

Last Class: OS and Computer Architecture

OS Service	Hardware Support
Protection	Kernel/user mode, protected instructions, base/limit registers
Interrupts	Interrupt vectors
System calls	Trap instructions and trap vectors
I/O	Interrupts and memory mapping
Scheduling, error recovery, accounting	Timer
Synchronization	Atomic instructions
Virtual memory	Translation look-aside buffers

Computer Science

















Examples of Windows and Unix System Calls

		Windows	Unix
	Process Control	CreateProcess() ExitProcess() WaitForSingleObject()	fork() exit() wait()
	File Manipulation	CreateFile() ReadFile() WriteFile() CloseHandle()	open() read() write() close()
	Device Manipulation	SetConsoleMode() ReadConsole() WriteConsole()	ioctl() read() write()
	Information Maintenance	GetCurrentProcessID() SetTimer() Sleep()	getpid() alarm() sleep()
	Communication	CreatePipe() CreateFileMapping() MapViewOfFile()	pipe() shmget() mmap()
	Protection	SetFileSecurity() InitlializeSecurityDescriptor() SetSecurityDescriptorGroup()	chmod() umask() chown()
ter Science		CS377: Operating Systems	



Computer Science

Compl



















