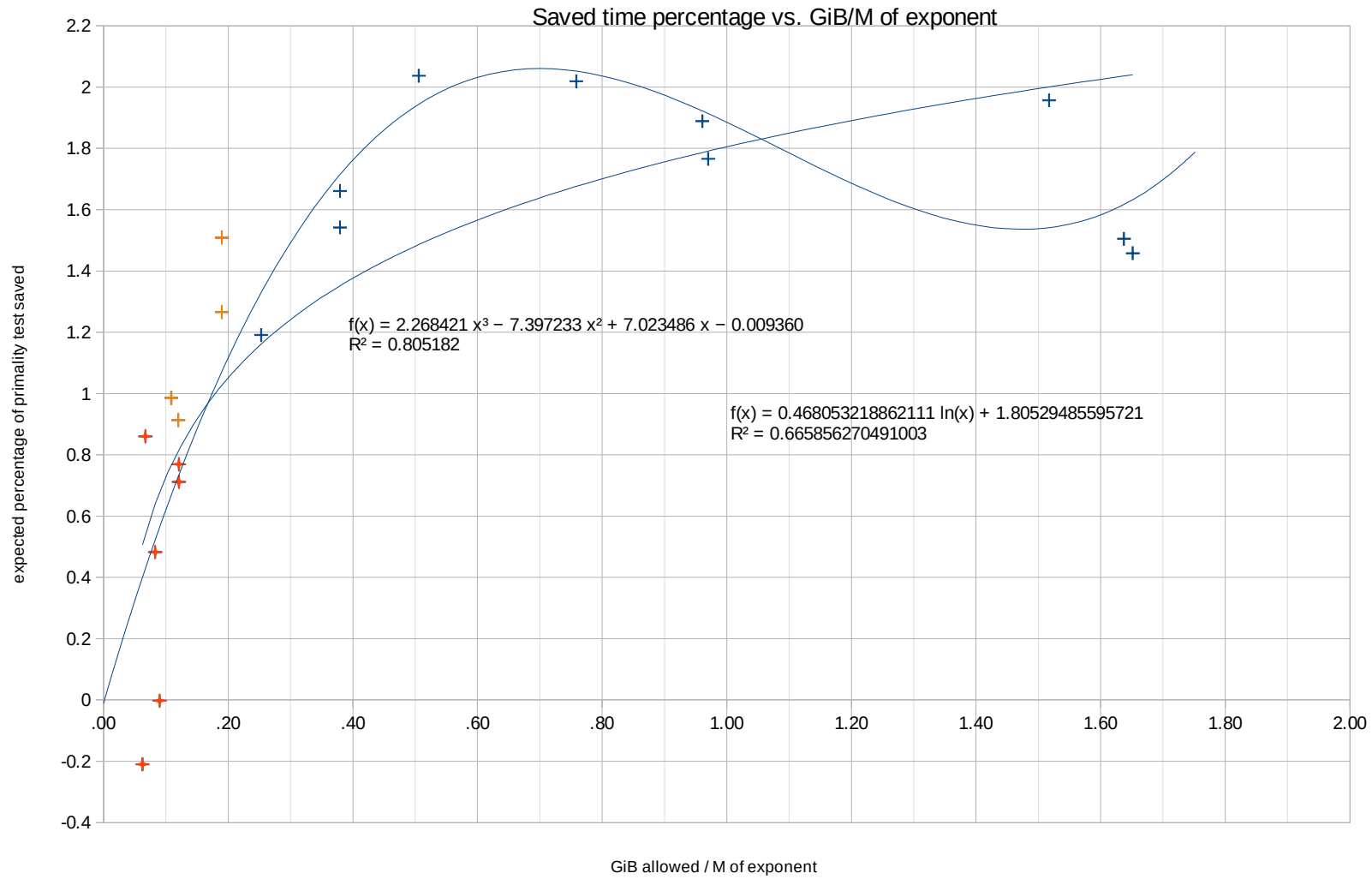


Prime95 V30.8b15 (or b14) stage 2 memory versus % run time savings for P-1 retries on poorly P-1 factored exponents (prior factoring bounds, and fft length staircase, at least, are confounding variables)

exponent	GiB	GiB/M of exponent	% of primality test time savings probable	Original P-1 bounds	Actual TF limit	Prime95 input TF limit	odds calc consistent with actual?	fft length K stage 1	fft length K stage 2	averaged fft length K	GiB/K of average fft length	notes
66209933	8	.1208	0.7115	695000	75	75	revised	3528	3840	3684	0.002172	E5-1035G1 except as indicated bounds chosen as if TF up to 76, for input 76.2
66254317	8	.1207	0.7693	695000	75	76	ok	3528	3840	3684	0.002172	
66677777	6	.0900	-0.0024	2000000	75	75	ok	3528	3840	3684	0.001629	
72410621	6	.0829	0.4825	705000	75	75	ok	3840	4200	4020	0.001493	
80126987	5	.0624	-0.2100	1140000	75	75	ok	4320	5120	4720	0.001059	
89619349	6	.0669	0.8602	1045000	76	76	ok	4800	5184	4992	0.001202	
100204259	12	.1198	0.9133	1540000	76	76	ok	5376	5376	5376	0.002232	E5-2670 Dual-xeon 128GB so some ram is "closer" than the rest
110500963	12	.1086	0.9861	1030000	77	77	ok	6048	6400	6224	0.001928	
63268229	12	.1897	1.509	660000	74	75	ok	3360	3840	3600	0.003333	
63267751	12	.1897	1.266	660000	75	75	ok	3360	3840	3600	0.003333	
67177697	110	1.6374	1.505	710000	75	75	ok	3584	4096	3840	0.028646	E5-2670 Dual-xeon 128GB so some ram is "closer" than the rest s1 interrupted 122 seconds by benchmarking; see next 1 TF bit offset to approximate prior P-1 effect shows variability for closely spaced assignments shows variability for closely spaced assignments
65956967	64	.9703	1.766	785000	75	75	ok	3584	4000	3792	0.016878	
66602269	64	.9609	1.889	695000	75	76	ok	3584	4000	3792	0.016878	
66602839	110	1.6516	1.458	695000	75	76	ok	3584	4096	3840	0.028646	
63268223	96	1.5173	1.957	660000	74	75	ok	3360	3840	3600	0.026667	
63267653	48	.7587	2.019	660000	74	75	revised	3360	3840	3600	0.013333	
63267643	32	.5058	2.037	660000	74	75	ok	3360	3840	3600	0.008889	
63267983	24	.3793	1.542	660000	74	75	ok	3360	3840	3600	0.006667	
63268013	24	.3793	1.661	660000	74	75	ok	3360	3840	3600	0.006667	
63268091	16	.2529	1.191	660000	74	75	ok	3360	3840	3600	0.004444	

red input Tf value indicates +1 to approximate probability reduction from prior P-1 to inform prime95's bounds optimization



expected % primality test time savings vs GiB/K of P-1 retry avg fft length

