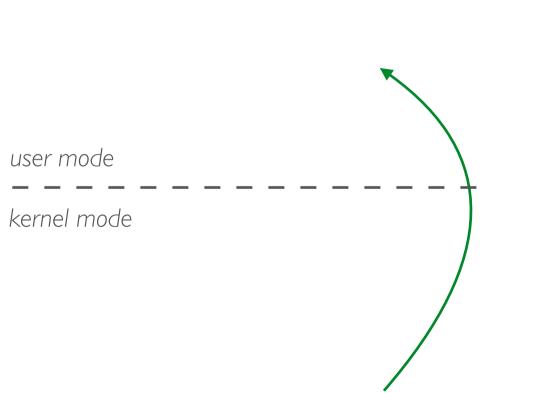
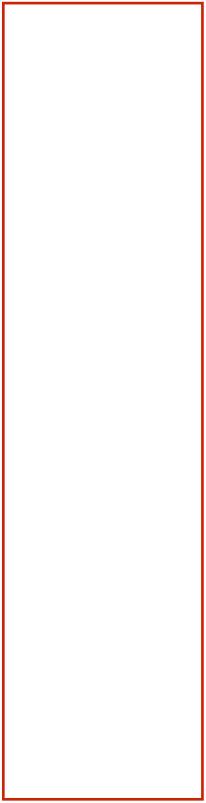


Definition of the process and system calls

principle 3: process can access resources through kernel system-calls



principle 2: the kernel has privileged access to the entire memory (kernel mode)

















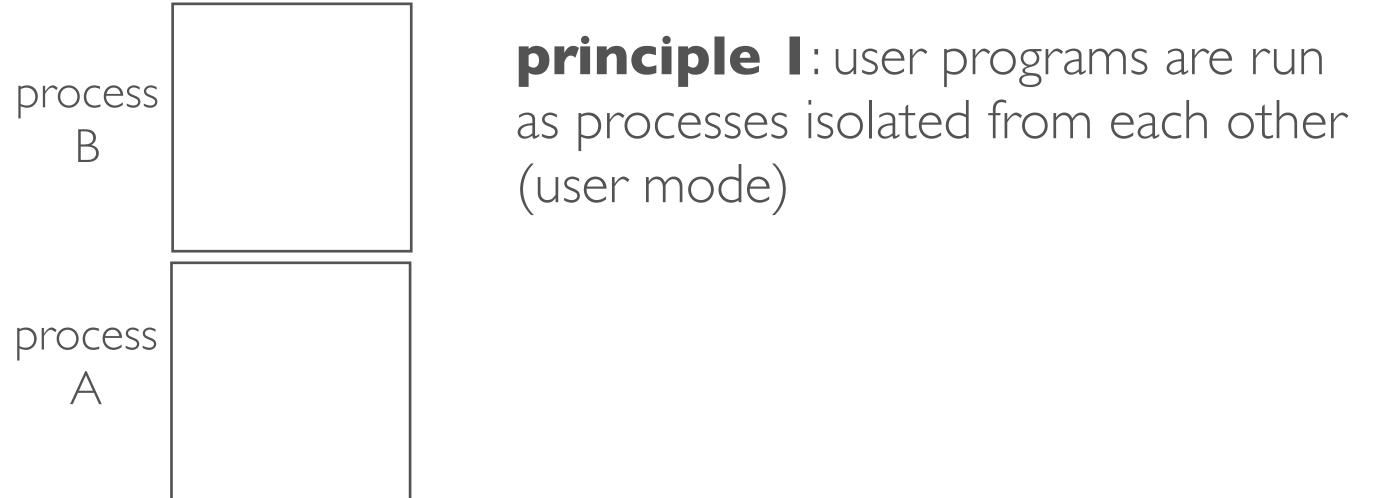




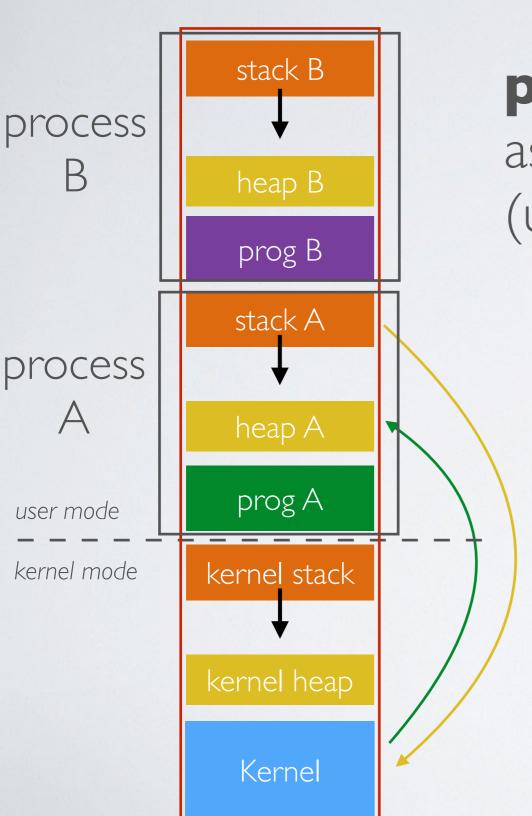
kerne stack







Definition of the process and system calls



principle I: user programs are run as processes isolated from each other (user mode)

principle 2: the kernel has privileged access to the entire memory (kernel mode)

principle 3: process can access resources through kernel system-calls

How can we isolate processes and kernel memory spaces?

→ The Virtual Memory (coming soon)

In a nutshell

- User programs do not directly access the memory but the virtual memory (that is somehow mapped onto the real memory)
- The kernel manages the virtual memory for all processes