

--cpu-no-yield	prefer maximum hashrate rather than system response/stability	5.1.1+
--no-huge-pages	disable huge pages support	2.3.0+
--hugepage-size=N	custom hugepage size in kB (Linux only)	2.8.1+
--huge-pages-jit	enable huge pages support for RandomX JIT code	All
--asm=ASM	ASM optimizations, possible values: auto, none, intel, ryzen, bulldozer	2.8.0+
--argon2-impl=IMPL	argon2 implementation: x86_64, SSE2, SSSE3, XOP, AVX2, AVX-512F	6.3.1+
--randomx-init=N	thread count to initialize RandomX dataset	3.0.0+
--randomx-no-numa	disable NUMA support for RandomX	3.0.0+
--randomx-mode=MODE	RandomX mode: auto, fast, light	5.1.0+
--randomx-1gb-pages	use 1GB hugepages for RandomX dataset (Linux only)	5.2.0+
--randomx-wrmsr=N	write custom value(s) to MSR registers or disable MSR mod (-1)	5.2.0+
--randomx-no-rdmsr	disable reverting initial MSR values on exit	5.5.0+
--randomx-cache-qos	enable Cache QoS	6.3.1+

OpenCL backend [↗](#)

Short option	Long option	Description	Version
	--openc1	enable OpenCL mining backend	5.0.0+
	--openc1-devices=N	comma separated list of OpenCL devices to use	5.0.0+
	--openc1-platform=N	OpenCL platform index or name	5.0.0+
	--openc1-loader=PATH	path to OpenCL-ICD-Loader (OpenCL.dll or libOpenCL.so)	5.0.0+
	--openc1-no-cache	disable OpenCL cache	5.0.0+
	--print-platforms	print available OpenCL platforms and exit	5.0.0+

CUDA backend [↗](#)

Short option	Long option	Description	Version
	--cuda	enable CUDA mining backend	5.0.0+
	--cuda-loader=PATH	path to CUDA plugin (xmrig-cuda.dll or libxmrig-cuda.so)	5.0.0+
	--cuda-devices=N	comma separated list of CUDA devices to use	5.0.0+
	--cuda-bfactor-hint=N	bfactor hint for autoconfig (0-12)	5.0.1+
	--cuda-bsleep-hint	bsleep hint for autoconfig	5.0.1+
	--no-nvml	disable NVML (NVIDIA Management Library) support	5.0.0+

API [↗](#)

Short option	Long option	Description	Version
	--api-worker-id=ID	custom worker-id for API	2.4.0+
	--api-id=ID	custom instance ID for API	2.4.0+
	--http-host=HOST	bind host for HTTP API (default: 127.0.0.1)	5.0.0+
	--http-port=N	bind port for HTTP API	5.0.0+
	--http-access-token=T	access token for HTTP API	5.0.0+
	--http-no-restricted	enable full remote access to HTTP API (only if access token set)	5.0.0+

Logging [↗](#)

Short option	Long option	Description	Version
-S	--syslog	use system log for output messages	All

-l	--log-file=FILE	log all output to a file	All
	--print-time=N	print hashrate report every N seconds	All
	--health-print-time=N	print health report every N seconds	5.0.0+
	--no-color	disable colored output	All
	--verbose	verbose output	5.4.0+

Misc [↗](#)

Short option	Long option	Description	Version
-c	--config=FILE	load a JSON-format configuration file	All
-B	--background	run the miner in the background	All
-V	--version	output version information and exit	All
-h	--help	display this help and exit	All
	--dry-run	test configuration and exit	All
	--export-topology	export hwloc topology to a XML file and exit	3.0.0+
	--title	set custom console window title	6.0.1+
	--no-title	disable setting console window title	6.0.1+
	--pause-on-battery	pause mine on battery power	6.3.1+
	--pause-on-active=N	pause mine when the user is active (resume after N seconds of last activity)	6.9.0+
	--stress	run continuous stress test to check system stability	6.4.0+
	--bench=N	run benchmark, N can be between 1M and 10M	6.4.0+
	--submit	perform an online benchmark and submit result for sharing	6.5.0+
	--verify=ID	verify submitted benchmark by ID	6.5.0+
	--seed=SEED	custom RandomX seed for benchmark	6.5.0+
	--hash=HASH	compare benchmark result with specified hash	6.5.0+
	--no-dmi	disable DMI/SMBIOS reader	6.8.0+