

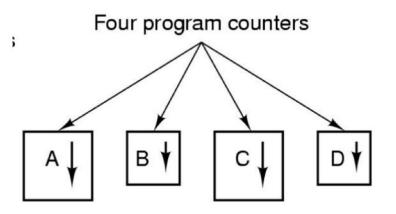




Architectures des Systèmes de Bases de Données

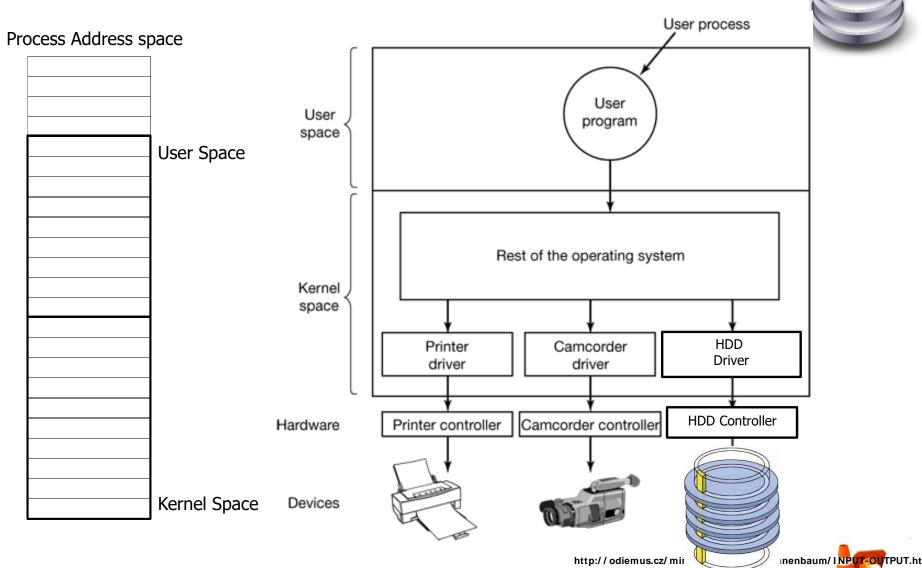


I/O Memory Buffer

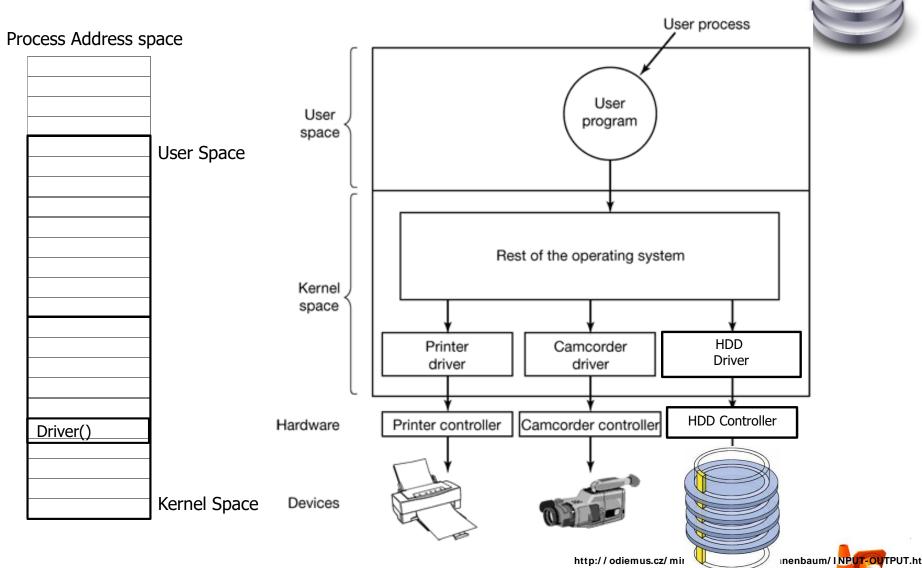




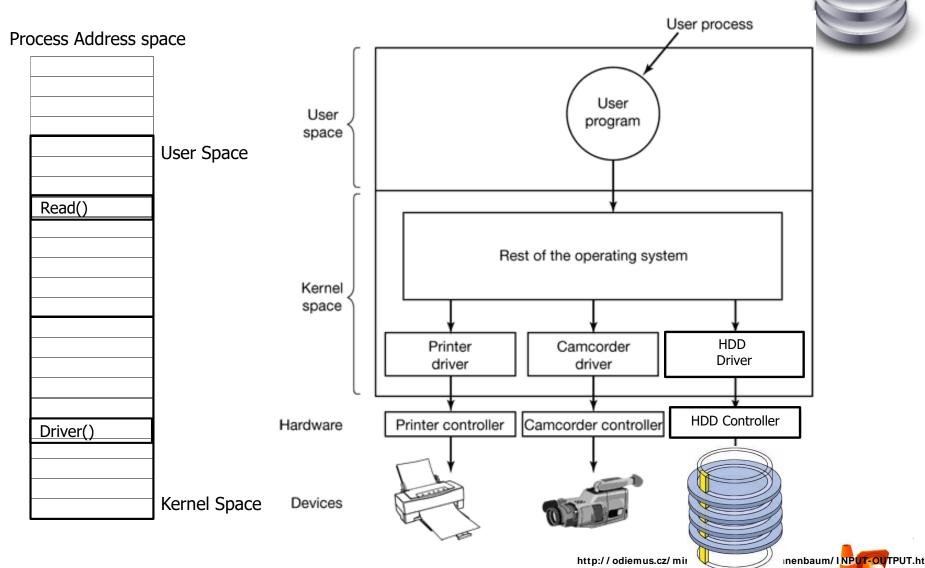
A.S.T: I/O, Process Address Space



A.S.T: I/O, Process Address Space

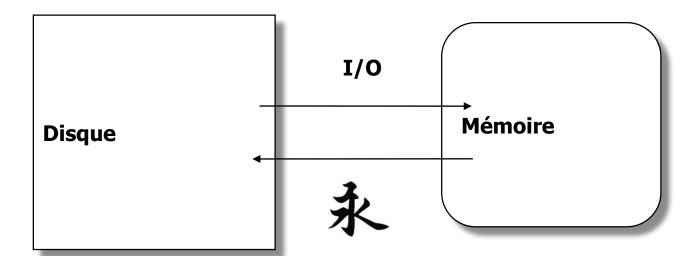


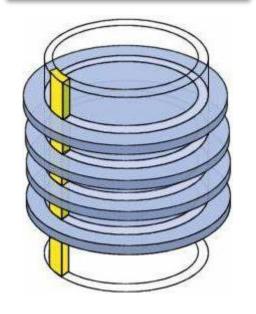
A.S.T: I/O, Process Address Space



Entrées/Sorties, Lectures écritures disques, I/O





