Why the future of digital storage at any scale will be Software-Enabled

1. Early Adaptation: The Software-Enabled Flash API enables innovators, architects and developers access to the newest flash memory technologies for their data center needs and application development, realizing time-to-market advantages.

2. Innovation Platform: The API isolates storage application development from variances and technology changes of flash. Future generations of flash can be deployed without requiring modifications to applications, software or source code.

3. Flexibility: The technology is software programmable via an Open Source API, which allows developers to create and program their own FTL. This enables programming of custom storage solutions or use of existing and future standards, like ZNS.

4. Host Control: It gives hosts control over flash including the FTL, latency, garbage collection, wear leveling and other storage functions, facilitating faster data access and superior QoS.

5. TCO Savings: The solution provides the tools delivers the tools system architects need to design and optimize flash efficiency using host resources. Architects can define the best use of components to deliver optimized systems for TCO and performance.

6. Endurance: The technology gives vendors the ability to place all necessary flash management techniques into hardware, enabling each developer to deliver the best performance and maximize flash endurance.

7. Compatible Hardware: The hardware is compliant with PCIe® standard, enabling a large ecosystem and accelerating open innovation across multiple products.

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