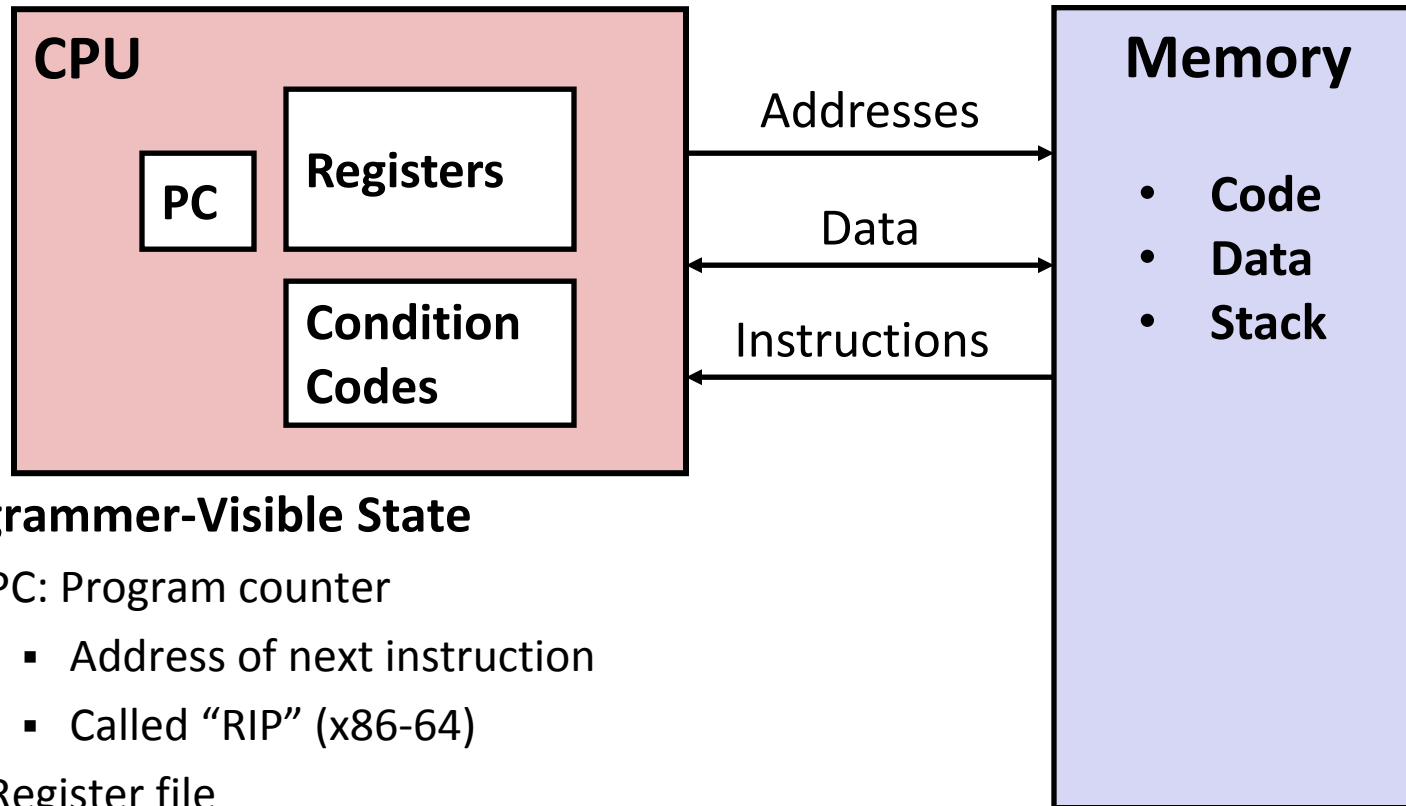


Assembly Programmer's View



■ Programmer-Visible State

- **PC: Program counter**
 - Address of next instruction
 - Called "RIP" (x86-64)
- **Register file**
 - Heavily used program data
- **Condition codes**
 - Store status information about most recent arithmetic operation
 - Used for conditional branching

■ Memory

- Byte addressable array
- Code and user data
- Includes stack used to support procedures (we'll come back to that)