Encrypted Joins with FHIPE

Experiment Results from Hash-Based Implementation (Fall 2020)

In the following plots, s represents selectivity, where

$$s = \frac{|\sigma_{(x \text{ IN } \mathbf{x})}|}{|PK|},$$

for some set \mathbf{x} .

Total Running Time vs. Scale Factor, by Selectivity

Running Time vs. Scale Factor 400 Running Time (seconds) 350 300 250 200 150 100 50 0.01 0.02 0.040.08 0.09 TPC-H Scale Factor -s = 1/100s = 1/50s = 1/25-s = 1/12.5

Time per Decryption vs. In Clause Max Size, by Selectivity

