



Effective Access Time

- Associative Lookup = ϵ time unit
 - Can be $< 10\%$ of memory access time
- Hit ratio = α
 - Hit ratio – percentage of times that a page number is found in the associative registers; ratio related to number of associative registers
- Consider $\alpha = 80\%$, $\epsilon = 20\text{ns}$ for TLB search, 100ns for memory access
- **Effective Access Time (EAT)**
$$\text{EAT} = (\text{MA} + \epsilon) \alpha + (2\text{MA} + \epsilon)(1 - \alpha) = 2\text{MA} + \epsilon - \text{MA}\alpha$$
- Consider $\alpha = 80\%$, $\epsilon = 20\text{ns}$ for TLB search, 100ns for memory access
 - $\text{EAT} = 0.80 \times 120 + 0.20 \times 220 = 140\text{ns}$
- Consider slower memory but better hit ratio $\rightarrow \alpha = 98\%$, $\epsilon = 20\text{ns}$ for TLB search, 140ns for memory access
 - $\text{EAT} = 0.98 \times 160 + 0.02 \times 300 = 162.8\text{ns}$



Effective Access 7

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Muhindo Makunya**



Effective Access 7:

Whispering the Techniques of Language: An Psychological Quest through **Effective Access 7**

In a digitally-driven world wherever monitors reign great and immediate communication drowns out the subtleties of language, the profound strategies and emotional subtleties hidden within words often get unheard. However, set within the pages of **Effective Access 7** a captivating fictional treasure blinking with raw thoughts, lies a fantastic journey waiting to be undertaken. Written by a talented wordsmith, this wonderful opus encourages viewers on an introspective trip, gently unraveling the veiled truths and profound impact resonating within the very material of each word. Within the mental depths with this touching evaluation, we shall embark upon a honest exploration of the book is key styles, dissect its charming writing type, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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