

CAF Performance Test Suite

Performance results

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This article puts forth some of the NPB performance results from the benchmarks in this test suite. The CAF implementations tested include - OpenUH (v3.0.x) (over GASNet and ARMCI), Intel (v13.1) and G95 (v0.93). The following graphs illustrate results of some initial run of the tests on a single node with 1 image/core on a 48-core AMD Opteron Processor 6174 (at 2.27GHz)

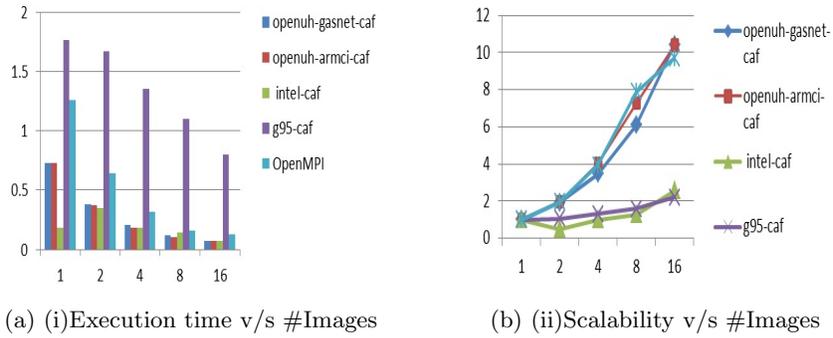


Fig. 1: EP, CLASS=S

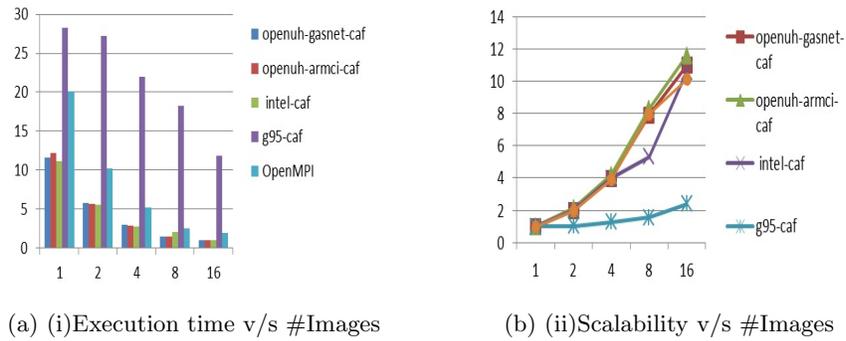
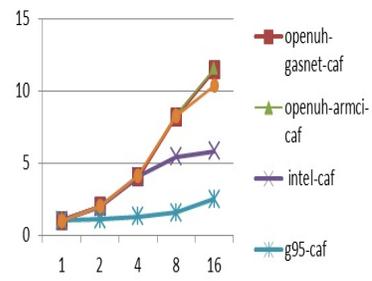
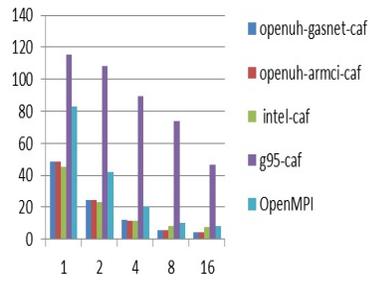


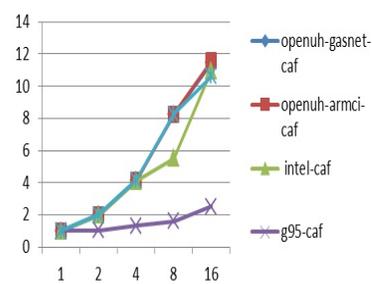
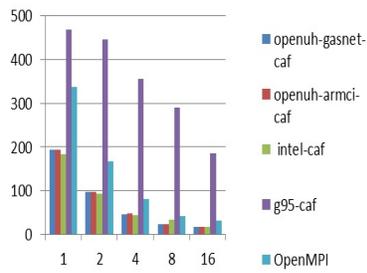
Fig. 2: EP, CLASS=A



