Supplementary File 5

Performance gain per assigned core

Read Length = 100 bp

DATA RANGE

File size (number of reads): 10^6, 2×10^6, 3×10^6, 4×10^6, 5×10^6, 10^7, 1.5×10^7, 2×10^7, 3×10^7, 5×10^7, 10^8

Segment size (number of reads): 10^5, 2×10^5, 5×10^5, 10^6, 2×10^6, 5×10^6, 10^7, 3×10^7, 5×10^7, 10^8

Number of cores: 10, 16, 20, 30, 40, 50, 60, 70, 80, 90, 100, 120, 140

Performance Gain due to core assignment for a FASTQ file with 10^6 reads

Performance Gain due to core assignment for a FASTQ file with 2×10^6 reads

Performance Gain due to core assignment for a FASTQ file with 3×10^6 reads

Performance Gain due to core assignment for a FASTQ file with 4 X 10⁶ reads

Performance Gain due to core assignment for a FASTQ file with 5 X 10⁶ reads

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Performance Gain due to core assignment for a FASTQ file with 10^7 reads

Performance Gain due to core assignment for a FASTQ file with 1.5×10^7 reads

Performance Gain due to core assignment for a FASTQ file with 2×10^7 reads

Performance Gain due to core assignment for a FASTQ file with 3×10^7 reads

Performance Gain due to core assignment for a FASTQ file with 5×10^7 reads

Performance Gain due to core assignment for a FASTQ file with 10^8 reads