CHALLENGE: I/O BOTTLENECK

Storage I/O bottlenecks negatively impact IT’s ability to operate the business at full performance potential; workloads are stalled waiting for slower I/O (HDD and network) transactions to complete. Replacing all HDDs in the primary and backend (SAN/NAS) data store with SSDs is the optimal solution resulting in extreme performance gains. However, for many companies, obtaining 100% solid-state storage is not possible in the short term due to budget, regulatory, or operational constraints.

Experience immediate performance gains with minimal investment by using Intel® CAS on an Intel® Solid-State Drive as a server-side solution for caching hot data.

SOLUTION: Intel® Cache Acceleration Software for Linux* (Intel® CAS-L)

Intel® CAS-L is a production ready caching solution validated and optimized for Intel® SSDs. Intel® CAS-L is a block-based caching solution that operates below the application layer; caching relevant data and improving overall system performance while requiring no application or external storage modifications.

Intel® CAS-L is a feature-rich solution which supports several caching modes; write-back, write-through, write-around, cache-warming, and multi-tier. It also supports unique optimizations for Intel® SSD Data Center Family for PCIe* (queue depth) delivering both performance and flexibility to end users.

Intel offers a range of support options from basic support to premium 24/7 on-call assistance. And Intel® CAS-L downloads and installs in less than 30 minutes.

MEASURED RESULTS: UP TO 12X THE PERFORMANCE:

By adding just one Intel® SSD DC P3700 with Intel® Cache Acceleration Software, server database workloads experience a 12x performance increase over an HDD-only storage solution. Intel® Cache Acceleration Software is an intelligent, reasonably-priced solution to store and accelerate hot data on the server without a total system makeover.

RELEVANCE: DOES THIS APPLY TO ME?

If your workload behaves like a data-base or uses data sets larger than system memory resources, your applications are probably impacted by I/O bottlenecks.

Not sure?
- Test and decide for yourself, start today with a Free 120-day trial for Intel CAS for Windows or Linux at: www.intel.com/cas
- Intel expert support staff are standing by to help you get setup and caching in less than 30 minutes

¹Tests document performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. Consult other sources of information to evaluate performance as you consider your purchase.

System Configuration: Intel® CAS v2.7.0, Intel® Xeon® E5-2680 @ 2.7Ghz x2, CentOS® 6.5 kernel 3.10.24, 32GB RAM, 50% of database cached, Intel® SSD DC P3700 Series 400GB, Systbench® v0.4.12 (16 threads, max request=10000).