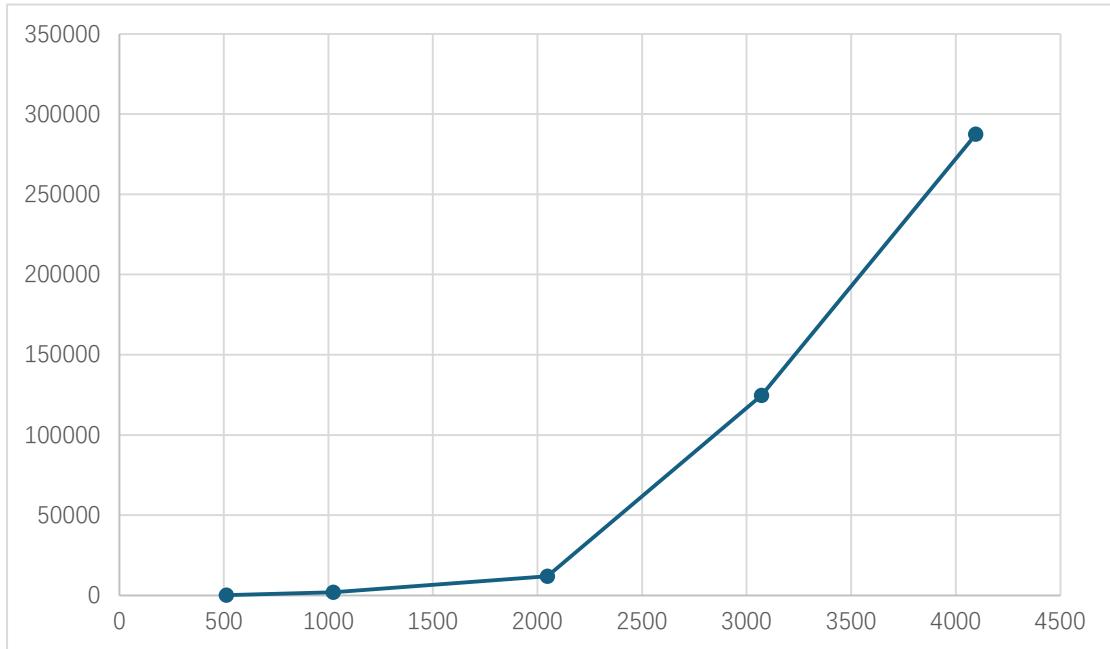


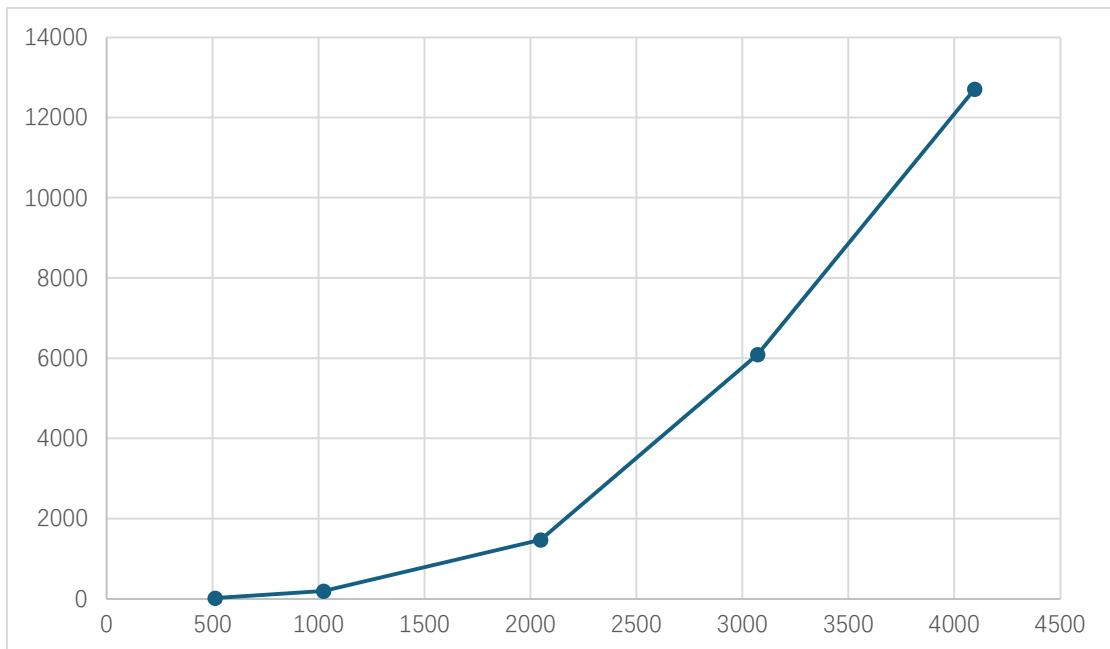
Sequential data for Matrices Multiplication as benchmark.

