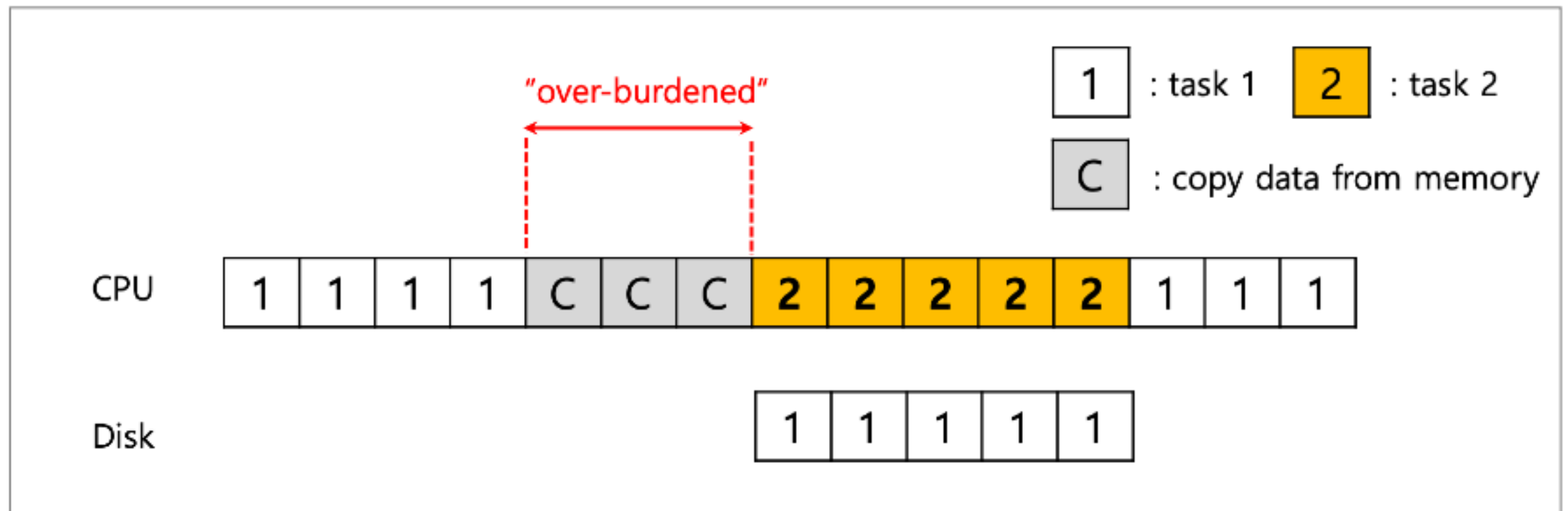# One More Problem : Data Copying

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

Diagram of CPU utilization

DMA (Direct Memory Access)

➡ Only use CPU to transfer control requests, not data, by passing buffer locations in memory

- Device reads list and accesses buffers through DMA
- Descriptions sometimes allow for scatter/gather I/O