

# Cluster data

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150 nodes 50 percent connectivity

local:

Time measurements for the sequential algorithm:

Min measurement: 921

Max measurement: 1081

Average time: 975.799927.2

Time measurements for the parallel algorithm:

Min measurement: 227

Max measurement: 626

Average time: 299.499969.2

Achieved speedups: 3.258097.2

distributed:

Time measurements for the sequential algorithm:

Min measurement: 943

Max measurement: 1107

Average time: 999.300110.2

Time measurements for the parallel algorithm:

Min measurement: 234

Max measurement: 913

Average time: 407.799988.2

Achieved speedups: 2.450466.2

300 nodes 50 percent connectivity

local:

Time measurements for the sequential algorithm:

Min measurement: 17284

Max measurement: 20091

Average time: 18700.298828.2

Time measurements for the parallel algorithm:

Min measurement: 162

Max measurement: 760

Average time: 281.000000.2

Achieved speedups: 66.549103.2

distributed:

Time measurements for the sequential algorithm:

Min measurement: 17359

Max measurement: 19585

Average time: 18716.572266.2

Time measurements for the parallel algorithm:

Min measurement: 253

Max measurement: 526

Average time: 351.571442.2

Achieved speedups: 53.236897.2

500 nodes 50 percent connectivity

local:

Time measurements for the sequential algorithm:

Min measurement: 143251

Max measurement: 164538

Average time: 157594.406250.2

Time measurements for the parallel algorithm:

Min measurement: 204

Max measurement: 1500

Average time: 517.600037.2

Achieved speedups: 304.471405.2

distributed:

Time measurements for the sequential algorithm:

Min measurement: 107320

Max measurement: 118645

Average time: 112160.007813.2

Time measurements for the parallel algorithm:

Min measurement: 453

Max measurement: 1236

Average time: 774.666687.2

Achieved speedups: 144.784866.2

300 nodes 25 percent

local:

Time measurements for the sequential algorithm:

Min measurement: 14197

Max measurement: 15873

Average time: 15239.800781.2

Time measurements for the parallel algorithm:

Min measurement: 202  
Max measurement: 618  
Average time: 305.00031.2

Achieved speedups: 49.966557.2

distributed:

Time measurements for the sequential algorithm:

Min measurement: 11194  
Max measurement: 12898  
Average time: 11853.571289.2

Time measurements for the parallel algorithm:

Min measurement: 291  
Max measurement: 785  
Average time: 446.714325.2

Achieved speedups: 26.535015.2

300 nodes 75 percent

local:

Time measurements for the sequential algorithm:

Min measurement: 17417  
Max measurement: 20477  
Average time: 19020.289063.2

Time measurements for the parallel algorithm:

Min measurement: 169  
Max measurement: 678  
Average time: 271.857147.2

Achieved speedups: 69.964279.2

distributed:

Time measurements for the sequential algorithm:

Min measurement: 14048  
Max measurement: 17751  
Average time: 16172.000977.2

Time measurements for the parallel algorithm:

Min measurement: 236  
Max measurement: 510  
Average time: 339.399994.2

Achieved speedups: 47.648796.2

1000 nodes 25 percent

local:

distributed:

Time measurements for the parallel algorithm:

Min measurement: 337

Max measurement: 1044

Average time: 502.850006.2

1350 nodes 25 percent

local:

distributed:

Time measurements for the parallel algorithm:

Min measurement: 347

Max measurement: 1484

Average time: 510.749969.2

1500 nodes 25 percent

local:

distributed:

Time measurements for the parallel algorithm:

Min measurement: 423

Max measurement: 1398

Average time: 587.349976.2

1650 nodes 25 percent

local:

distributed:

Time measurements for the parallel algorithm:

Min measurement: 380

Max measurement: 2527

Average time: 718.899963.2