

OpenBLAS

MKL

MKL Numpy

MKL_NUM_THREADS

Numpy

CPU

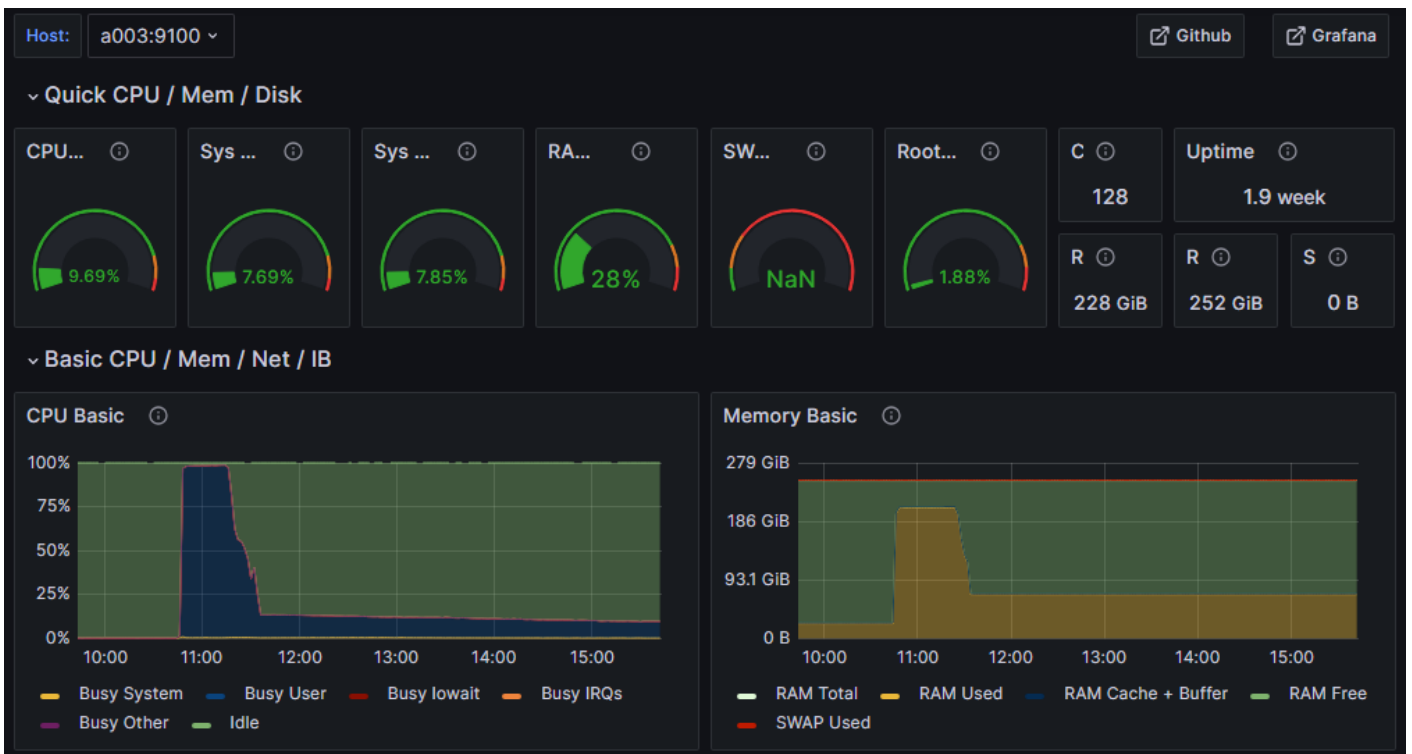
MKL

