

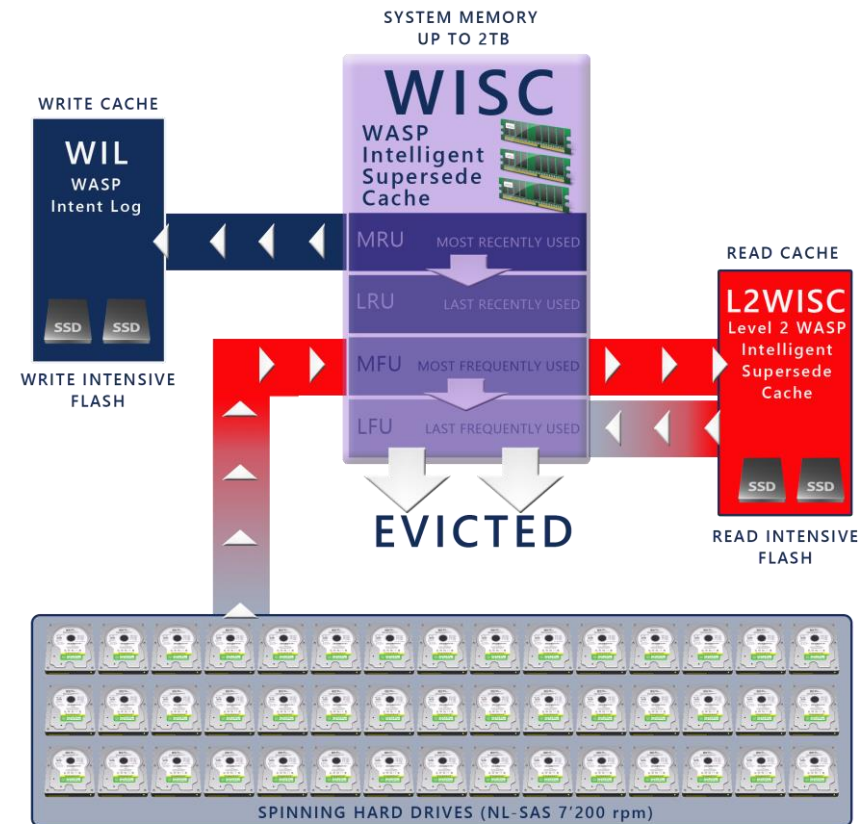
DWACT — (DYNAMIC WORKLOAD AGNOSTIC CACHE TIERING)

DWACT (Dynamic Workload Agnostic Cache Tiering)

DWACT decouples IOPS performance from the physical devices on which the data is stored. To achieve maximum efficiency and performance, a portion of the existing DRAM is used as the WISC (WASP Intelligent Supersede Cache). Together with "WIL" (WASP Intent Log) and "L2WISC" (Level 2 WASP-Intelligent-Supersede-Cache) DWACT enables an extremely efficient and automated caching of data which is accessed on a daily basis.

When new or changed data is stored, DWACT identifies the new/changed blocks and writes them directly to the WIL (write cache) and a copy of these blocks to the L2WISC (read cache). DWACT also dynamically recognizes the blocks that were accessed most frequently and the blocks that were accessed last. DWACT works in real-time and ensures that even in mixed workload environments required data blocks are delivered directly from the very fast L2WISC (read cache).

This technology makes expensive high-speed hard disks or all-flash storage systems obsolete in most cases. This in turn eliminates the need for traditional, inefficient and expensive storage tiering.



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