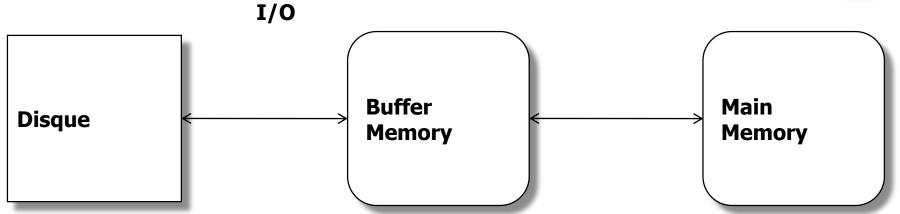






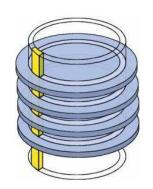
Entrées/Sorties, Lectures écritures disques, I/O





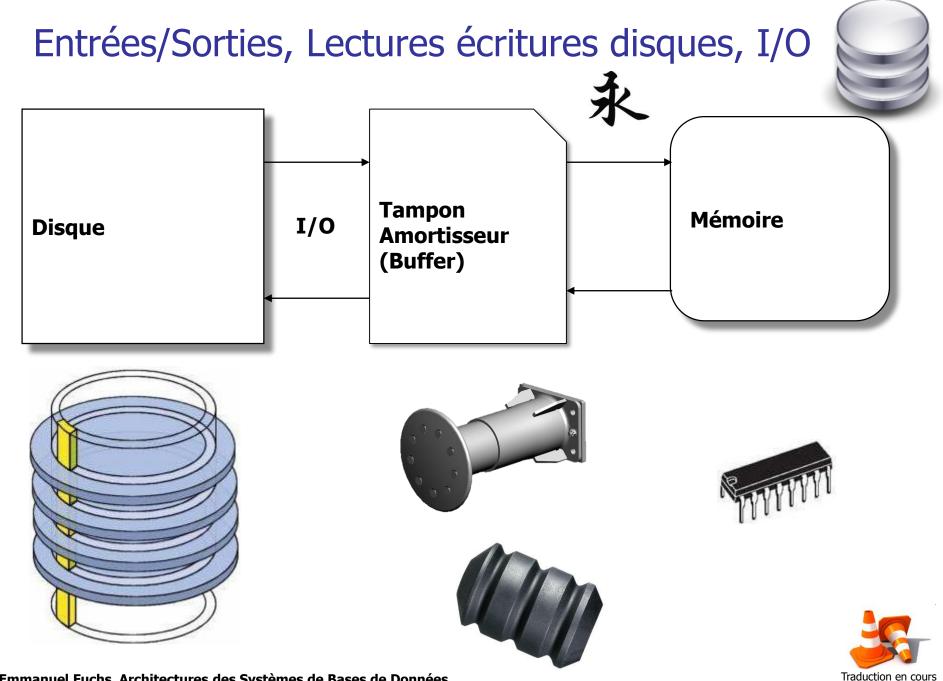












"Buffer definition"





A buffer, also called buffer memory, is a portion of a computer's memory that is set aside as a temporary holding place for data that is being sent to or received from an external device, such as a hard disk drive (HDD), keyboard or printer.