OpenBLAS

AMD

MKL_DEBUG_CPU_TYPE=5

MKL



eScience

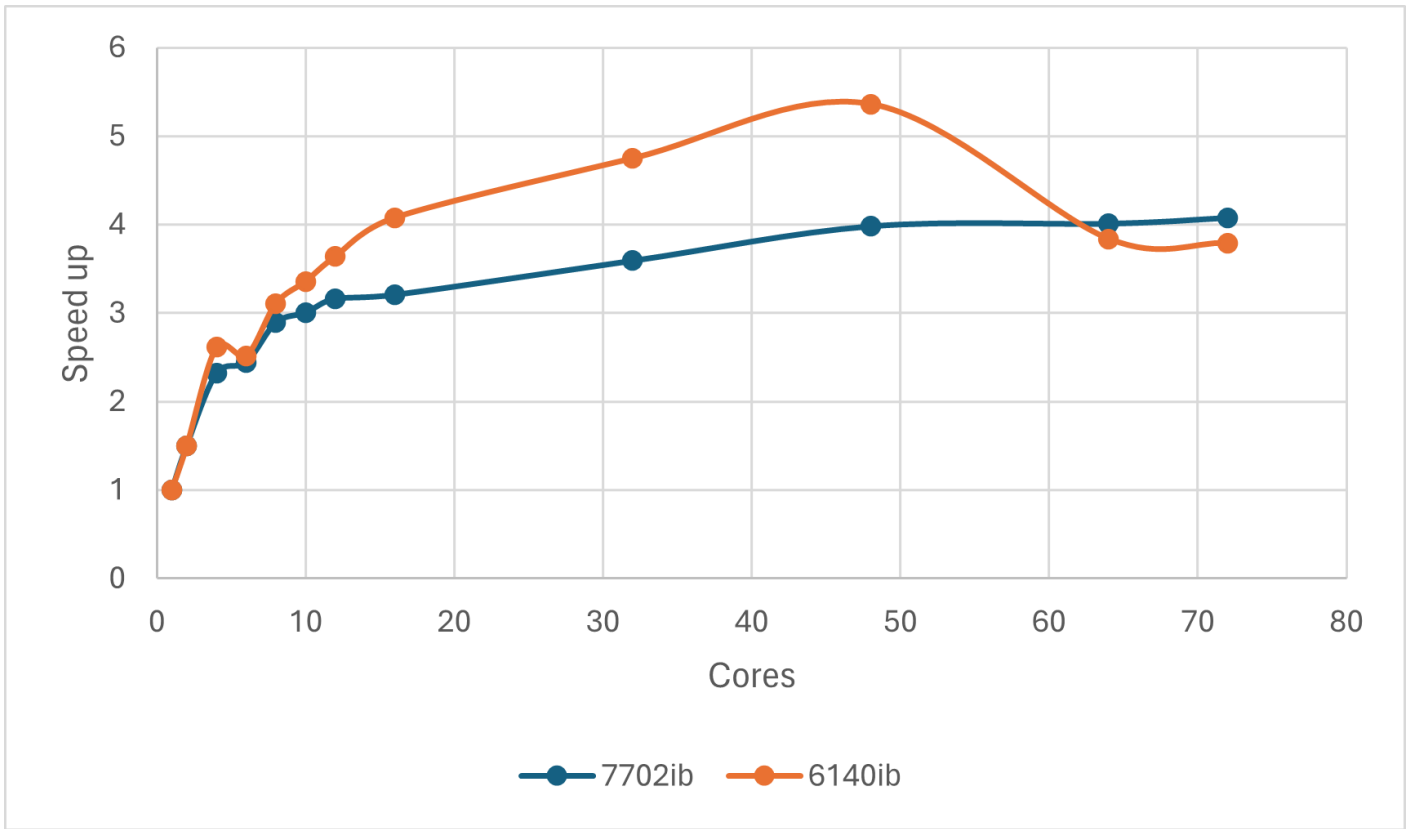
40

16

