## Topic for today:

Memory management
– More on cache memory

## Recall: Cache memory

Cache memory is high-speed memory—smaller, better technology, and physically closer to the CPU than main memory. The cache stores copies of blocks of main memory. Using it is a way to improve speed.

## Notes

1. A cache is <u>transparent</u>: there is no reference to the cache in the instruction set; any program should run whether there is a cache or not; the programmer does not need to think about it. It is controlled by the CPU.

2. A cache could be on a separate chip (old style) or on the CPU chip (modern style).
*Why not both?*