"Buffer definition"





 The original meaning of buffer is a cushion-like device that reduces the shock from the contact of two objects.

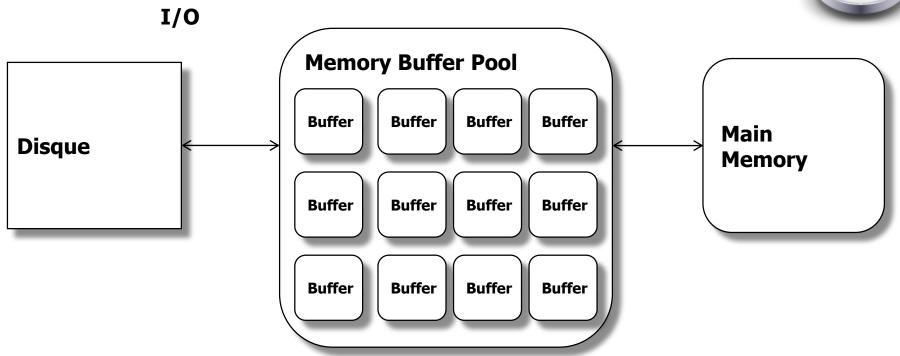


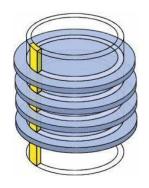


http://www.linfo.org/buffer.html

Entrées/Sorties, Lectures écritures disques, I/O







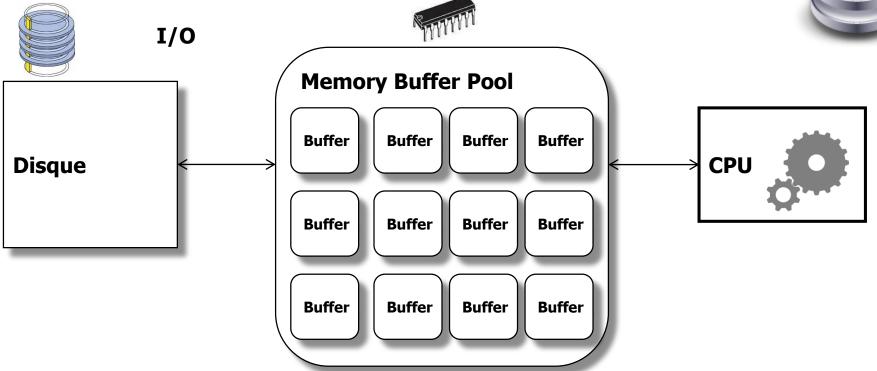


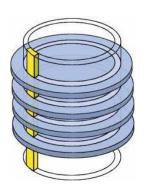




Entrées/Sorties, Lectures écritures disques, I/O







Buffer pool masks I/O transfer delay by allowing data to be read from memory instead of disk.

