

Running Program = Execute Instructions

Von Neumann model of computing

- = one of the basically computer architecture.
- Central processing unit
- Control unit
- Memory
- Input section
- Output section

other words

Virtualization, Resource manager, Multi thread program, and more,,,

Process = Execution unit of Program

- Image
- Memory
- File descriptor (FD)
- Security attributes
- Processor state

The OS holds most of the information of each process as a data structure called a

Process Control Block (PCB)

Thread = Execution unit in Process



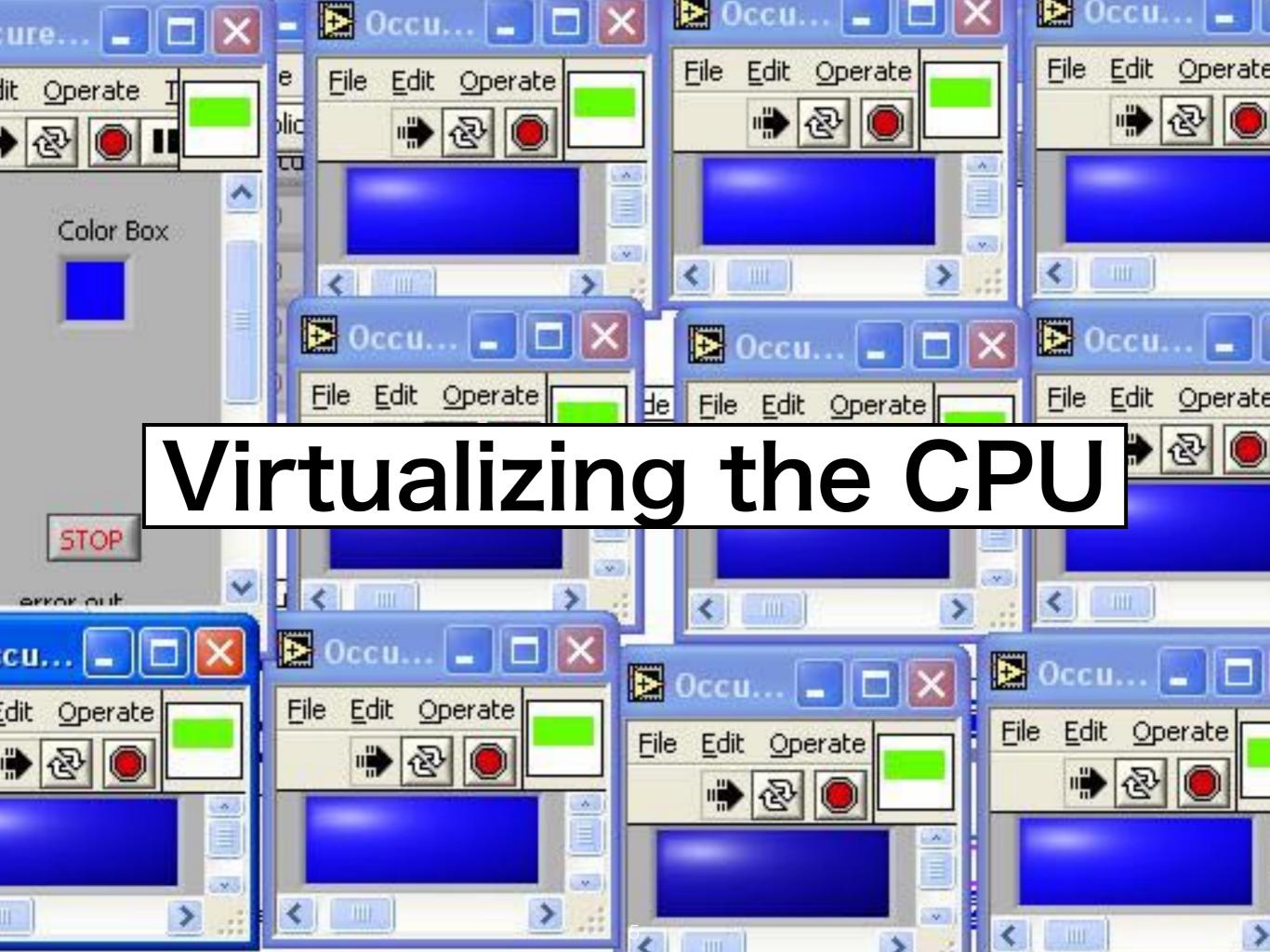
role class

System process

User process

property class

- Re locatable
- Re usable
- Re cursible
- Re entrant

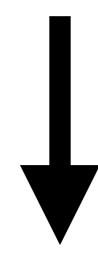


merit:

Multiple processes can run at the same time.

demerit:

Performance is reduced.



Time-sharing mechanism

Process state management



Time-sharing mechanism decide

by OS policy.

= OS specific algorithms

- Workload
- Performance index
- History of executed programs

