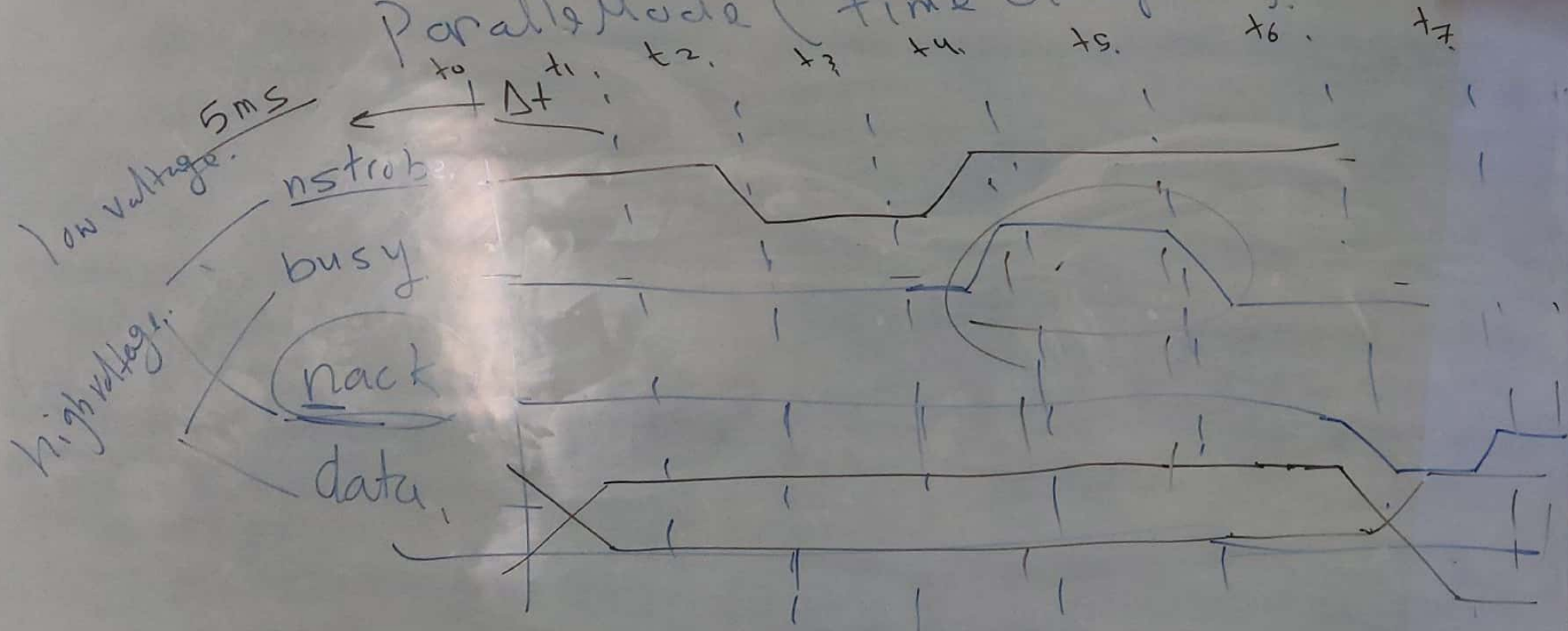


Data Transmission Modes

Parallel Mode (time diagram)



* Suppose your company has decided that it needs to make certain busy servers 50% faster. Processes in the workload spend 60% of their time using the CPU and 40% on I/O disk in order to overall speedup 25%.

$$Cpu \rightarrow f = 401, k = ??, S = 1.25$$

$$S = \frac{1}{(1-f) + (f/k)} \quad k = 2 \downarrow 1001$$

$$1.25 = \frac{1}{(1-.4) + (.4/k)}$$