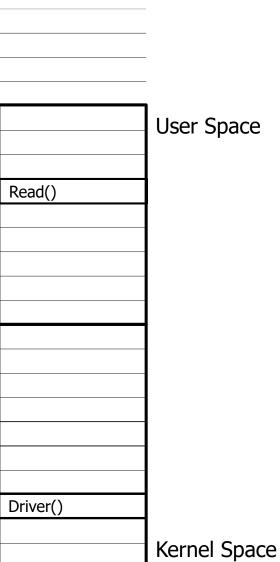






I/O

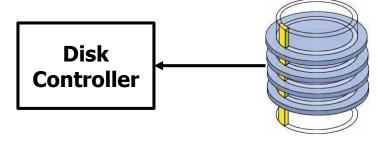
Process Address space



Buffer



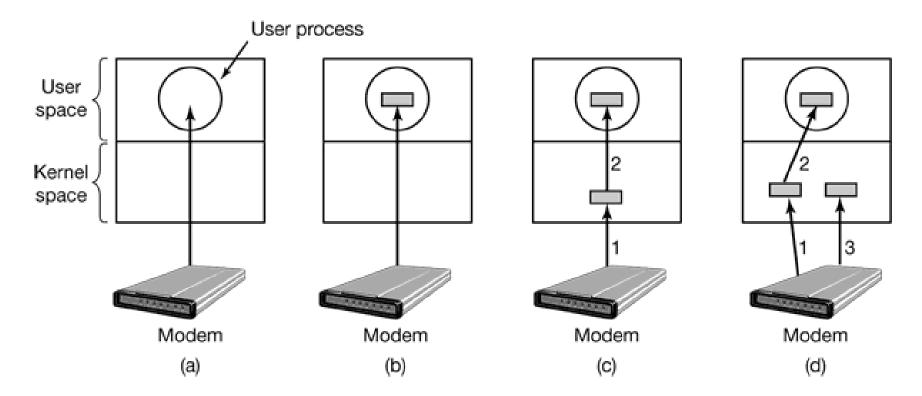






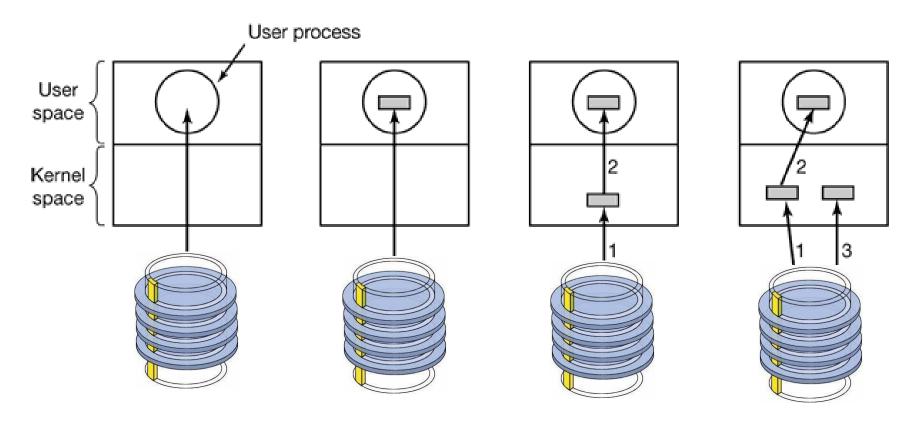










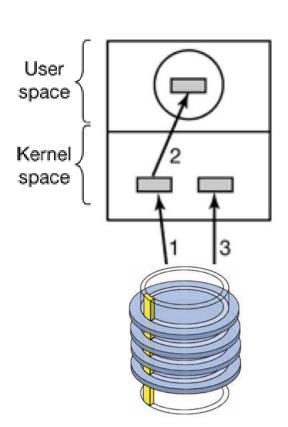


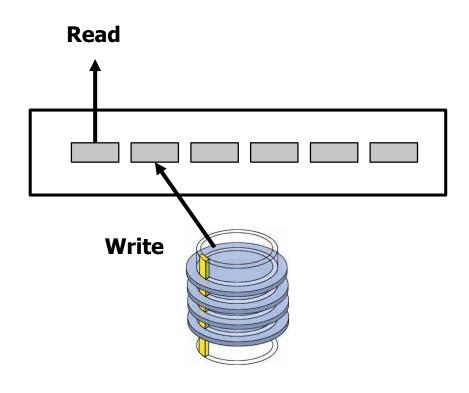








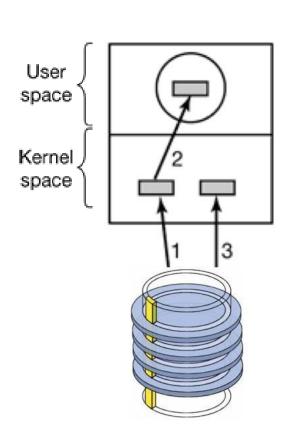


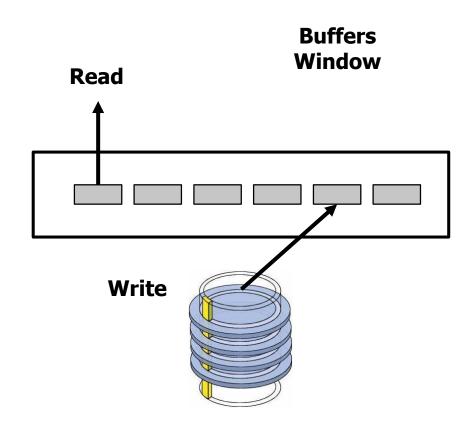








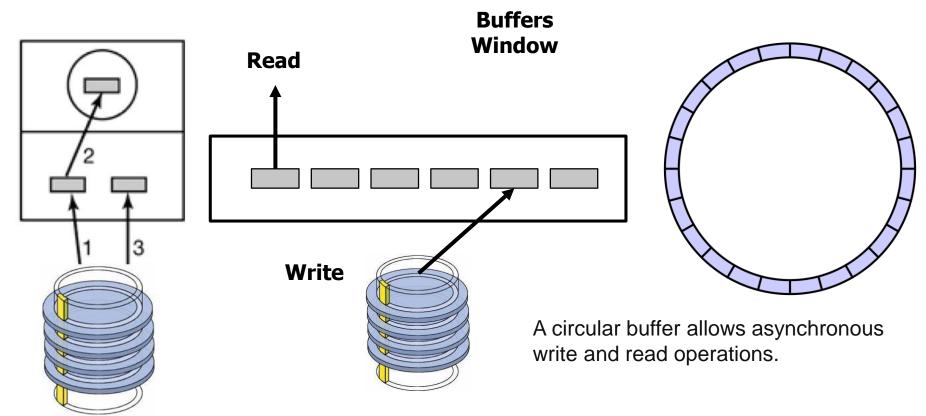












https://en.wikipedia.org/wiki/Circular_buffer