40

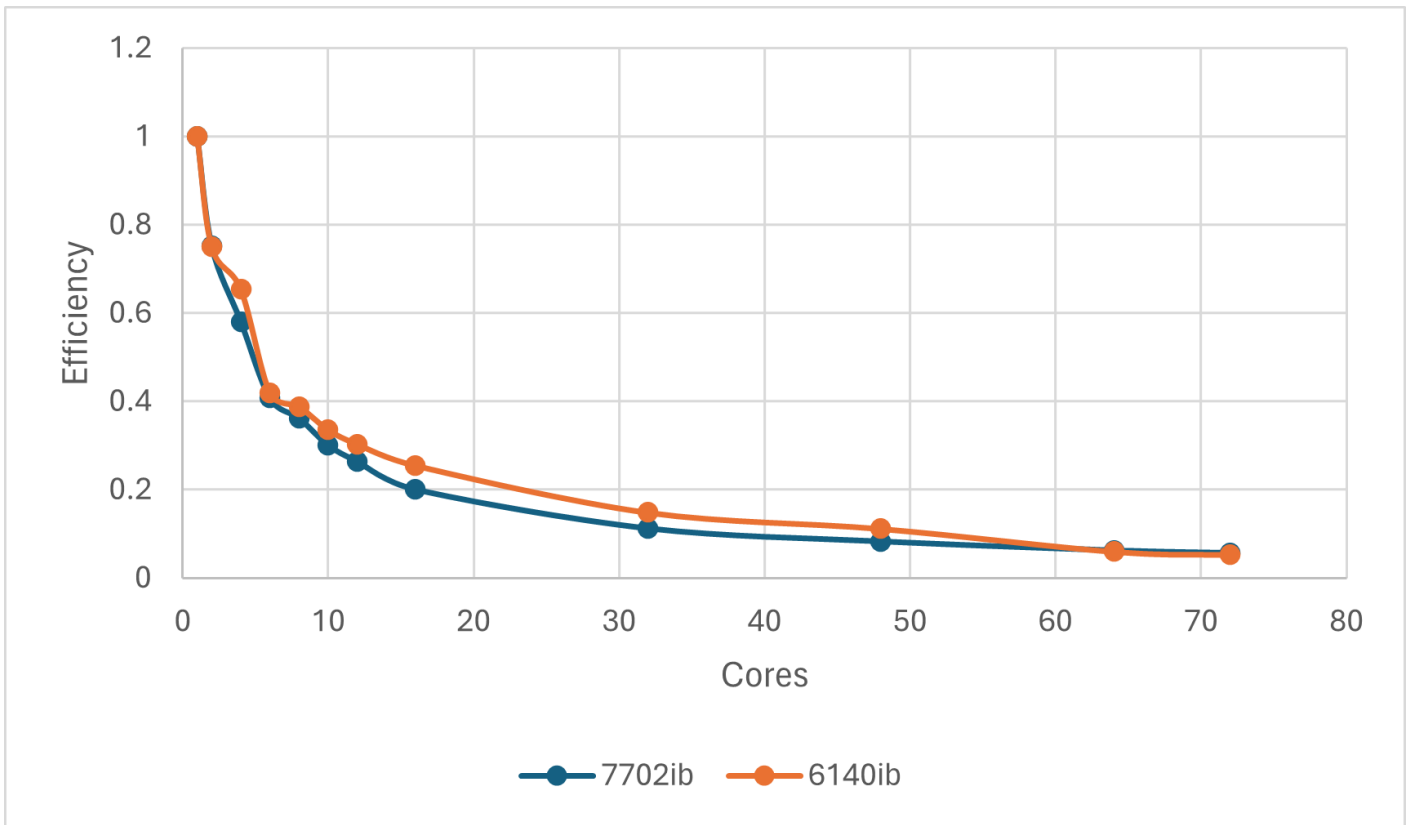
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