

p<10 ⁹	Trial Factoring	P-1 Factoring	Primality test	
			PRP	Primality test LL
Intel or AMD x64 cpu	prime95/mprime but use gpu instead	prime95/mprime	prime95/mprime / mlucas V19	prime95/mprime / mlucas
ARM cpu	none	none	Mlucas V19	Mlucas
other cpu	na	na	Mlucas V19	Mlucas
AMD GPU	mfakto	gpuowl	gpuowl	gpuowl <v0.7
Intel IGP	mfakto	na	na	na
NVIDIA GPU (OpenCL 2)	mfakto	Gpuowl 6.11	Gpuowl 6.11	Gpuowl 6.11
NVIDIA GPU (<OpenCL 2)		CUDAPm1		
CUDA	mfakto	0.20	na	CUDALucas

Not recommended

10 ⁹ <p<2 ³¹ or 2 ³²	Trial Factoring	P-1 Factoring	Primality test	
			PRP	Primality test LL
Intel or AMD x64 cpu	prime95/mprime but use gpu instead	prime95/mprime	mlucas V19	mlucas
ARM cpu	none	none	Mlucas V19	Mlucas
other cpu	na	na	Mlucas V19	Mlucas
AMD GPU	mfakto	gpuowl	gpuowl	na
Intel IGP	mfakto	na	na	na
NVIDIA GPU (OpenCL 2)	mfakto	Gpuowl 6.11	Gpuowl 6.11	Gpuowl 6.11
NVIDIA GPU (<OpenCL 2)				CUDALucas to 2 ³¹
CUDA	mfakto	na	na	(nowhere to get assignments or report results)

NOT RECOMMENDED!

p>2 ³¹ or 3 ²	Trial Factoring	P-1 Factoring	Primality test	
			PRP	Primality test LL
Intel or AMD x64 cpu	Mfactor or Factor5	na	na	na
ARM cpu	Mfactor or Factor5	na	na	na
other cpu	Mfactor or Factor5	na	na	na
AMD GPU	na	na	na	na
Intel IGP	na	na	na	na
NVIDIA GPU (OpenCL 2)	na	na	na	na
NVIDIA GPU (<OpenCL 2)				
CUDA	na	na	na	na