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DBSI Project Report

1. Experiment Parameters :
   Dataset: 400 key index structure

   I. Machine Used: Architecture: x86_64

                   CPU op-mode(s): 32-bit, 64-bit

                   CPU MHz: 2400.000

                   BogoMIPS: 4788.98

                   RAM: 8GB

   Ii. Machine idle during experiment

   Iii. Compiler Used: gcc version 4.8.4 , compilation flags : -std=c99 -pedantic -msse4.2 -msse4a -O2 -o

   Iv. Timing measurement: Stored the timestamp just before the probe function is called and subtracted from the timestamp after completion.

2. Performance Difference : Time Unit microseconds

   --Number of probes : 1000000

         Hardcoded: 12670 us General: 13216us Binary: 71964us

     --Number of probes : 5000000

         Hardcoded: 67998 us General: 84768 us Binary: 350672 us

   --Number of probes : 10000000

         Hardcoded: 121071 us General: 148591us Binary: 688952us

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Timing Chart