

NVMEQRWT Product Details

This is a description of the features of the NVMEQRWT program. For most features the command line option that controls the feature is shown.

NVMEQRWT is a data integrity test. The primary use is to determine that a drive can store and return data without data corruption. NVMEQRWT has found many drive hardware and firmware problems related to the properly handling of user data.

NVMEQRWT Supports:

- * Up to **15 Read/Write queues**. (NUMQUE=n)
- * Up to **32 commands per Read/Write queue**. (NUMCMD=n)
- * Read/Write **transfer lengths of 1 to 512 sectors/blocks** including fixed length transfers (such as all transfers are a multiple of n). (MINTL=x, MAXTL=x)
- * Sector/Block sizes of 512, 1024, 2048, 4096 and 8192.
- * Any Namespace (the Namespace must exist without meta data). Test all sectors/blocks in a Namespace or only a subset. (MINLBA=x, MAXLBA=x)
- * Several Memory Page Sizes (MPS) are supported.
- * Two I/O command sequences:
 - 1) Write pass, read pass then random writes and reads,
 - 2) Sequential writes with random reads and then random writes and read. (SEQ=x)
- * **SGL supported** for Read and Write commands. (SGL)
- * Data generation and data compare including enhanced data compare for some sectors. (COMPARE=x)
- * Detection of command time outs and device hung (no commands executing). (DT0=n)
- * Full tracing of all controller register accesses and I/O commands.
- * **Detailed Read and Write command times**.
- * Several log file name options. (LOG=x)
- * Run times from minutes to many hours. (TIME=n)