

FORMULE 3° ESERCIZIO Basi di Dati

- Hash

$$\text{Record} \times \text{Block} = \left\lfloor \frac{\text{Block Size}}{\text{Psize}} \right\rfloor = \text{Pointer} \times \text{Block}$$

$$N^{\circ} \text{Block} \times \text{Block} \text{ Dir} = \frac{\lceil N^{\circ} \text{Bucket} \rceil}{\text{Record} \times \text{Block}}$$

$$\text{Block} \times \text{Bucket} = \frac{\lceil \text{Record} \times \text{Bucket} \rceil}{\text{Record} \times \text{Block}}$$

$$\text{Record} \times \text{Block} = \left\lfloor \frac{\text{Block size} - \text{Pointer size}}{\text{Record size}} \right\rfloor$$

$$\text{Record} \times \text{Bucket} = \frac{\lceil N^{\circ} \text{Record} \rceil}{N^{\circ} \text{Bucket}}$$

$$\text{Avg Time} = \frac{\lceil \text{Block} \times \text{Bucket} \rceil}{2}$$

- ISAM

$$\text{Record} \times \text{Block Index} = \left\lfloor \frac{\text{Block size}}{\text{Pointer size} + \text{key size}} \right\rfloor$$

$$\text{Record} \times \text{Block} = \frac{\lceil \text{Block size} \rceil}{\text{Record size}}$$

$$\text{Total Bck Main} = \frac{\lceil N^{\circ} \text{Record} \rceil}{\text{Record} \times \text{Block}}$$

$$\text{Total Block Index} = \frac{\lceil \text{Total Block Main} \rceil}{\text{Record} \times \text{Block Index}}$$

$$T_{\text{Accesso}} = \lg_2 (\text{Total Block Index}) + 1$$

B-Tree

SE VOGLIO DIRE AL MIN. $\frac{\lceil \text{Blk size} / 2 \rceil}{L \text{ size}}$

$$\text{Record} \times \text{Block} = \frac{\text{Blk size}}{\lfloor L \text{ size} \rfloor}$$

$$\text{Tot Block File P, mapale (Tot Blk M)} = \frac{\lceil N^{\circ} \text{Record} \rceil}{\text{Rec per Blk}}$$

$$N^{\circ} \text{Keys} = \frac{\text{Blk size} - P \text{ size}}{\lfloor P \text{ size} + K \text{ size} \rfloor} + 1 =$$

SE VOGLIO DETERMINARE L'ALBERO
AL MAX \Rightarrow MIN NO ACCESSI

$$d = \frac{\lceil (\text{Blk size} / 2) - P \text{ size} \rceil}{P \text{ size} + K \text{ size}} + 1 =$$

SE VOGLIO DETERMINARE L'ALBERO
AL MIN \Rightarrow MAX NO ACCESSI

Liv d Tot Block File P, mapale

Liv 1 $\lceil \text{Tot Block File P, mapale} \rceil = \dots$
m/d

Liv 2 $\lceil \frac{\text{Liv 1}}{m/d} \rceil = (1) \Rightarrow$ MI FIDAMO

Tot Blocc. File indice: $Liv\ 1 + Liv\ 2 + \dots$

Il costo è il n° di livelli = 3