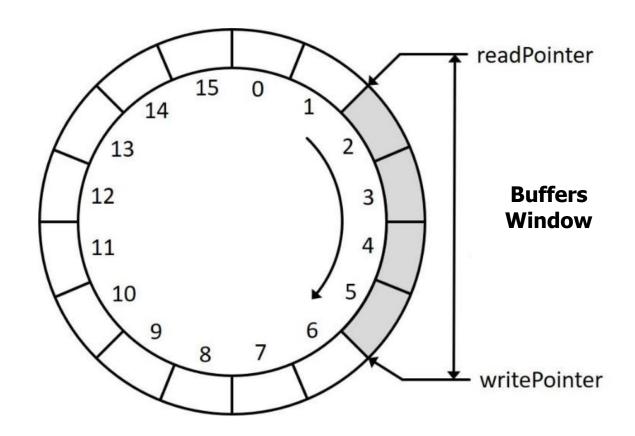




Asynchronous I/O



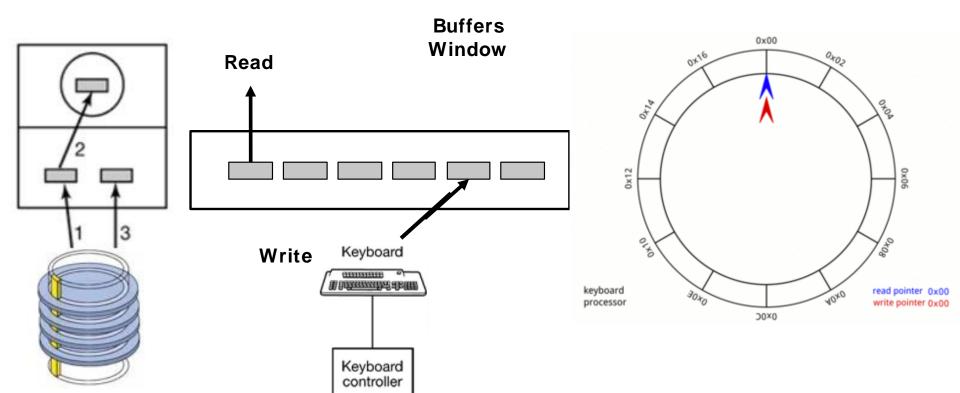
A circular buffer allows asynchronous write and read operations.











https://en.wikipedia.org/wiki/Circular_buffer





I/O

Process Address space User Buffer Kernel Buffer **User Space** Read() Disk Controller Driver() Kernel Space

Traduction en cours

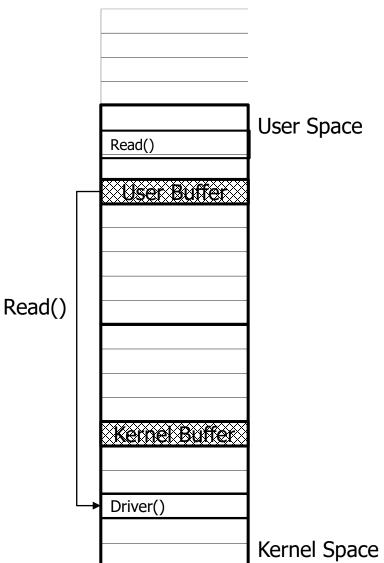
I/O

Process Address space User Buffer Kernel Buffer **User Space** Read() User Buffer Disk Kernel Buffer **Controller** Driver() Kernel Space

