



program

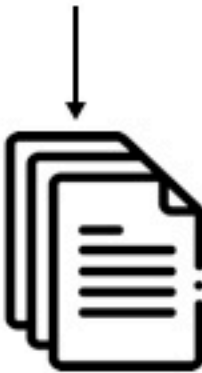
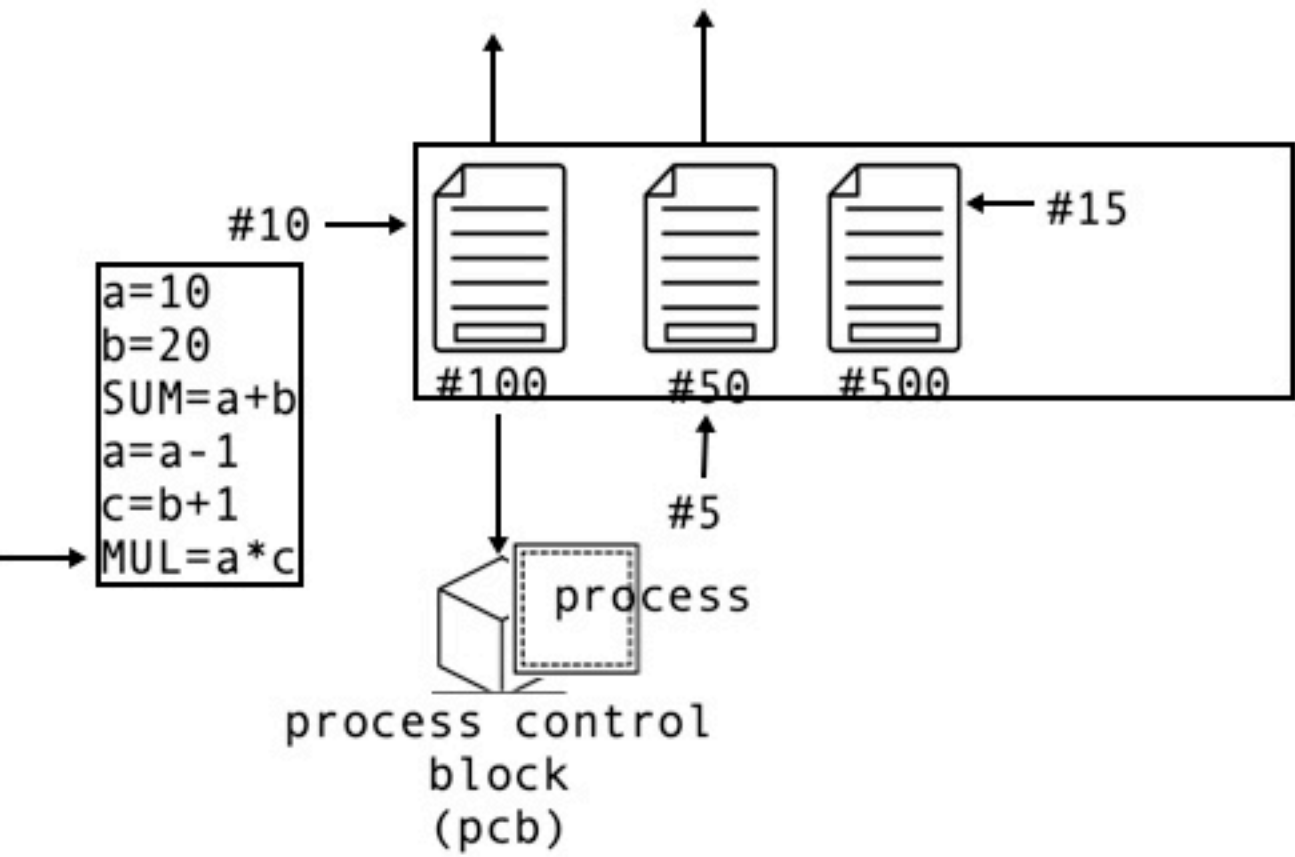
#100 lines of instructions

1. cpu bounded
arithmetic
logical
relational
operations
2. i/o bounded
reading the data from keyboard/mouse/disk
writing the data onto
monitor/printer/network/disk

operating systems uses job scheduling
algorithms

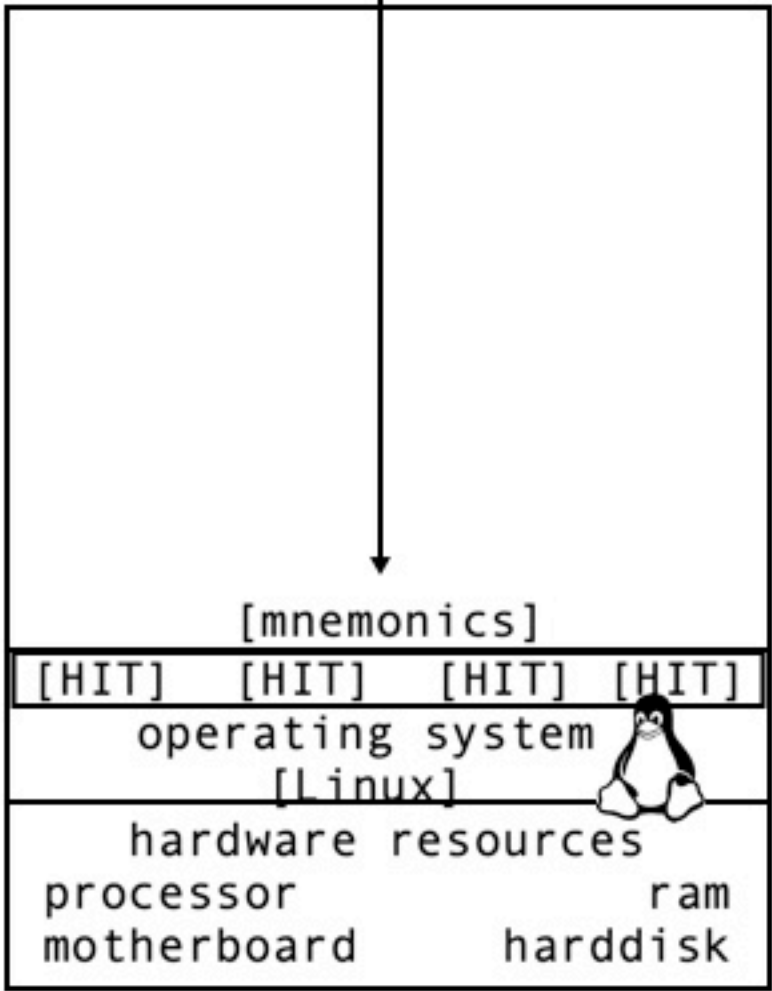
1. round-robin
 2. shortest-job first
 3. priority based scheduling
 4. time-slicing
- etc

context switching
process switching



programs

Program: bunch of instructions written in a File,
that is passed to the operating system of the
computer asking him to execute on the underlying
hardware computer to perform some operation.



Linux: multi-user, multi-tasking operating system

Different users of the computer can pass different programs asking
the Linux operating system to execute.

The Linux operating system should be able to share the physical
system resources across these programs in running them, which is
called "Program management".

The Linux operating system inorder to keep track of the information
about the running programs it creates an process file under the
Filesystem of the computer in which it keeps track of the
information about the current running program

1. Program File
 2. owner
 3. started
 4. hardware resources
 5. ram
 6. memory
- etc