Analisis en détable "ordenacion fusion"

[... transparencies...]

$$T(k) = 2T(k-1) + n_0 2^k$$

$$T(k) = 2T(k-1) = n_0 2^k$$

$$A_1 = 2 \quad k=1$$

$$H(k) = n_0 2^k$$

$$A_2 = 2 \quad k=1$$

$$C(x) = C_1(x) C_2(x)$$

$$C_1(x) = x^1 - 2$$

$$C_2(x) = (x-2)^{\frac{1}{2}} \Rightarrow r_1 = 2 \quad \text{de multiplicided } 2$$

$$B = \frac{1}{2} 2^k, k 2^k = \frac{1}{2} 2^k + \frac{1}{2} 2^k + \frac{1}{2} 2^k = \frac{1}{2} 2^k + \frac{1}{2} 2$$

 $T(k) = (\lambda_1 + n_0 k) 2^k$ Deshacemos cambio $n_0 2^k = kn \Rightarrow 2^k = \frac{n}{n_0} \Rightarrow k = \log_2 \frac{n}{n_0}$ $t(n) = (\lambda_1 + n_0 \cdot \log_2 \frac{n}{n_0}) \cdot 2^{\log_2 \frac{n}{n_0}} = (\lambda_1 + n_0 \cdot \log_2 \frac{n}{n_0}) \cdot \frac{n}{n_0} \Rightarrow 0 \text{ (Algn)}$ Continua de trais

Calculemos una solución porticular: t(no) > inserción

$$t(n_0) = n_0 (n_0 - 1)/2 \Rightarrow (\lambda_1 + n_0 \log_2 \frac{n_0}{n_0}) \cdot \frac{n_0}{n_0} = \frac{n_0 (n_0 - 1)}{2}$$

$$(\lambda_1 + n_0 \cdot Q) \frac{n_0}{n_0} = \frac{n_0 (n_0 - 1)}{2}$$

$$\lambda_1 \cdot 1 = \frac{n_0 (n_0 - 1)}{2}$$

$$\frac{1}{2} \left(\frac{1}{2} \right) = \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} \left(\frac{\log_2 n - \log_2 n_0}{\log_2 n_0} \right) \frac{n}{n_0} = \left(\frac{1}{2} + \frac{1}{2} \left(\frac{\log_2 n_0}{\log_2 n_0} \right) \frac{n}{n_0} \right) = \left(\frac{1}{2} + \frac{1}{2} + \frac{\log_2 n_0}{\log_2 n_0} \right) + \frac{1}{2} \log_2 n_0 = \frac{1}{2} \left(\frac{1}{2} + \frac{\log_2 n_0}{\log_2 n_0} \right) + \frac{1}{2} \log_2 n_0 = \frac{1}{2} \left(\frac{1}{2} + \frac{\log_2 n_0}{\log_2 n_0} \right) + \frac{1}{2} \log_2 n_0 = \frac{1}{2} \left(\frac{1}{2} + \frac{\log_2 n_0}{\log_2 n_0} \right) + \frac{1}{2} \log_2 n_0 = \frac{1}{2} \left(\frac{1}{2} + \frac{\log_2 n_0}{\log_2 n_0} \right) + \frac{1}{2} \log_2 n_0 = \frac{1}{2} \left(\frac{1}{2} + \frac{\log_2 n_0}{\log_2 n_0} \right) + \frac{1}{2} \log_2 n_0 = \frac{1}{2} \left(\frac{1}{2} + \frac{\log_2 n_0}{\log_2 n_0} \right) + \frac{1}{2} \log_2 n_0 = \frac{1}{2} \left(\frac{1}{2} + \frac{\log_2 n_0}{\log_2 n_0} \right) + \frac{1}{2} \log_2 n_0 = \frac{1}{2} \left(\frac{1}{2} + \frac{\log_2 n_0}{\log_2 n_0} \right) + \frac{1}{2} \log_2 n_0 = \frac{1}{2} \left(\frac{1}{2} + \frac{\log_2 n_0}{\log_2 n_0} \right) + \frac{1}{2} \log_2 n_0 = \frac{1}{2} \log_2 n_$$

Sustituimos $\lambda_1 = \frac{N_o(N_o - 1)}{2}$

$$t(u) = n\left(\frac{n_0(n_0-1)}{2} - \log_2 n_0\right) + n\log_2 n = n\left(\frac{n_0-1}{2} - \log_2 n_0\right) + n\log_2 n$$

Hallamos el mínimo de n(x)

[transparencias__]

