

Hardware used for test: "roa" dual xeon e5-2697v2 (each 12 core & x2 HT, AVX Nominally 2.7GHz, observed 2.4
128 GiB ECC ram, NUMA; 300 GB HD

Software/OS Mlucas v20.1.1 on Canonical's version of Ubuntu 18.04 for WSL1 on Windows 10 Pro

Test exponent 1000000007 Computation PRP with GEC

FFT selected by benchmarking 960 32 32 32 3.339 years for a single primality test

No hyperthreading specified: 0:x:2

single CPU package use expected

cores spec	logical core count	observed msec/iter	Logical cores * msec / iter	notes
0:7:2	4	460.9	1843.6	
0:11:2	6	401.5	2409.0	
0:15:2	8	221.5	1772.0	
0:23:2	12	208.6	2503.2	

dual CPU package use expected

cores spec	logical core count	observed msec/iter	Logical cores * msec / iter	notes
0:31:2	16	123	1968.0	
0:47:2	24	114	2736.0	

Hyperthreading specified: 0:x:1

single CPU package use expected

cores spec	logical core count	observed msec/iter	Logical cores * msec / iter	notes
0:3:1	4	452.4	1809.6	
0:5:1	6	381.2	2287.2	
0:7:1	8	222.3	1778.4	
0:11:1	12	207.2	2486.4	
0:15:1	16	130.7	2091.2	
0:23:1	24	114.1	2738.4	

dual CPU package use expected

cores spec	logical core count	observed msec/iter	Logical cores * msec / iter	notes
0:29:1	30	112	3360.0	
0:31:1	32	105.3	3369.6	minimum time; power of two and a good fit to the radices of the fft
0:35:1	36	107.4	3866.4	more logical cores made it slower
0:39:1	40	107.3	4292.0	
0:47:1	48	108.4	5203.2	more logical cores made it slower

Mlucas parallelism at 1G PRP on Ubuntu atop WSL

