

Performance of Advanced Sorting Algorithms

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1 Data

Merge Sort	1024	2048	4096
Ascending	0.019	0.040	0.082
Descending	0.021	0.041	0.099
Random	0.19	0.36	0.74
Repeated	0.026	0.056	0.12

Quicksort Left Pivot	1024	2048	4096
Ascending	0.19	0.74	2.79
Descending	0.37	1.43	5.85
Random	0.17	0.34	0.69
Repeated	0.020	0.043	0.090

Quicksort Median of 3	1024	2048	4096
Ascending	0.0089	0.018	0.041
Descending	0.015	0.033	0.082
Random	0.19	0.34	0.69
Repeated	0.021	0.045	0.092

3 Way Quicksort	1024	2048	4096
Ascending	0.024	0.062	0.18
Descending	0.019	0.050	0.13
Random	0.19	0.34	0.70
Repeated	0.0094	0.022	0.048

2 Discussion