

Why do we care?

When you write assembly (or machine) code,
you touch the soul of the machine.

What will you learn?

- Assembly language programming of course ... but not only that!!! ...
- Computer architecture and organization
 - What is the high level structure and organization of components of the computer?
 - What impacts the organization have on performance?
- Software
 - How does the architecture and organization impact software performance?
 - How is a high level program source translated into machine program?
 - How does a machine execute machine code?
 - How are source code in languages like Java and Python compiled and executed as bytecodes?