(a) (i) Execution time v/s #Images

(b) (ii) Scalability v/s #Images

Fig. 3: EP, CLASS=B



(a) (i) Execution time v/s #Images

(b) (ii) Scalability v/s #Images

Fig. 4: EP, CLASS=C

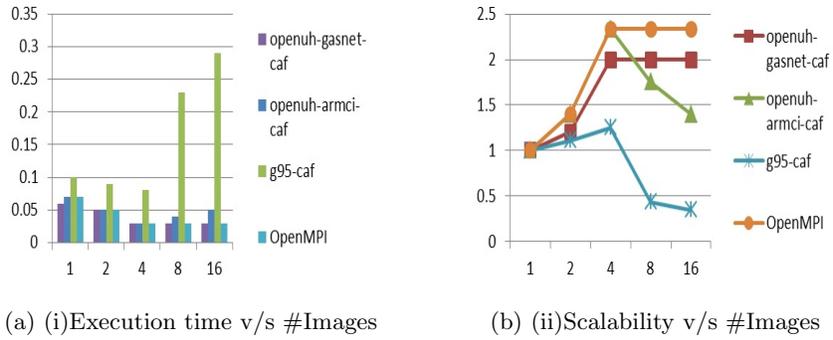


Fig. 5: CG, CLASS=S

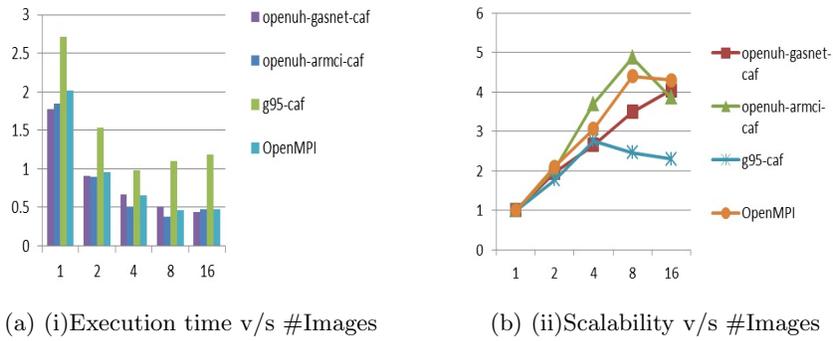


Fig. 6: CG, CLASS=A

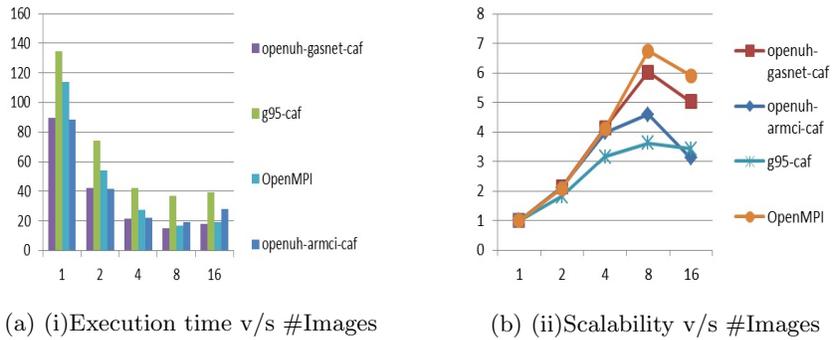


Fig. 7: CG, CLASS=B

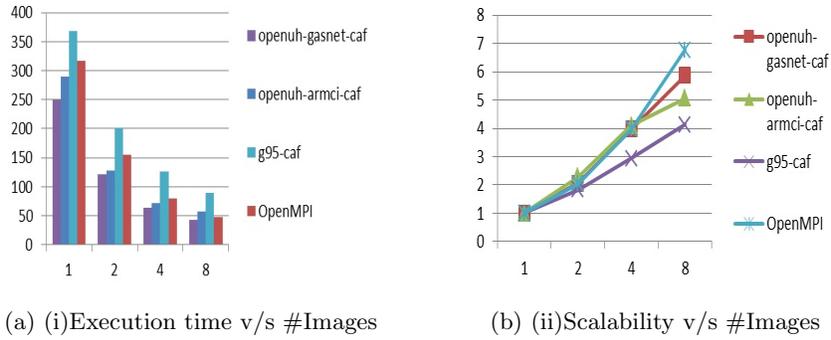


Fig. 8: CG, CLASS=C

