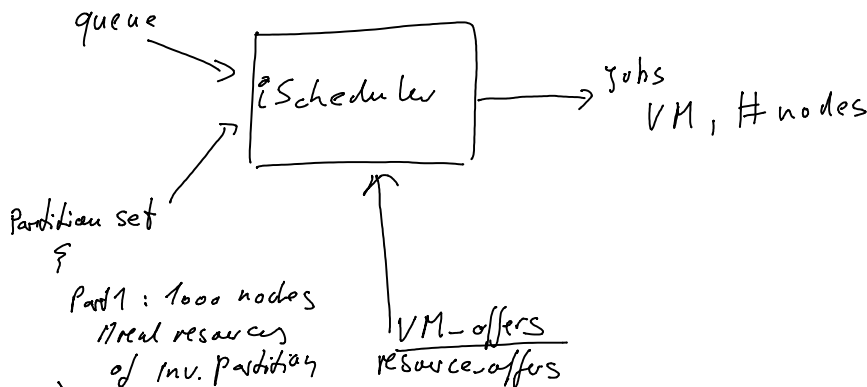
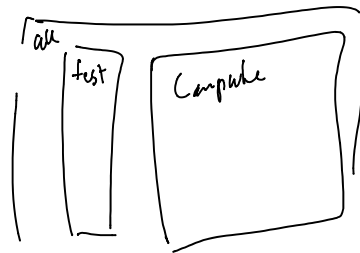


Job-spec: range of feasible nodes numbers
 - constraints, e.g., node number needs to be power of two
 - characteristics, e.g., memory bound, compute bound
 memory requirements



Partition set
 {
 Part 1: 1000 nodes
 17 real resources
 of inv. partitions
 }

- 2 jobs, 100 nodes
 - guaranteed 2 VM nodes - total nodes
 -



(iMH) (iH) - n jobs, Σ ... nodes
 iMetahypervisor \rightarrow iHypervisor

- deadlines
 - energy
 - power

+ VM specifications
 + #nodes
 + #jobs
 - job requirements, memory, compute bound

+ VM-offer: set of VMs

+ Negotiation protocol (QoS)

+ iH sends an offer

+ iMH replies with - job list
 - request different offer

+ iMH iH agreement

+ Management Protocol

+ check job status // pull vs push
 + kill job
 + send signal
 + launch job