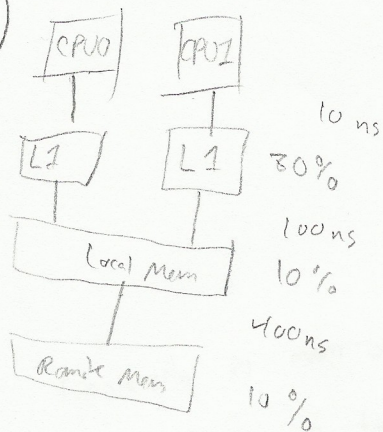


Parallel Comp.

2.6)



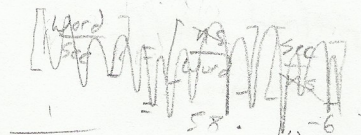
Access time \Rightarrow ns/word

ns/word

$$0.8 \times 10 + 0.1 \times 100 + 0.1 \times 400 \text{ ns/word}$$

$$= 58 \text{ ns/word}$$

FLOPS \Rightarrow Word/sec



$$\left[\frac{\text{Flop}}{\text{sec}} \right] = \left[\frac{\text{ns}}{\text{word}} \right] \left[\frac{\text{sec}}{\text{ns}} \right] = 58 \times 10^{-9}$$

100 cycle 1 GHz

$$\text{access time} = \frac{100}{1,000,000,000} \text{ sec} = 10^{-7} \text{ sec} = 100 \text{ ns}$$

$$0.75 + 0.25 \times 100 = 25.75 \text{ ns/word}$$

38.8 MFLOPS