9.1 History of Linux

Item 1: Nasa was the early adopter, mostly to reduce the cost.
Item 2: Flame wars
Item 3: Item Three Description.

9.2 Beast of a Different Nature (Comparisons with MINIX)

Item 1: Very easily reaches race condition
Item 2: Linux was ported to various hardware, portability made it really useful and popular
Item 3: Kernel got bloated over time, current attempts going on to debloat
Item 4: Can’t add your own scheduler in Linux
Item 5: No servers everything is in the Kernel
Item 6: Things like data structures, crypto already implemented in the Kernel and can be used
Item 7: All process are tasks, with a double link list structure that contain an iterator. This allows quick navigation within the task list
Item 8: MINIX scheduler user-level, and you can choose the scheduler

9.3 Threading in Linux

Item 1: vfork vs fork vs clone
Item 2: For process and thread termination there is a process for process to disappear
Item 3: cleanup and removal are two separate things in Linux

9.4 Multitasking and Scheduling

Item 1: The concept of cooperating multi tasking failed miserably. It put more onous on the applications to be sane
Item 2: CFS combines quota and priorities. This is opposite to MINIX which adjusts niceness values
Item 3: Linux gives priority of I/O

Item 4: What happens when you have a very large number of applications?