## introduction

the components of VM370

control program: split the single machines to form multiple machines

conversational monitor system: the OS in one virtual machine

remote spooling and communications subsystems: the communications among vms

CP: privide separate computing enironments athte machine instruction level.

two kinds of instruction states: privileged and problem

privileged: influence on the whole machine

problem: innocuous for other vms

### control program

some parts are used to manage and allocate the resources; others are used for the virtual machines

two modes: basic control mode and the extended control mode

basic control: do not include the virtual memory hardware

extended: an OS that controls virtual memory is executed in a virtual machine

### conversational monitor system

file system: manages permanent information stored on disk(single level structure to reduce the complexity)

### remote spooling and communications system

operates in a virtual machine which has attached telecommunications lines, channel to channel connections and other computer communication devices

for data-file transfers between machines and workstations