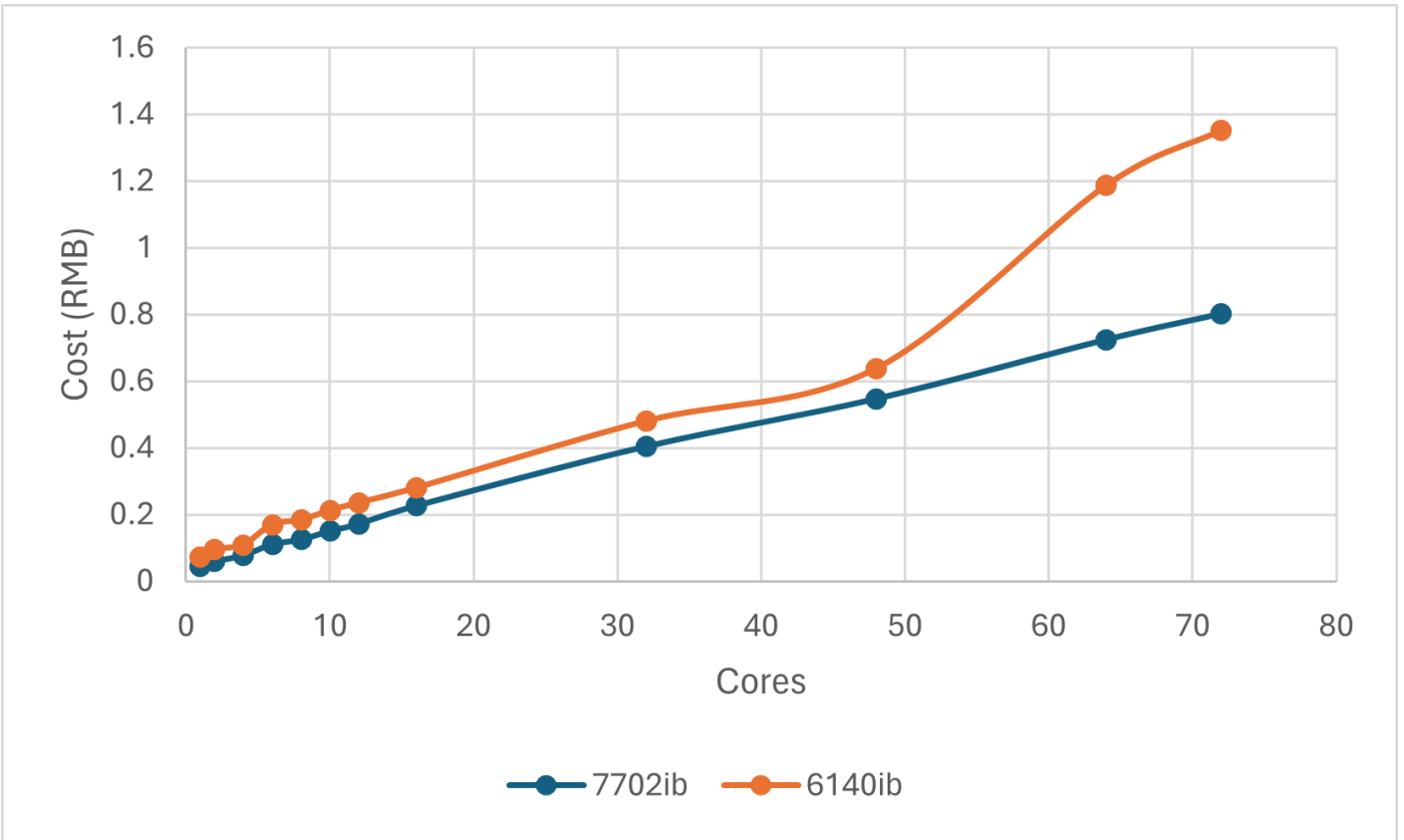
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OpenBLAS Numpy