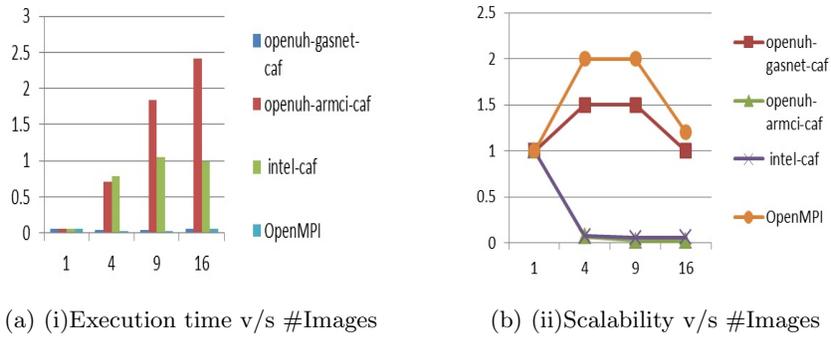


Fig. 9: SP, CLASS=S

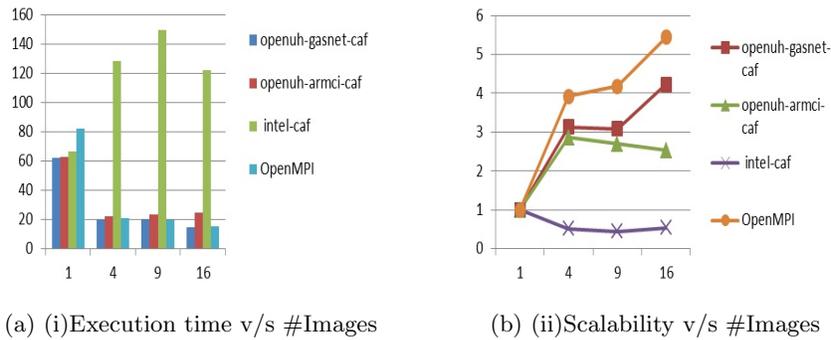


Fig. 10: SP, CLASS=A

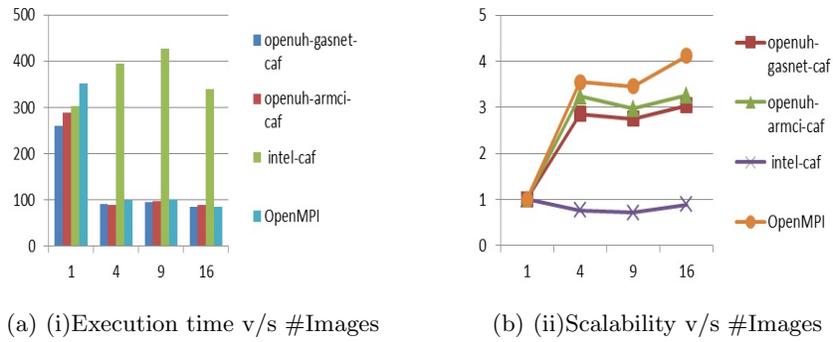


Fig. 11: SP, CLASS=B

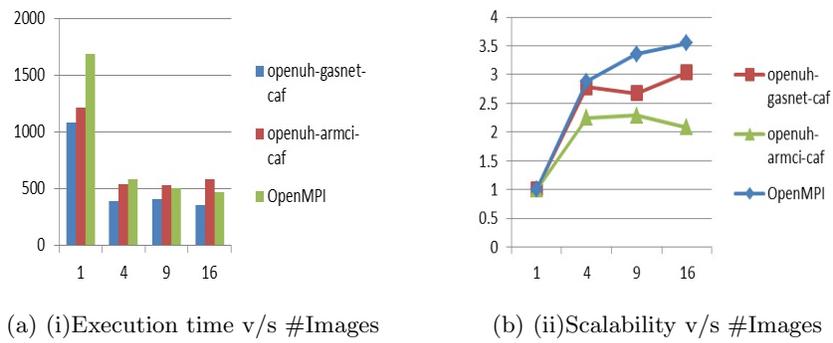


Fig. 12: SP, CLASS=C

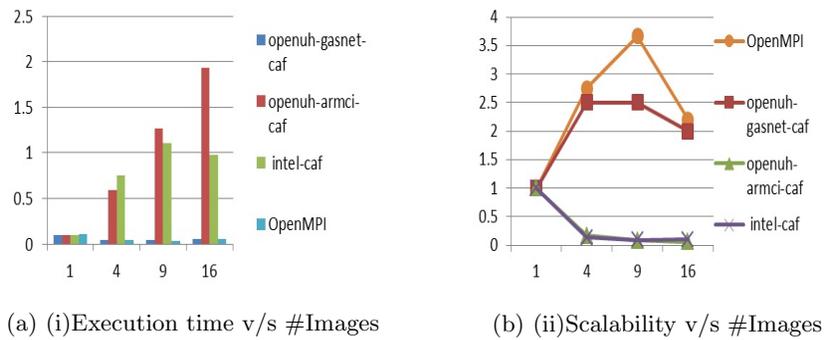
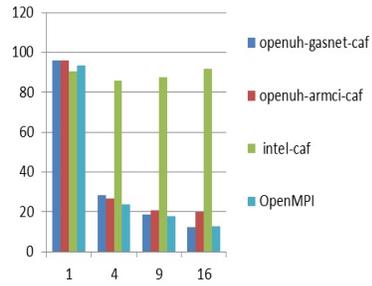
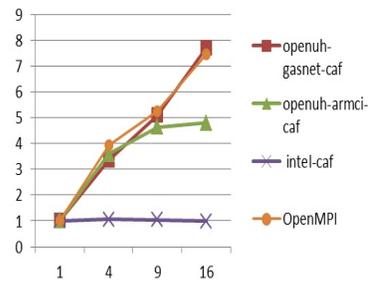


Fig. 13: BT, CLASS=S

