ezpz

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Most significant comments: scaling experiment needed (strong scaling is most natural). Analysis of results is needed. Detailed comments below.

1 (inputs) Knapsack problem is O(nW) not O(log nW).

2 (cache) It's more common to divide slow time by fast time, so you can say 2x speedup rather than 50% improvement. (Usually 50% improvement means 1.5x speedup.) No cache optimizations attempted for memory efficient algorithms.

3 (openmp) Use parallel for directives in all 3 algorithms. Did not try to parallelize backtrack_implicit.

4 (parallel results) 5x/11x/3x speedups on 10Kx10K problem using 32 threads. No weak or strong scaling experiments.

5 (conclusions) No analysis of results. What did you expect to find? What can be improved? What else might you try?