Why do we care?

- Understand capabilities of computer systems:
  - Know what hardware to buy/recommend
- Understand the native language of the computer systems.
- Understand compilers, OS, networks, etc.
- Improve code:
  - Faster performance
  - Better use of I/O (e.g., DB, ntwk, etc.)
  - Better interaction with OS, networks, etc.
- Reverse engineering
  - You have the executable but not the source.
  - Include the scenario of studying computer viruses.

Course Information
Topics
Resource
Advice
Announcements
What is CISS360 about?
Why study CISS360?

Why do we care?

- Programming in assembly language forces one to be detail–oriented
- Understand of how a complex system is made up of layers in the context of computer systems. Important for all forms of engineering including software engineering.
- R&D in Computer Architecture for the generation of CPU/GPU chips
  - Computer Architecture research is also done in CS departments, not just Computer Engineering departments.