CSCI 480

A program is not equal to a process.

Top – shows what is happening (processes) on turing.

High priority

Nice = low priority

OS -> BASH -> PS

32767 the maximum ID number for tasks.

sshd = secure shell demon: waits until someone wants to connect and then makes it into a process.

Demon – a helper program for the operating system.

What is an operating system?

Operating system goals:

Execute user programs

Make the computer system convenient to use

Use the computer hardware in an efficient manner

Computer System Components:

Three components:

Operating System Definition

OS is a resource manager

No universally accepted definition

“Everything a vendor ships when you order an operating system” is good approximation

-Varies widely

Non-existant (standalone systems)

Mainframes

Minicomputers

Timesharing systems

Unix

PC

DOS  
 Windows: GUI (graphical user interface)

From single-user machine to commodity

The Mythical Man Month – How to organize a programming project. Book to read for career!

Hidden Figures – read book or watch movie.

Timesharing solutions (70s):

Logical extension of multiprogramming

Each user had a process in memory

OS and hardware features needed

If all users