

EMAT Example

Hardware	Miss Rate	Hit Time (ns)
L1	15	4
L2	45	10
L3	60	15
Main Memory	0	60

$$EMAT_{L3} = 15 + 0.60 \cdot 60 \text{ ns} = 51 \text{ ns}$$

$$EMAT_{L2} = 10 + 0.45 \cdot 51 \text{ ns} = 32.95 \text{ ns}$$

$$EMAT_{L1} = 4 + 0.15 \cdot 32.95 \text{ ns} = 8.94 \text{ ns}$$