## Polling vs Interrupts

## → Interrupts is not always the best solution

If, device performs very quickly, interrupt will slow down the system

E.g. high network packet arrival rate

- Packets can arrive faster than OS can process them
- Interrupts are very expensive (context switch)
- Interrupt handlers have high priority
- In worst case, can spend 100% of time in interrupt handler and never make any progress a.k.a receive livelock
- ✓ Best adaptive switching between interrupts and polling

## One More Problem: Data Copying

 CPU wastes a lot of time in copying a large chunk of data from memory to the device