4 5

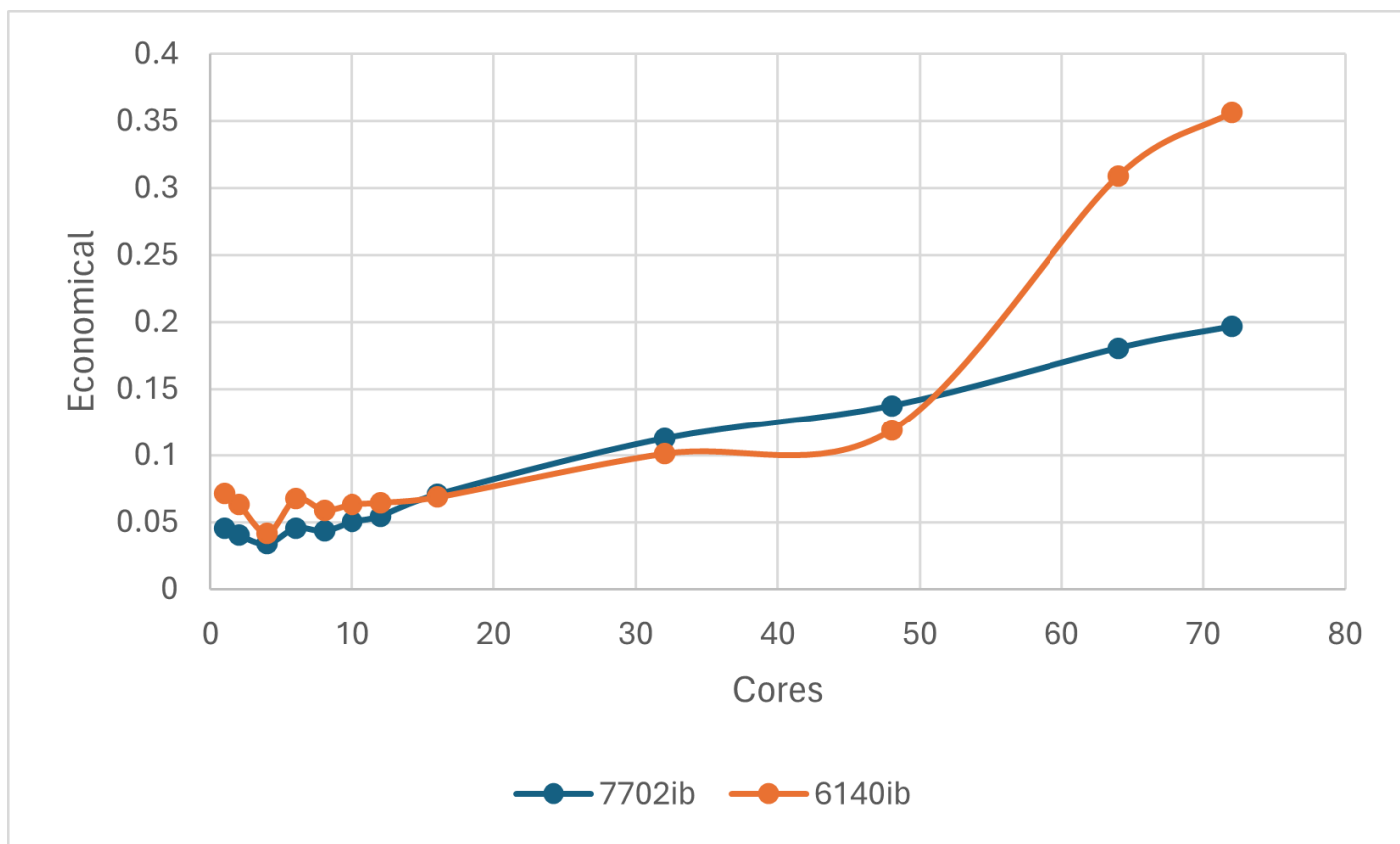




$$T_{total} = N_{task} \times \left(\frac{N_{max}}{N_{cores}} \right)^{-1} \times T_p(N_{cores})$$

$$= \frac{N_{task}}{N_{max}} \times N_{cores} \times T_p(N_{cores})$$

N_task N_max N_cores T_p
 N_cores T_p
 T_total N_max



Numpy OpenBLAS 4 4

