

CLOUD COMPUTING CONCEPTS with Indranil Gupta (Indy)

GRIDS

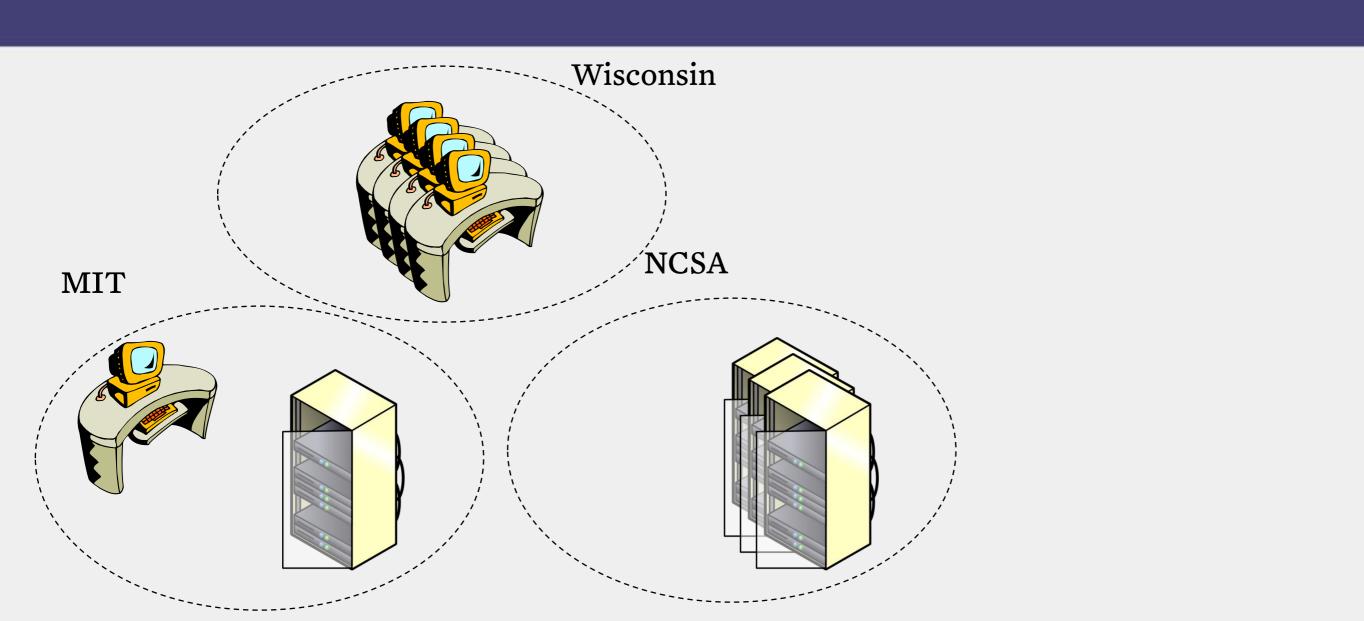
Lecture A

GRID APPLICATIONS

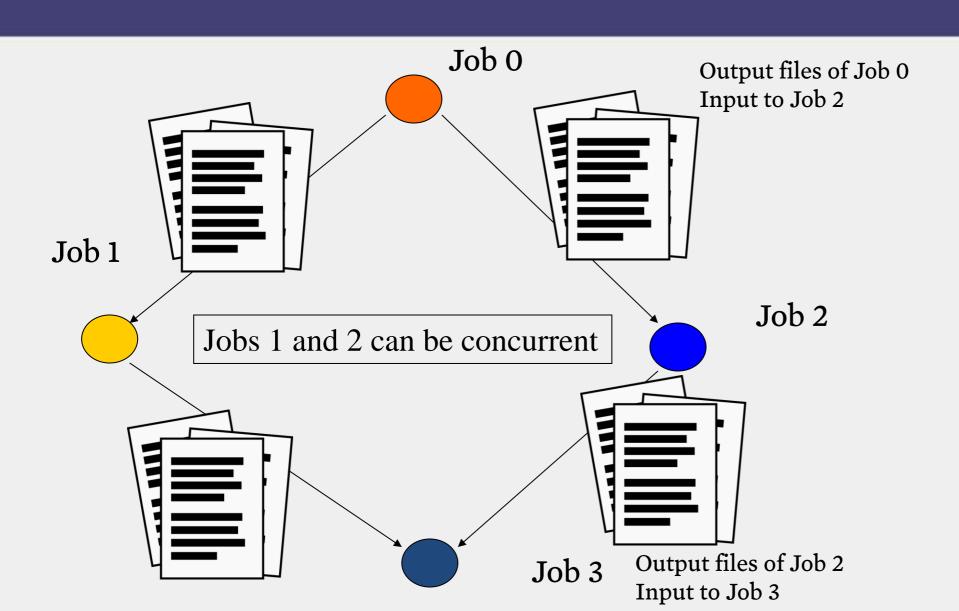
EXAMPLE: RAPID ATMOSPHERIC MODELING SYSTEM, COLOSTATE U

- Hurricane Georges, 17 days in Sept 1998
 - "RAMS modeled the mesoscale convective complex that dropped so much rain, in good agreement with recorded data"
 - Used 5 km spacing instead of the usual 10 km
 - Ran on 256+ processors
- Computation-intensive computing (or HPC = High Performance Computing)
- Can one run such a program without access to a supercomputer?

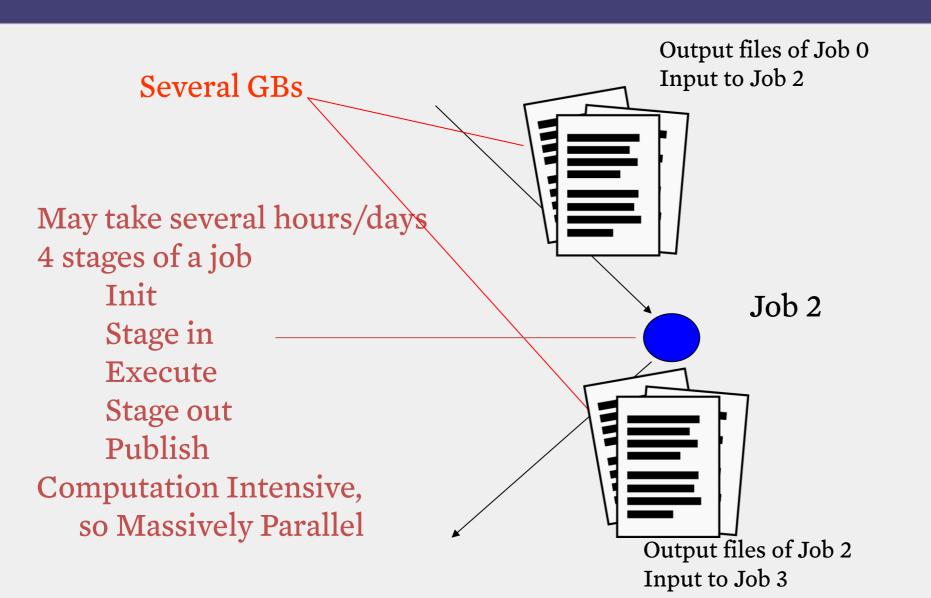
DISTRIBUTED COMPUTING RESOURCES



An Application Coded by a Physicist/Biologist/Meteorologist



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NEXT: SCHEDULING PROBLEM