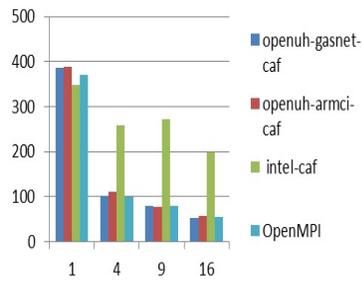


(a) (i) Execution time v/s #Images

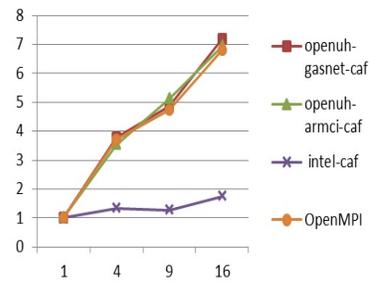


(b) (ii) Scalability v/s #Images

Fig. 14: BT, CLASS=A

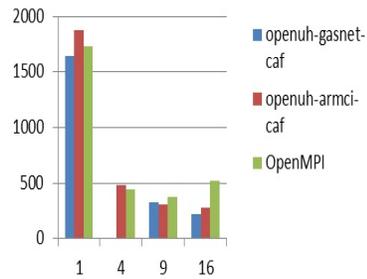


(a) (i) Execution time v/s #Images

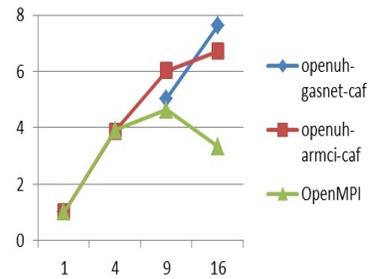


(b) (ii) Scalability v/s #Images

Fig. 15: BT, CLASS=B



(a) (i) Execution time v/s #Images



(b) (ii) Scalability v/s #Images

Fig. 16: BT, CLASS=C