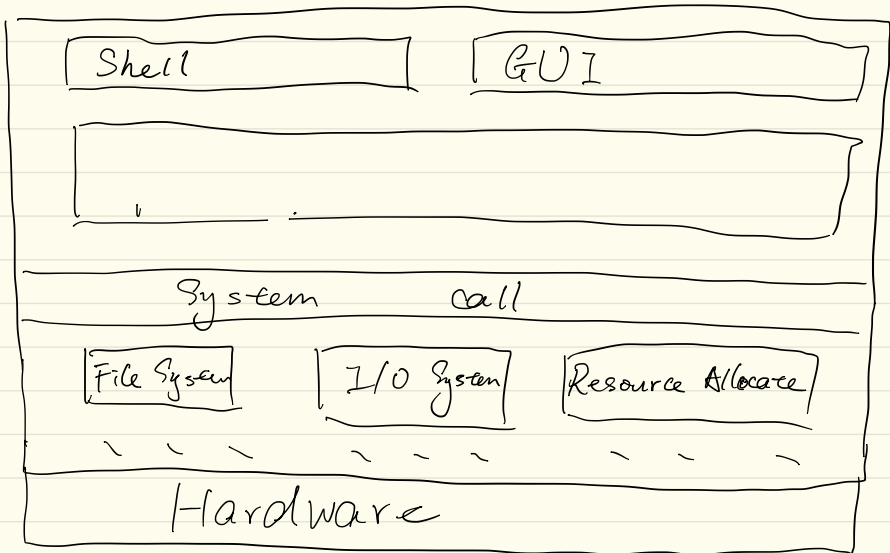
MS-DOS

CLI
System calls
Hardware

Unix

Application

| UI | shell |

Services

| File System | I/O System | Resource allocate |

| Media System |

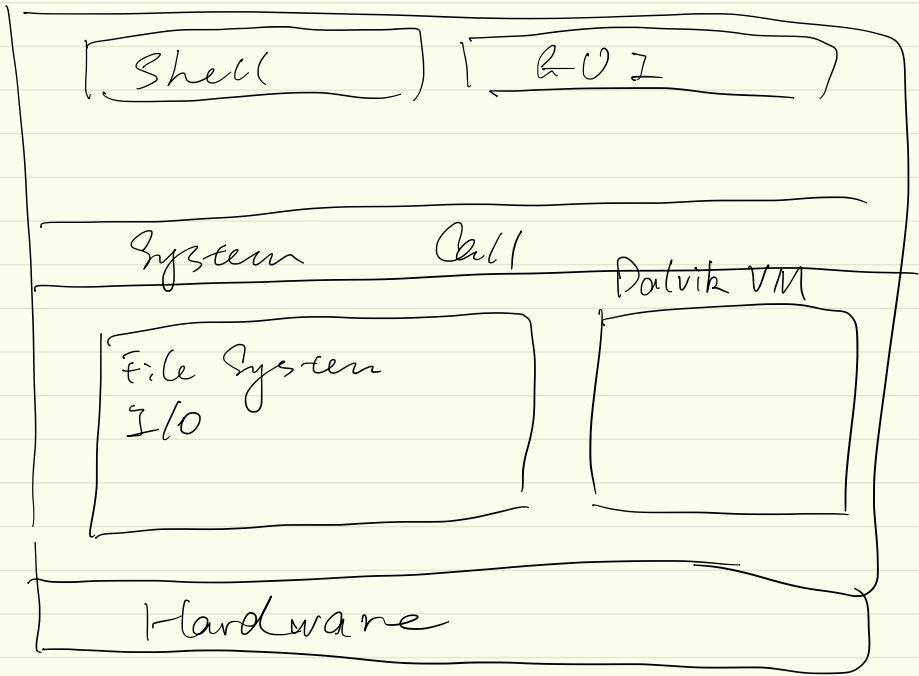| System calls |
| --- |
| Hardware |

※ Dalvik Virtual Machine

1. System calls are services support to Operating
   System. It allow OS communicate/with hardware ^control.

   Resource Allocate / I/O System / File System

2.   MS-DOS

   | CLI |

   | |

   | |

   | Hardware |

3.

   | Shell | | GUI |

   | |
   |_____ . |

   System   call

   | File System | | I/O System | | Resource Allocate |

   | Hardware |

Shell | GUI

System   Call

Dalvik VM

File System
I/O

Hardware

1.

New → admitted → Ready

interrupt

Running

terminate

scheduler dispach

Ready ← I/o or other events finish up ← Waiting ← waiting for I/o or other events
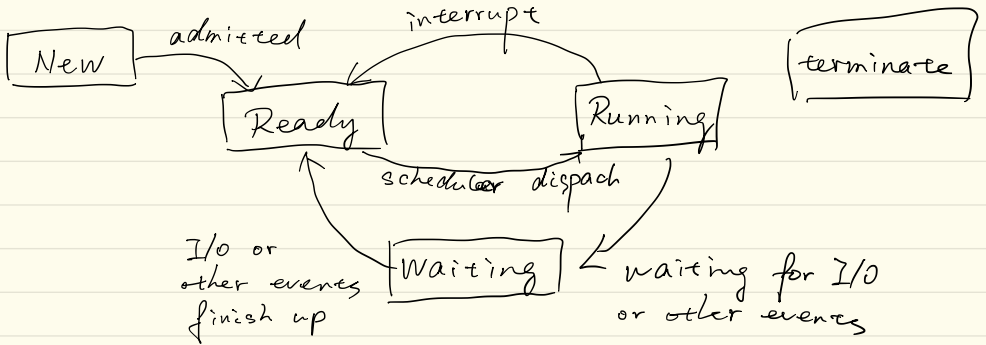
in Mobile:
  iOS: one foreground process
       multipul background process

Android: one foreground process
         background services

3.
        process   state
        process   number
        programe   counter
        address
        limitel memories
        relative files