Nodes	1 <sup>st</sup> (ms)	2 <sup>nd</sup> (ms)	3 <sup>rd</sup> (ms)	4 <sup>th</sup> (ms)	5 <sup>th</sup> (ms)	Average (ms)	GFLOPS
512	192	176	170	170	166	175	1.54
1024	1852	1938	1855	1859	1816	1864	1.15
2048	11743	11615	11577	11775	13129	11968	1.44
3072	118769	126249	126737	126368	125384	124702	0.46
4096	290978	298139	294487	273736	280276	287523	0.48



Data of algorithm using Aparpi for matrices multiplication.

N	1 <sup>st</sup> (ms)	2 <sup>nd</sup> (ms)	3rd(ms)	4 <sup>th</sup> (ms)	5 <sup>th</sup> (ms)	Average (ms)	GFLOPS
512	22	22	22	23	24	23	11.77
1024	181	192	188	186	189	197	10.89
2048	1453	1460	1497	1499	1461	1474	11.66
3072	6319	5911	6005	6200	6044	6096	9,51
4096	12683	12670	12801	12824	12575	12710	10.81

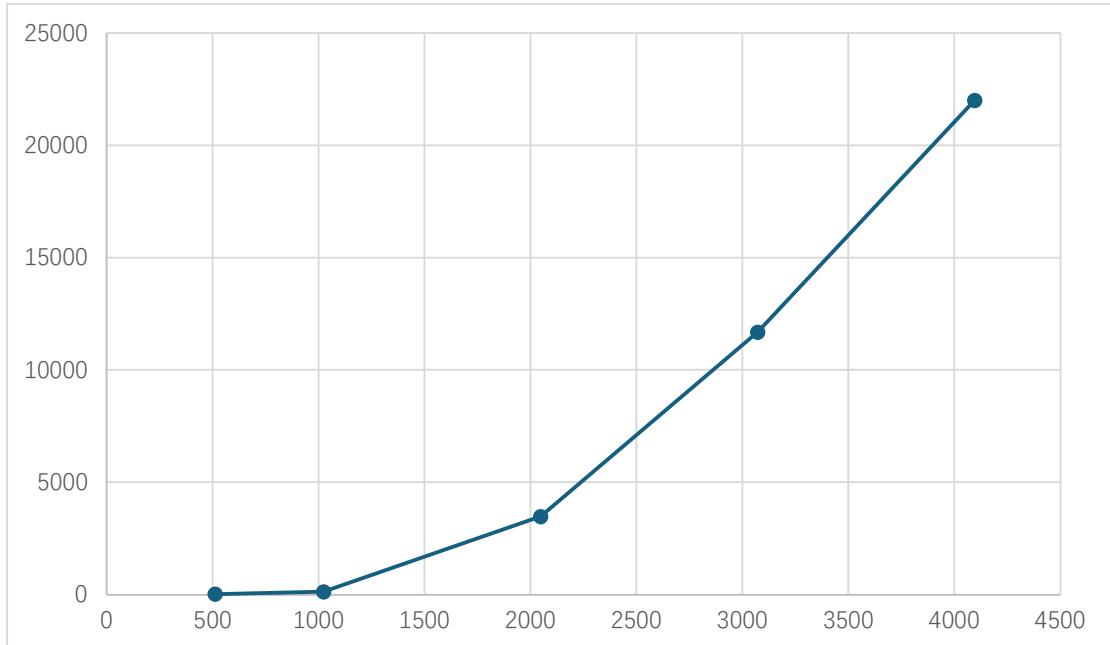


<b>N</b>	Parallel Speedup
<b>512</b>	7.66
<b>1024</b>	9.45
<b>2048</b>	8.12
<b>3072</b>	20.46
<b>4096</b>	22.62

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Sequential data for LU Decomposition as benchmark.

<b>Nodes</b>	<b>1<sup>st</sup> (ms)</b>	<b>2<sup>nd</sup> (ms)</b>	<b>3<sup>rd</sup> (ms)</b>	<b>4<sup>th</sup> (ms)</b>	<b>5<sup>th</sup> (ms)</b>	<b>Average (ms)</b>	<b>GFLOPS</b>
<b>512</b>	21	28	22	24	28	25	10.86
<b>1024</b>	130	126	128	122	108	123	17.50
<b>2048</b>	3790	3410	3150	3512	3507	3474	4.95
<b>3072</b>	11455	12425	11623	11429	11494	11685	4.96
<b>4096</b>	22456	21680	21188	21895	22816	22007	6.25



Data of algorithm using Aparpi for LU Decomposition.

<b>N</b>	<b>1<sup>st</sup>(ms)</b>	<b>2<sup>nd</sup>(ms)</b>	<b>3rd(ms)</b>	<b>4<sup>th</sup>(ms)</b>	<b>5<sup>th</sup>(ms)</b>	<b>Average(ms)</b>	<b>GFLOPS</b>
<b>512</b>	23	25	24	24	25	23	11.51
<b>1024</b>	184	184	186	183	183	184	11.69
<b>2048</b>	1406	1400	1405	1401	1410	1404	12.23
<b>3072</b>	5880	5903	5890	5903	5899	5895	9.84
<b>4096</b>	12074	12031	12038	12029	12061	12047	11.41

