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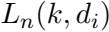


WALLS OF THE WORLD





$$U(A(p_i), d_i) = \lim_{n \rightarrow \infty} n \times V(A(p_i), d_i) \times L_n(A(p_i), d_i, t)$$











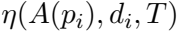
$$\begin{aligned}\Theta_A(A(p_i), d_i, T, t) &= \frac{U(A(p_i), d_i)}{\lim_{T \rightarrow T_{th}} J_e \times (T - T_{nominal})} \\ &= \frac{\lim_{n \rightarrow k_e} n \times W(A(p_i), d_i) \times L_n(A(p_i), d_i, t)}{\lim_{T \rightarrow T_{th}} J_e \times (T - T_{nominal})}\end{aligned}$$







1993



$$\eta(A(p_i), d_i, T, t) = \frac{\Theta_A(A(p_i), d_i, T, t)}{\Theta_A(A_e(p_i), d_i, T_{me}, t_e)}$$

1992







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$$\begin{aligned}
C_{\theta}(A(p_i), d_i, T, t) &= \frac{\Theta_A(A(p_i), d_i, T, t)}{P(A(p_i), d_i)} \\
&= \frac{\Theta_A(A(p_i), d_i, T, t)}{\sum_{chip, DRAM, HT, HDD} \int_{t=0}^{t=L_A} v(t) i(t) dt}
\end{aligned}$$

THE UNIVERSITY OF CHICAGO

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$$\frac{\partial^2 C_\theta(A(p_i), d_i, T, t)}{\partial T \partial t} = \frac{\partial^2 \lim_{n \rightarrow k_e} n \times W(A(p_i), d_i) \times L_n(A(p_i), d_i, t)}{\partial T \partial t \lim_{T \rightarrow T_{th}} J_e \times (T - T_{nominal})} \times \frac{1}{\sum_{chip, DRAM, HT, HDD}}$$