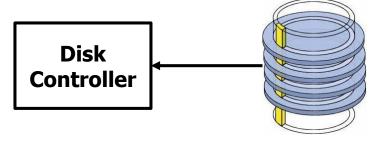
Traduction en cours



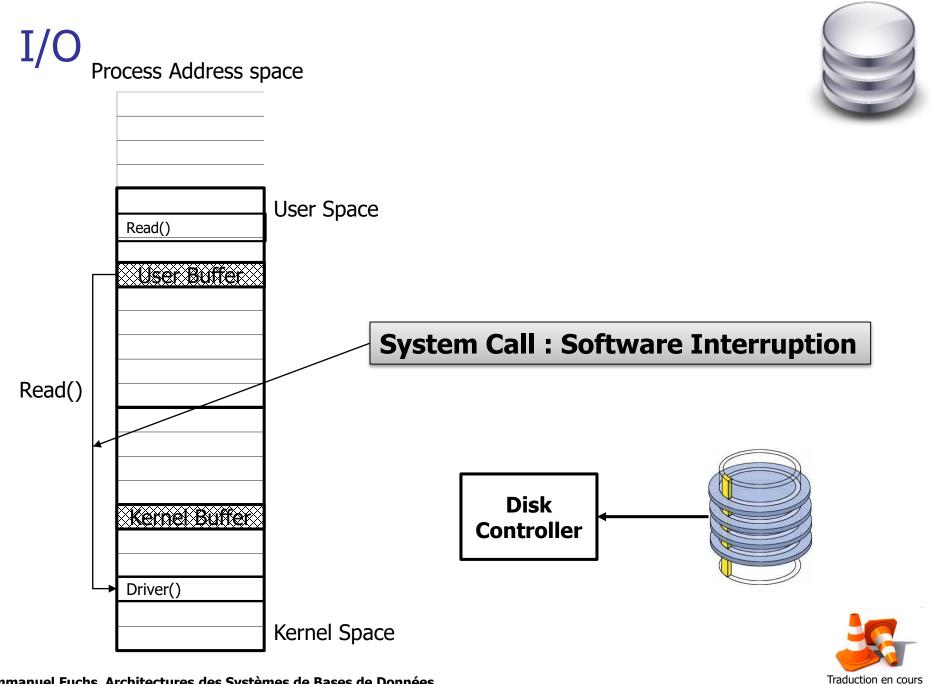
Process Address space





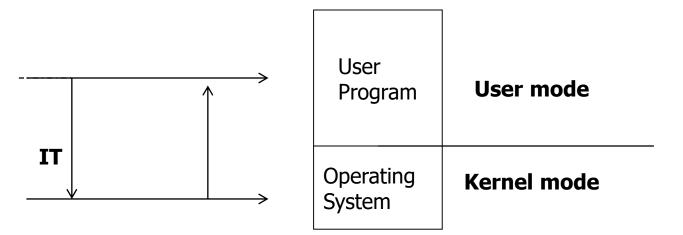




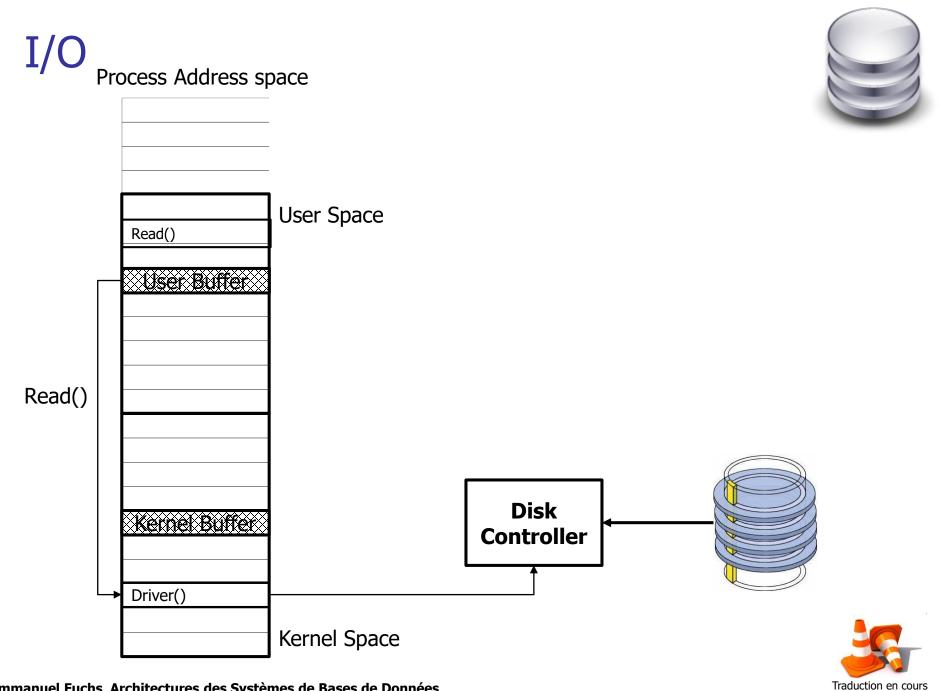


CPU I/O: Software Interruption



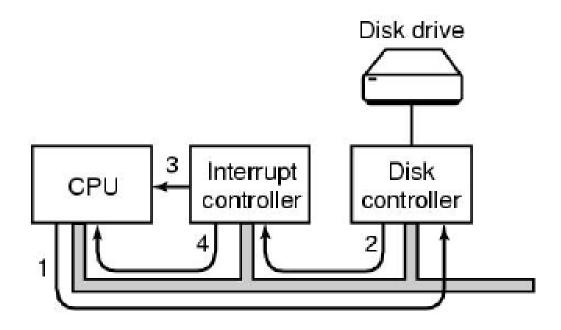




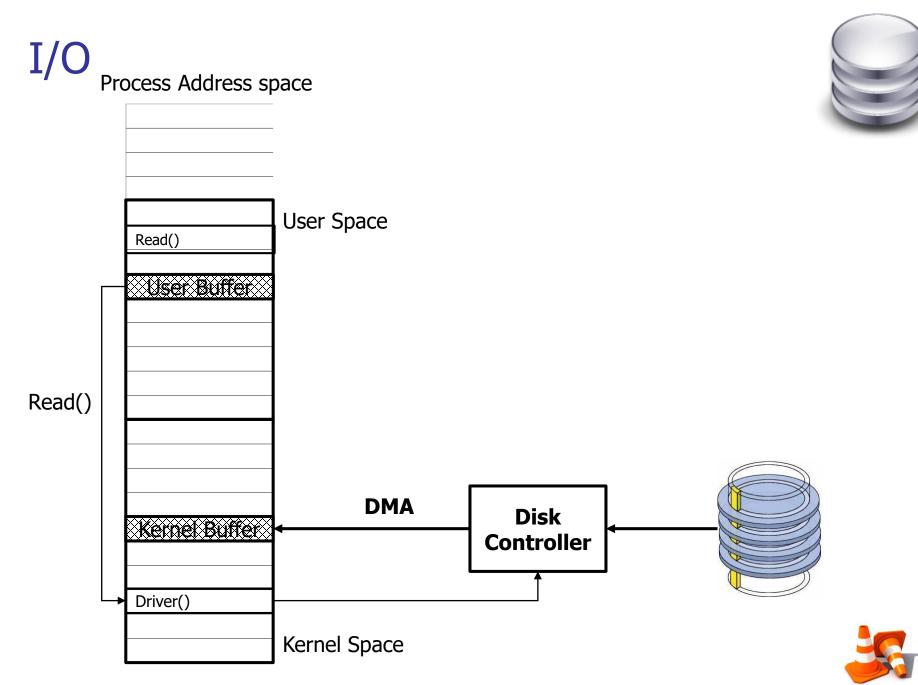


