

Simple Uniform Hashing Assumption

Given table of size m , a simple uniform hash, h , implies

$$\forall k_1, k_2 \in U \text{ where } k_1 \neq k_2, \Pr(h[k_1] = h[k_2]) = \frac{1}{m}$$

Uniform: keys are equally likely to hash to any position

Independent: key hash values are independent of other keys