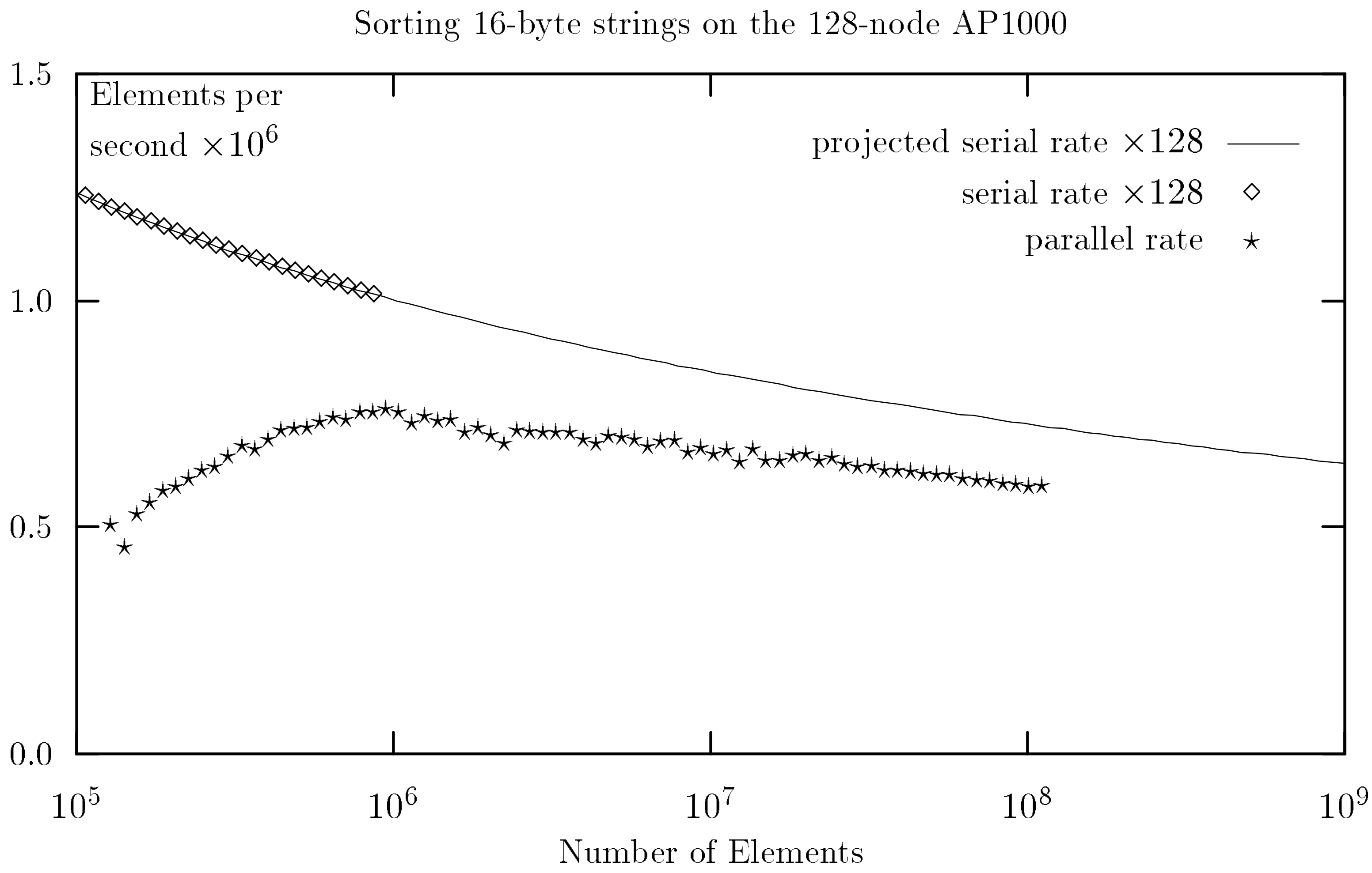
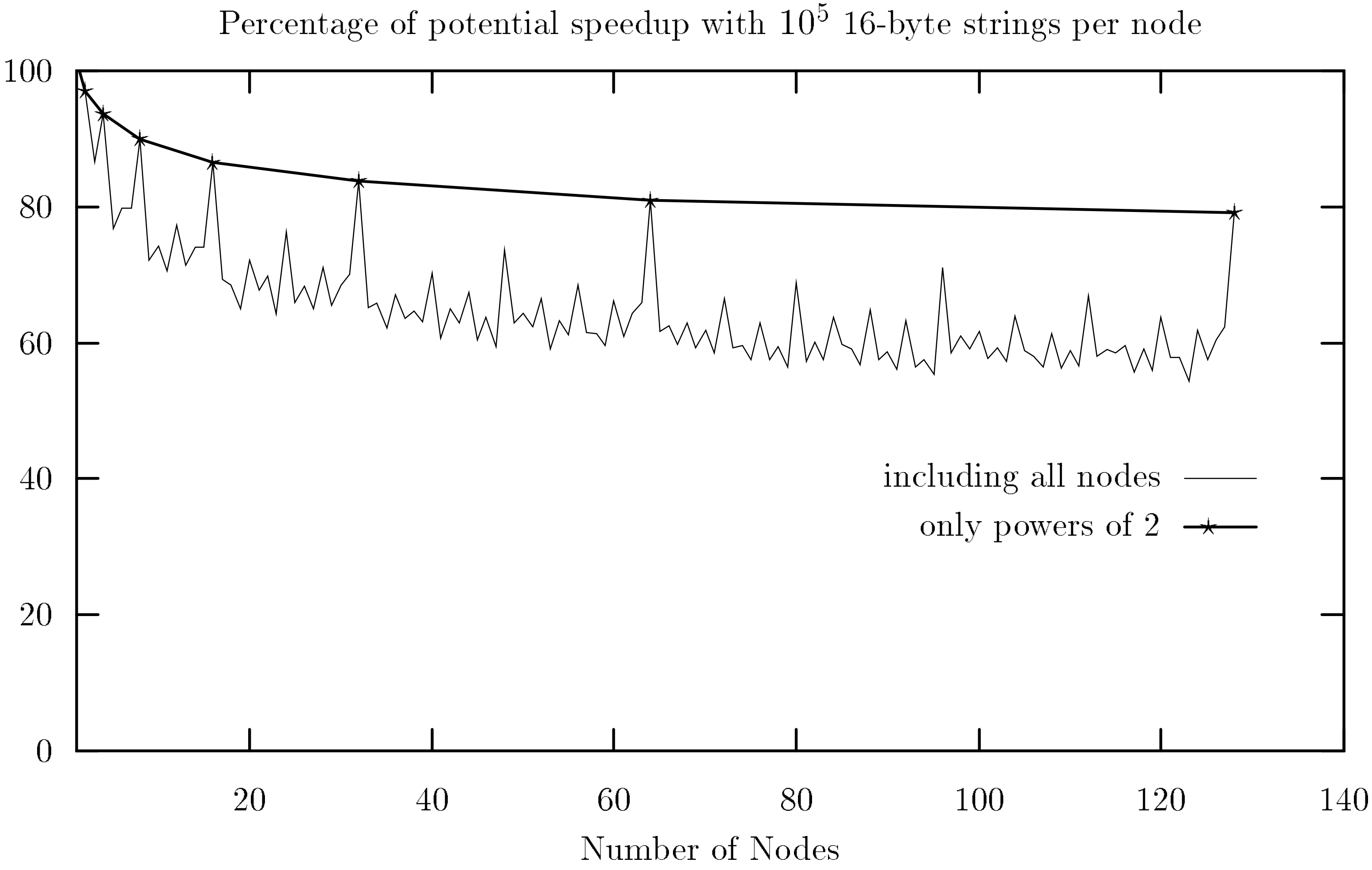
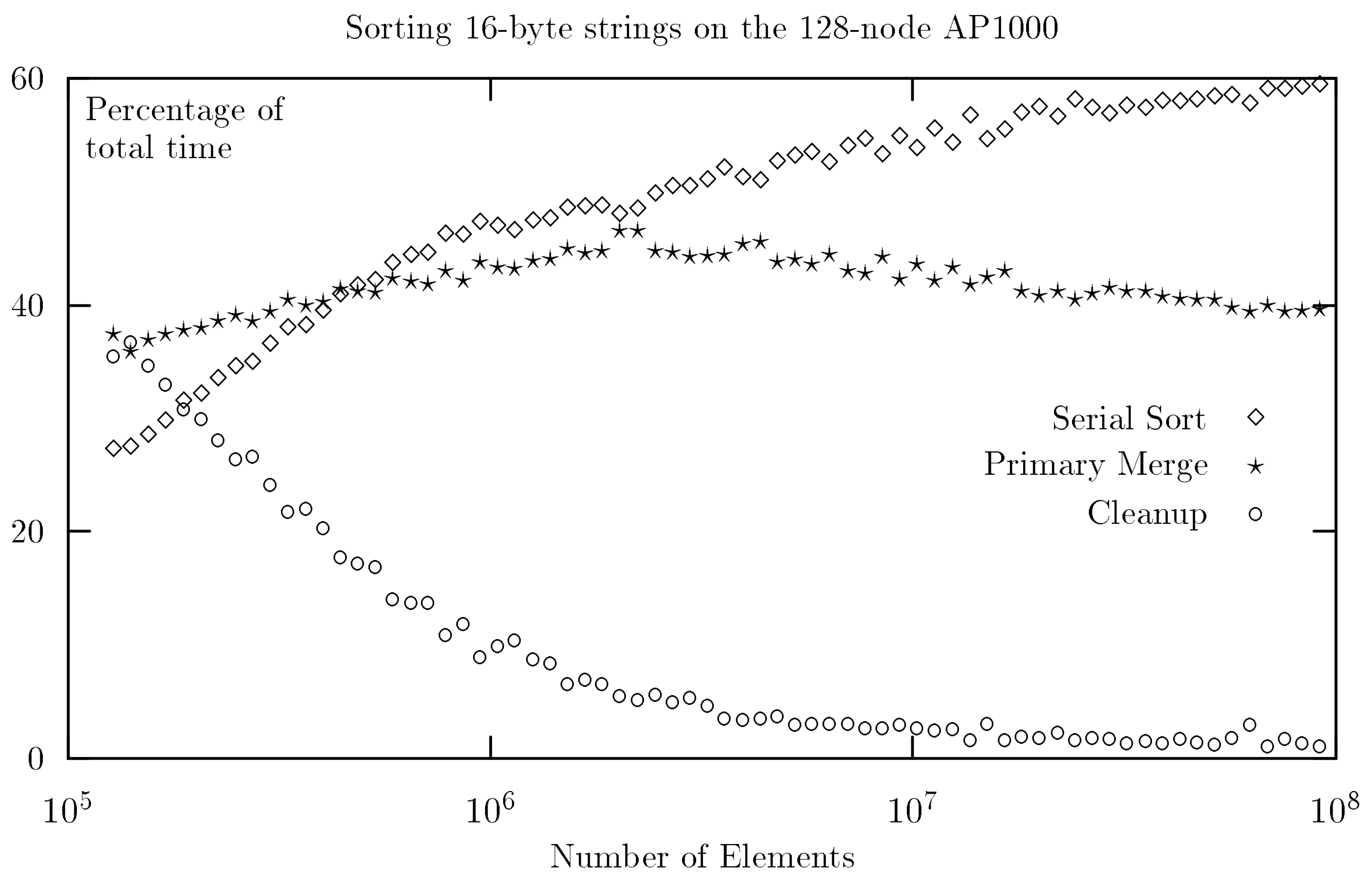


Sorting 16-byte strings on the 128-node AP1000
Elements per second $\times 10^6$
projected serial rate $\times 128$
serial rate $\times 128$
parallel rate
1.5
1.0
0.5
0.0
10^5
10^6
10^7
10^8
10^9
Number of Elements


Percentage of potential speedup with 10^5 16-byte strings per node
100
80
60
40
20
0
20
40
60
80
100
120
140
Number of Nodes
including all nodes
only powers of 2


Sorting 16-byte strings on the 128-node AP1000
Percentage of total time
60
40
20
0
10^5
10^6
10^7
10^8
Number of Elements
Serial Sort
Primary Merge
Cleanup