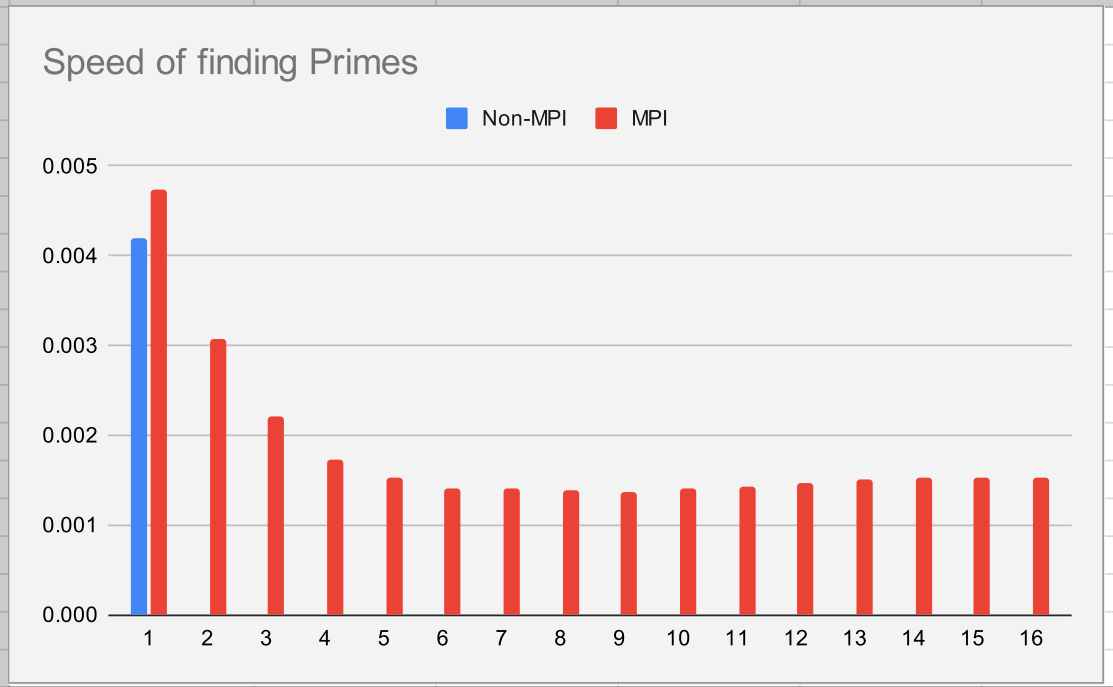
Version	Speed*	Result	Number of Processes
Non MPI	0.0042	9593	N/A
MPI	0.0047414	9593	1
MPI	0.003081	9593	2
MPI	0.0022195	9593	3
MPI	0.0017276	9593	4
MPI	0.001535	9593	5
MPI	0.0014135	9593	6
MPI	0.0014092	9593	7
MPI	0.00139	9593	8
MPI	0.001364	9593	9
MPI	0.0014085	9593	10
MPI	0.0014296	9593	11
MPI	0.0014722	9593	12
MPI	0.0015143	9593	13
MPI	0.0015367	9593	14
MPI	0.0015293	9593	15
MPI	0.0015217	9593	16

Conclusions

Procedural is faster than 1 process MPI, but from 2 processes onwards MPI is considerably faster

9 processes, for this specific test, had the fastest speed, but by a very small margin. Possibly in a larger routine more processes would be needed.

Registered speeds	*These are all averaged out of 10 runs of the same process				
Number of Processes					
1	2	3	4	5	6
0.004627	0.002951	0.002093	0.001636	0.001376	0.001214
0.004647	0.002958	0.00213	0.001644	0.001389	0.001269
0.004657	0.002986	0.002148	0.001658	0.001396	0.001295
0.004664	0.002997	0.002152	0.001694	0.001458	0.00131
0.004666	0.002997	0.00217	0.001702	0.001463	0.001338
0.004685	0.003	0.002214	0.001721	0.001528	0.00145
0.004714	0.003023	0.002274	0.001769	0.001529	0.001452
0.00479	0.003029	0.002312	0.001792	0.001589	0.001562
0.00498	0.003312	0.002336	0.001817	0.001773	0.001594
0.004984	0.003557	0.002366	0.001843	0.001849	0.001651
0.0047414	0.003081	0.0022195	0.0017276	0.001535	0.0014135



7	8	9	10	11	12	13	14	15	16
0.001309	0.001251	0.001316	0.001289	0.001344	0.001358	0.001324	0.001189	0.00128	0.00121
0.001342	0.00129	0.001317	0.001316	0.001366	0.001364	0.001394	0.001483	0.001288	0.00125
0.001361	0.001312	0.001355	0.001354	0.001371	0.001382	0.00146	0.0015	0.001369	0.001299
0.001366	0.001335	0.001358	0.001383	0.001386	0.001458	0.001501	0.001522	0.001468	0.001359
0.001373	0.00142	0.001365	0.001433	0.001393	0.001497	0.00151	0.001527	0.00161	0.001359
0.001379	0.00145	0.00137	0.001438	0.001411	0.001511	0.001521	0.001605	0.001642	0.001695
0.001394	0.001452	0.001373	0.001446	0.001474	0.001524	0.001522	0.00161	0.001643	0.001722
0.001484	0.001461	0.001381	0.001466	0.00148	0.001526	0.001523	0.001614	0.001644	0.001759
0.00152	0.001462	0.001391	0.001473	0.001515	0.001527	0.001609	0.001643	0.001653	0.001782
0.001564	0.001467	0.001414	0.001487	0.001556	0.001575	0.001779	0.001674	0.001696	0.001782
0.0014092	0.00139	0.001364	0.0014085	0.0014296	0.0014722	0.0015143	0.0015367	0.0015293	0.0015217