

Operating Systems Course - Team: FtpOs

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The logo for FtpOS, written in a stylized, green, handwritten-style font.

Friedle-Taferl-Pöhr operating system

Members:

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Operating System:

- programming language: C
- using GeekOS (GeekOS 0.3.0)
- using Bochs as emulator (x86 Emulator 2.3)

List of contributions:

- Executable Files (ELF Format)
 - Segmentation
 - System Calls
 - Scheduler
 - Semaphores
 - Virtual Memory and Paging (under final construction)
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- TODO: File System

Scheduler, Semaphores

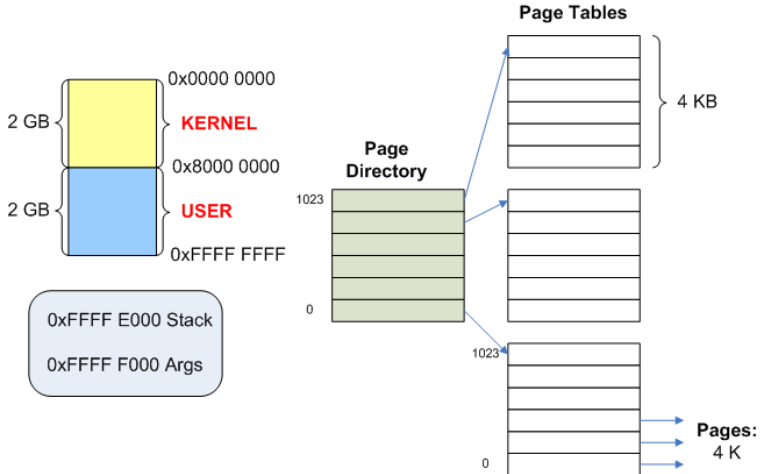
Scheduling

- Round Robin
- Multilevel Feedback Scheduler
- Prio
- switch via a system call:
`int Set_Scheduling_Policy(int policy, int quantum)`

Synchronization

- `int Create_Semaphore(const char *name, int ival)`
- `int P(int sem)`
- `int V(int sem)`
- `int Destroy_Semaphore(int sem)`

Virtual Memory, Paging



Demo overview

Scheduler

- workload.exe [rr|mlf|prio] [quantum]
- Get_Time_Of_Day() system call

Semaphores

- Producer-Consumer Problem
(long.exe, ping.exe, pong.exe)