

Overview of whole program execution metrics				
Number of processors	1	4	8	16
Elapsed time (sec)	6.89	3.10	1.74	0.95
Speedup	1.00	2.22	3.95	7.22
Efficiency	1.00	0.56	0.49	0.45

Table 1: Analysis done on Sun Dec 25 05:42:26 PM CET 2022, par2107

Overview of the Efficiency metrics in parallel fraction, $\phi=99.58\%$				
Number of processors	1	4	8	16
Global efficiency	99.96%	55.82%	50.17%	46.76%
Parallelization strategy efficiency	99.96%	78.47%	99.71%	99.45%
Load balancing	100.00%	78.57%	99.99%	99.94%
In execution efficiency	99.96%	99.88%	99.73%	99.51%
Scalability for computation tasks	100.00%	71.14%	50.31%	47.01%
IPC scalability	100.00%	91.92%	91.76%	92.35%
Instruction scalability	100.00%	78.45%	59.09%	56.69%
Frequency scalability	100.00%	98.65%	92.78%	89.79%

Table 2: Analysis done on Sun Dec 25 05:42:26 PM CET 2022, par2107

Statistics about explicit tasks in parallel fraction				
Number of processors	1	4	8	16
Number of implicit tasks per thread (average us)	1000.0	1000.0	1000.0	1000.0
Useful duration for implicit tasks (average us)	6857.92	2410.15	1703.95	911.72
Load balancing for implicit tasks	1.0	0.79	1.0	1.0
Time in synchronization implicit tasks (average us)	0	0	0	0
Time in fork/join implicit tasks (average us)	2.92	1322.49	5.0	5.33

Table 3: Analysis done on Sun Dec 25 05:42:26 PM CET 2022, par2107