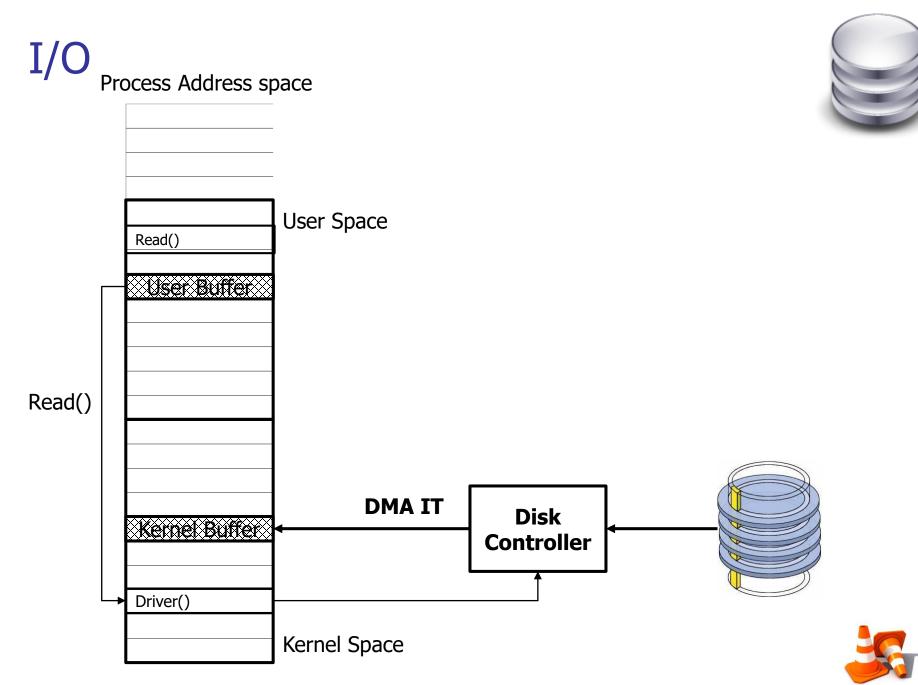
CPU I/O interruption





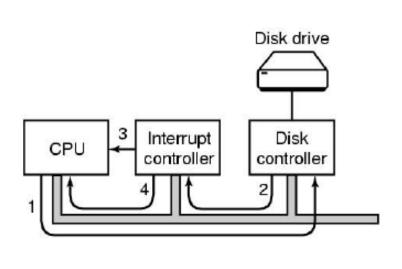




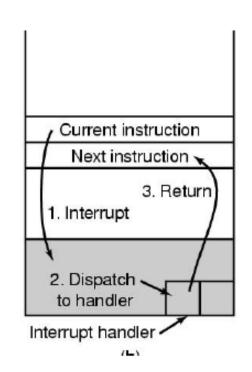


CPU I/O interruption





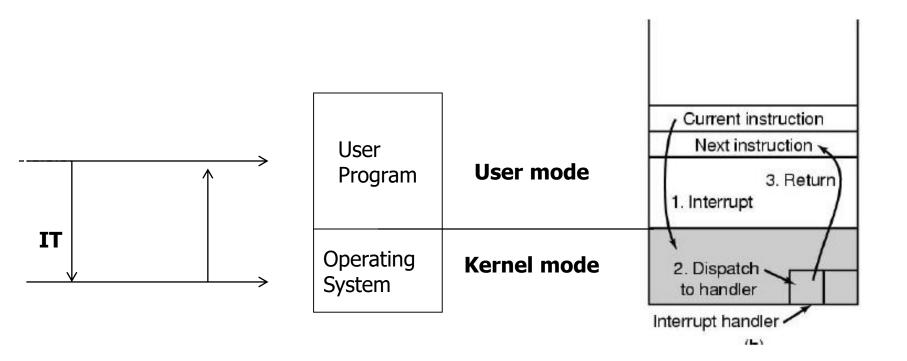
1-1





CPU I/O interruption

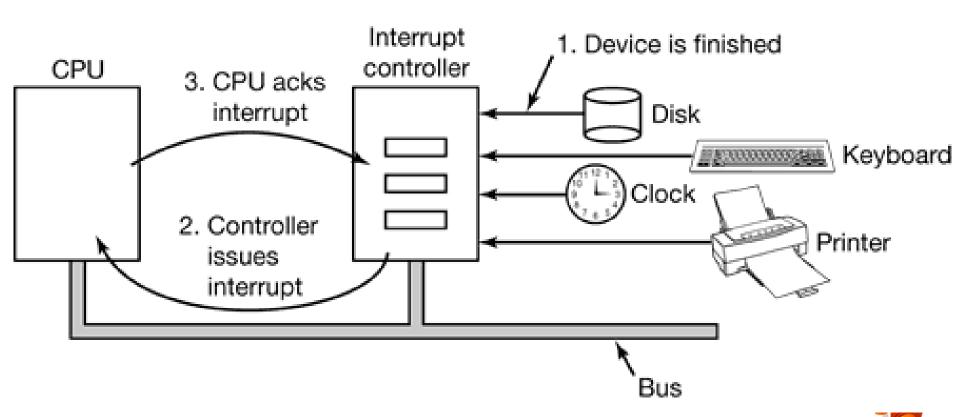


