Configuration of the System

System	Ubuntu 16.04 LTS
memory	3.7 GiB
Procssor	Intel® Core™ i3-6006U CPU @ 2.00GHz × 4
Graphics	Intel® HD Graphics 520 (Skylake GT2)
OS type	64-bit
Disk	479.3 GB

SortMerge

Memory blocks (M)	Execution Time
50	23.971s
60	21.546s
70	20.689s
80	19.273s
90	18.508s
100	17.243s
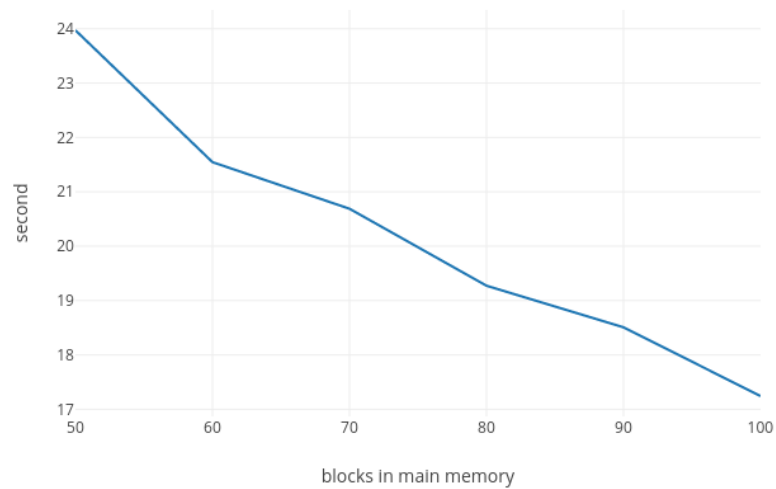
HashJoin

Memory blocks (M)	Execution Time
50	138.894s
60	117.860s
70	101.785s
80	91.248s
90	77.859s
100	71.922s