

Execution Times for 2D Laplace Lab.

May 2024

1 Performance at Wilma

Nº Processes (rows)	Strong scalability	
	T(s) Wilma	Speedup Wilma
1	107.5	1
2	55.808	1.92
4	28.711	3.74
8	16.779	6.41

Table 1: Strong Scalability test for a problem of size 4096x4096 and 1000 iterations.

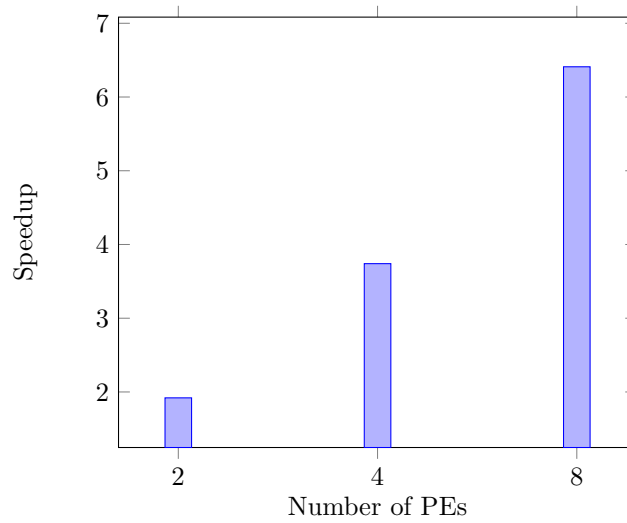


Figure 1: Strong Scalability Plot - Speedup

Problem Size (rows)	Weak Scalability		
	N ^o Processes	Time(s)	Efficiency Wilma
4096	1	107.5	1
8192	2	110.83	0.97
16384	4	111.40	0.964
32768	8	112.606	0.954

Table 2: Weak Scalability. Time (s) and Efficiency (E).

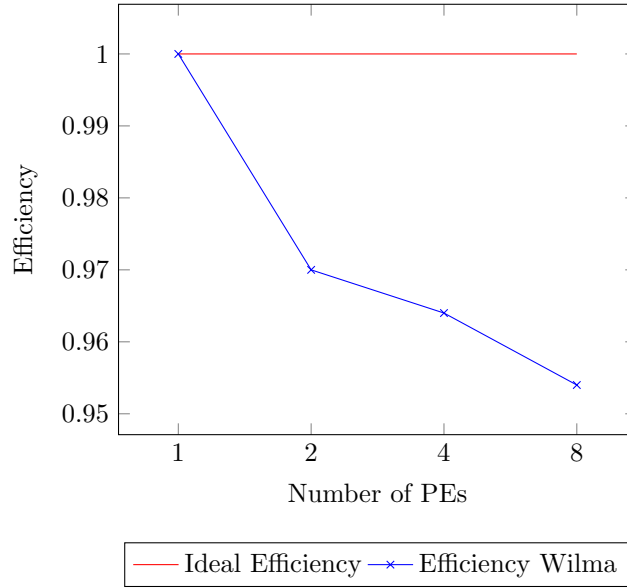


Figure 2: Weak Scalability Plot - Efficiency