

Work reservation/assignment and reporting, for Mersenne prime related computation work

mersenne.org			
Work type	notes	Assignment reservation	Result reporting
TF (trial factoring)	0 < exponent < 10 ⁹	https://www.mersenne.org/manual_gpu_assignment/	https://www.mersenne.org/manual_result/
ECM	0 < exp < 40,000,000	https://www.mersenne.org/manual_assignment/	https://www.mersenne.org/manual_result/
P-1	0 < exponent < 10 ⁹	https://www.mersenne.org/manual_assignment/	https://www.mersenne.org/manual_result/
P+1	0 < exponent < 10 ⁹	PrimeNet API of mprime, prime95	PrimeNet API of mprime, prime95
LL	0 < exponent < 10 ⁹	https://www.mersenne.org/manual_assignment/	https://www.mersenne.org/manual_result/
PRP	0 < exponent < 10 ⁹	https://www.mersenne.org/manual_assignment/	https://www.mersenne.org/manual_result/
LL DC	0 < exponent < 10 ⁹	https://www.mersenne.org/manual_assignment/	https://www.mersenne.org/manual_result/
PRP DC	0 < exponent < 10 ⁹	https://www.mersenne.org/manual_assignment/	https://www.mersenne.org/manual_result/
Application-specific or tool-specific also exist such as for MISFIT; cofactor testing via PrimeNet			

mersenne.ca			
Work type	notes	Assignment reservation	Result reporting
TF (trial factoring)	10 ⁹ < exponent < 10 ¹⁰	http://www.mersenne.ca/tf1G.php	http://www.mersenne.ca/bulk-factors.php
P-1	OBDD after TF to 92 bits	https://www.mersenne.ca/obd	http://www.mersenne.ca/bulk-factors.php

gpu72.com			
Work type	notes	Assignment reservation	Result reporting
TF (trial factoring)	subset of mersenne.org	under "My account" on main page menu	?
P-1	subset of mersenne.org	under "My account" on main page menu	?

no known site:		
Work type	Range	Notes
TF (trial factoring)	> 2 ³²	At one time Will Edgington was tabulating factors found for exponents without limit #
ECM	Exponent > 40,000,000	Operation Billion Digits has some slight coverage
P-1	Exponent > 10 ⁹ (except OBDD at mersenne.ca)	Not much of a limitation, since ECM is not effective on large exponents
P+1	Exponent > 10 ⁹	Theoretically, CUDAPm1 can do 10 ⁹ < exponent < 2,147,483,647 (in several weeks or months); Gpuowl also although GPU ram limits stage 2 to ~1G exponent per 16 GB
LL	Exponent > 10 ⁹	Also not suited for wavefront or larger exponents (p>10 ⁹)
PRP	Exponent > 10 ⁹	run times are impractically long on fastest currently available hardware (several months or longer)
LL DC	Exponent > 10 ⁹	run times are impractically long on fastest currently available hardware (several months or longer)
PRP DC	Exponent > 10 ⁹	run times are impractically long on fastest currently available hardware (several months or longer)

work type	exponent range			
	0 < p < 40M	40M < p < 10 ⁹	10 ⁹ < p < 10 ¹⁰	p > 10 ¹⁰
TF	Done *	mersenne.org, gpu72.com	mersenne.ca	none
ECM	mersenne.org	NA	NA	NA
P-1	Done *	mersenne.org, gpu72.com	none	none
P+1	mersenne.org	mersenne.org, not recommended	none	none
LL	Done *	mersenne.org, gpu72.com	none	none
PRP	mersenne.org	mersenne.org	none	none
LL DC	Done *	mersenne.org, gpu72.com	none	none
PRP DC	mersenne.org	mersenne.org	none	none
cofactors	mersenne.org	mersenne.org	none	none

* Done for the purposes of finding new Mersenne primes in minimum computing effort; not necessarily fully factored, or finished relative to various projects' goals.

Archive of Will Edgington's web site

<https://web.archive.org/web/20141014102940/http://www.garlic.com/~wedgingt/mersenne.html>