LECTURE

RAID

RAID redundant array of indepent disks Num idea: don't just use one disk; why? disk = Addr % Disks -> performance offset = Addr / Num Disks to period in period (not fish) and go! -> capacity -> reliability no change to host above all done transparently: (interface: just like disk narray of blocks read + write) I sesI h/w rold: (men) norks, or fails early de kelled) Perf Analysis. entire disk Latency of single request fault model: Throughput of many regrests striping RAID-O: - random (small) -> sequential (large) anyroung RAID-1: RAID-4: rotated parity RAID-S Rs Ry R, Po (N-1) 5 (N-1) S ¥.5 N-S Seq Read (N-1)5 (N-1) S N 5 seq wak N.5 N.R. (N-1)R N.R N.R Rand Real NY R 1 R N.R Rand home 2 o tencya

Caterryw

Simulator: