

Overview of whole program execution metrics				
Number of processors	1	4	8	16
Elapsed time (sec)	2.89	1.23	0.83	0.70
Speedup	1.00	2.34	3.49	4.14
Efficiency	1.00	0.59	0.44	0.26

Table 1: Analysis done on Mon Dec 26 10:19:53 AM CET 2022, par2107

Overview of the Efficiency metrics in parallel fraction, $\phi=98.69\%$				
Number of processors	1	4	8	16
Global efficiency	98.95%	58.79%	44.51%	26.70%
Parallelization strategy efficiency	98.95%	73.17%	63.29%	54.13%
Load balancing	100.00%	93.39%	88.86%	88.16%
In execution efficiency	98.95%	78.35%	71.22%	61.40%
Scalability for computation tasks	100.00%	80.35%	70.34%	49.32%
IPC scalability	100.00%	82.13%	75.92%	55.07%
Instruction scalability	100.00%	99.83%	99.62%	99.19%
Frequency scalability	100.00%	97.99%	93.00%	90.28%

Table 2: Analysis done on Mon Dec 26 10:19:53 AM CET 2022, par2107

Statistics about explicit tasks in parallel fraction				
Number of processors	1	4	8	16
Number of explicit tasks executed (total)	2000.0	8000.0	16000.0	32000.0
LB (number of explicit tasks executed)	1.0	1.0	1.0	1.0
LB (time executing explicit tasks)	1.0	0.93	0.89	0.88
Time per explicit task (average us)	1405.99	435.89	247.61	174.97
Overhead per explicit task (synch %)	0.25	35.08	54.9	80.49

Table 3: Analysis done on Mon Dec 26 10:19:53 AM CET 2022, par2107