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| --- | --- | --- | --- | --- | --- | --- |
| ФИО | Панов Антон Евгеньевич | | | | | |
| Процессор | AMD A9-9425 | | | | | |
| ОС | Ubuntu 18.04.2 LTS linux 4.15.0-46-generic | | | | | |
| Среда  программирования | Eclipse IDE | | | | | |
|  | 100 |  | 10000 |  | 1000000 |  |
| Название | Время (us) | Количество  сравнений | Время (us) | Количество  сравнений | Время (us) | Количество  сравнений |
| Quick sort | 8 | 256 | 2005 | 53735 | 111119 | 8226778 |
| Shell sort | 8 | 130 | 3204 | 51170 | 319064 | 9137475 |
| Merge sort | 20 | 871 | 2448 | 153615 | 241359 | 21951423 |
| Heap sort | 23 | 1845 | 2541 | 380442 | 405712 | 45139074 |
| Bubble sort | 36 | 4950 | 213712 | 49995000 | 99999999 | 99999999 |
| Shake sort | 19 | 2100 | 114946 | 21873750 | 1918110511 | 304687312500 |
|  |  |  |  |  |  |  |
| Сортировка 1000000 элементов, время | | | | | | |
|  | Quick sort | Shell sort | Merge sort | Heap sort | Bubble sort | Shake sort |
| Quick sort | 1 | 2.8713722 | 2.1720772 | 3.6511492 | 899.9360962 | 17261.7690132 |
| Shell sort | 0.3482662 | 1 | 0.7564602 | 1.2715692 | 313.4167412 | 6011.6795092 |
| Merge sort | 0.4603892 | 1.3219482 | 1 | 1.6809482 | 414.3205722 | 7947.1265252 |
| Heap sort | 0.2738862 | 0.7864302 | 0.5949022 | 1 | 246.4802592 | 4727.7638102 |
| Bubble sort | 0.0011112 | 0.0031912 | 0.0024142 | 0.0040572 | 1 | 19.1811052 |
| Shake sort | 0.0000582 | 0.0001662 | 0.0001262 | 0.0002122 | 0.0521352 | 1 |
|  |  |  |  |  |  |  |
| Сортировка 1000000 элементов, количество сравнений | | | | | | |
|  | Quick sort | Shell sort | Merge sort | Heap sort | Bubble sort | Shake sort |
| Quick sort | 1 | 1.1106992 | 2.6682892 | 5.4868472 | 12.1554272 | 37036.0440622 |
| Shell sort | 0.9003342 | 1 | 2.4023512 | 4.9399942 | 10.9439422 | 33344.8039532 |
| Merge sort | 0.3747722 | 0.4162592 | 1 | 2.0563172 | 4.5555132 | 13880.0711232 |
| Heap sort | 0.1822542 | 0.2024292 | 0.4863062 | 1 | 2.2153762 | 6749.9681652 |
| Bubble sort | 0.0822682 | 0.0913752 | 0.2195142 | 0.4513912 | 1 | 3046.8731552 |
| Shake sort | 0.0000272 | 0.0000302 | 0.0000722 | 0.0001482 | 0.0003282 | 1 |