























Activation in ACT-R
Free Structure (eq. 4.1, Anderson & Lebiere, 1998)

$$B_i = \ln\left(\sum_{j=1}^n t_j^{-d}\right) + \beta$$
A more computationally efficient approximation (Petrov, 2006)

$$B_i \approx \ln\left(\sum_{j=1}^k t_j^{-d} + \frac{(n-k)}{(1-d)} * \frac{(t_n^{1-d} - t_k^{1-d})}{(t_n - t_k)}\right)$$
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