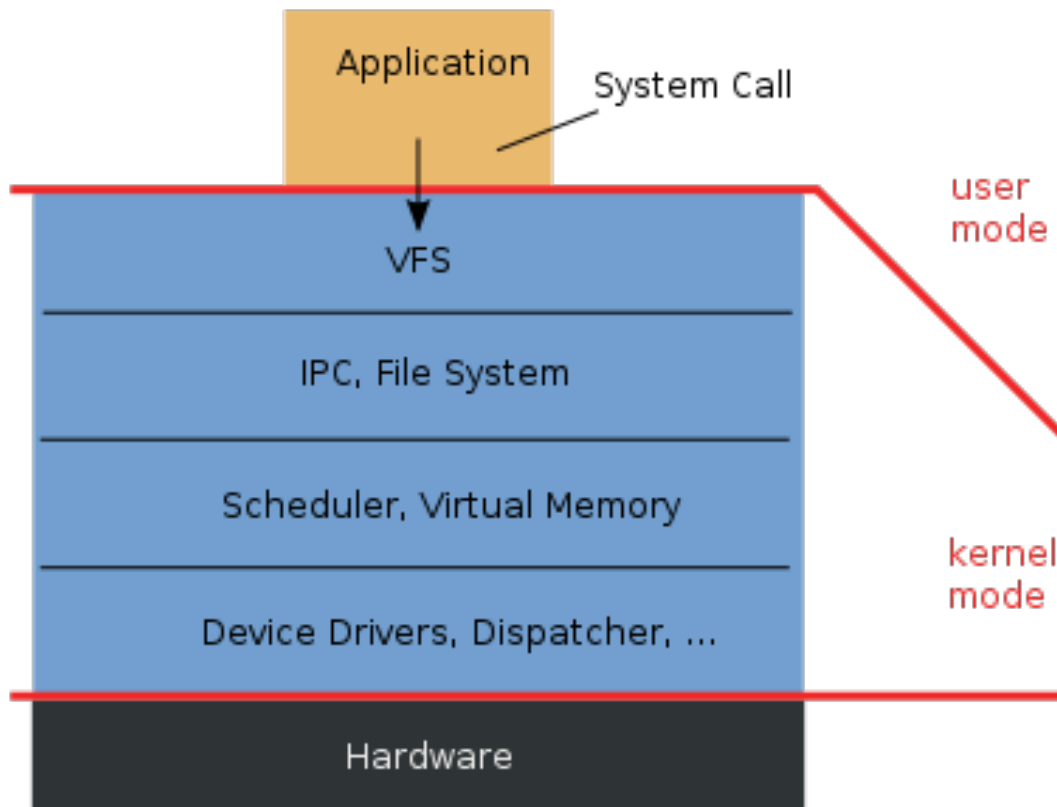# Monolithic Kernel
based Operating System

Microkernel
based Operating System

Application

System Call

VFS

IPC, File System

Scheduler, Virtual Memory

Device Drivers, Dispatcher, ...

Hardware

user mode

kernel mode

Application IPC

UNIX Server

Device Driver

File Server

Basic IPC, Virtual Memory, Scheduling

Hardware