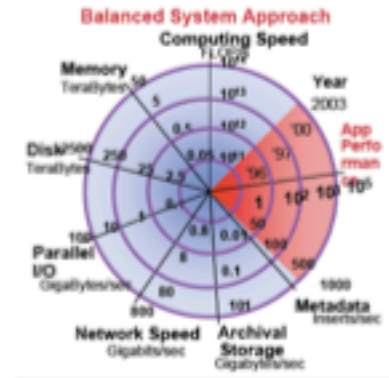
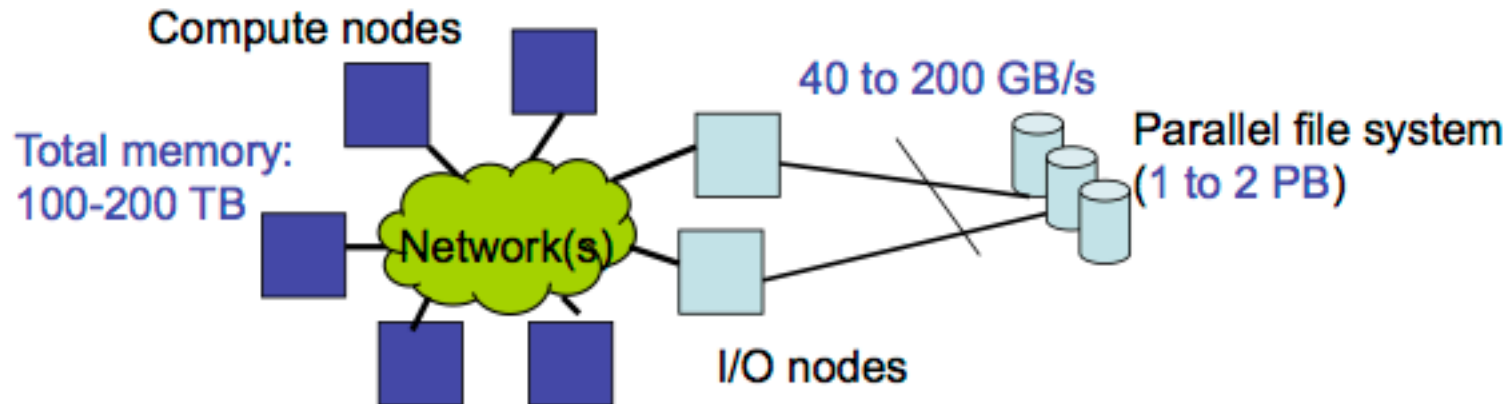


Classic approach for FT: Checkpoint-Restart

Typical “Balanced Architecture” for PetaScale Computers



RoadRunner



TACC Ranger



LLNL BG/L



➡ Without optimization, Checkpoint-Restart needs about 1h! (~30 minutes each)

Systems	Perf.	Ckpt time	Source
RoadRunner	1PF	~20 min.	Panasas
LLNL BG/L	500 TF	>20 min.	LLNL
LLNL Zeus	11TF	26 min.	LLNL
YYY BG/P	100 TF	~30 min.	YYY