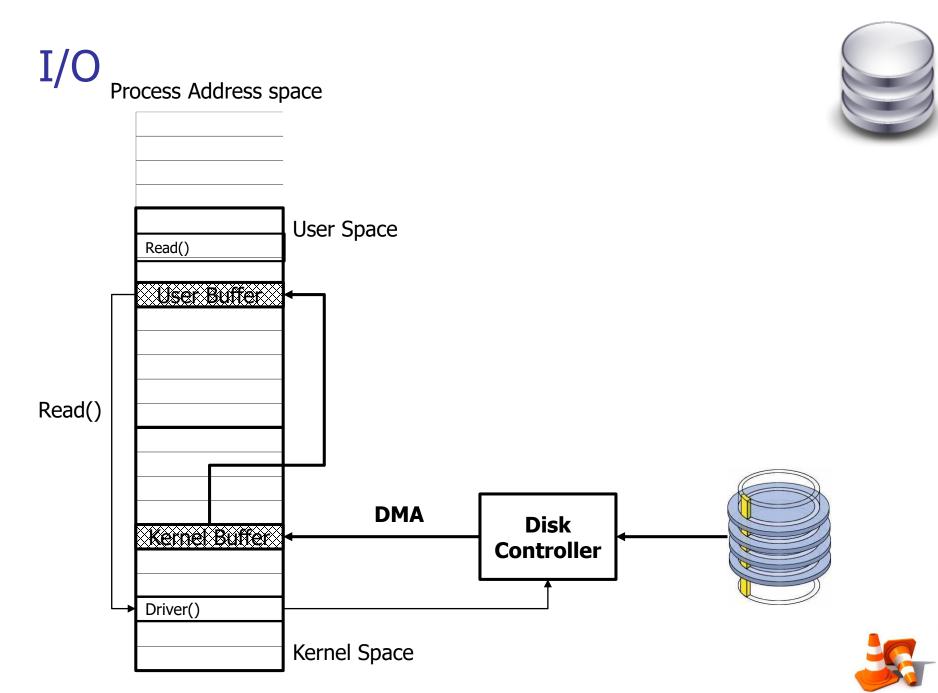




A.S.T: IT

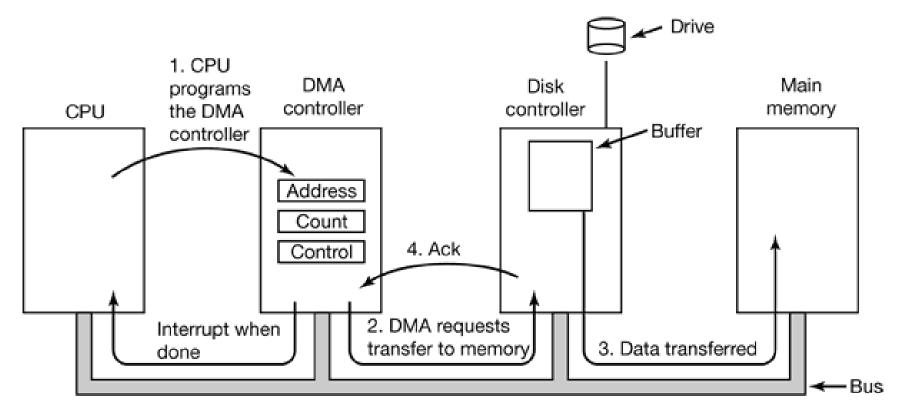


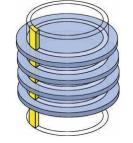




A.S.T: IT DMA, device driver







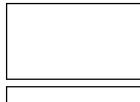


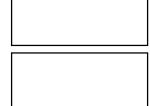
Pages Mémoires















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