



Oracle ZFS Storage Appliance: Extreme Enterprise Efficiency and Performance at an Incredibly Low Price

It's not enough to be the fastest storage system if your cost is out of reach. Sometimes a balanced solution is best. Oracle ZFS Storage Appliance offers cost-efficient storage that gives enterprises the right balance between reasonable cost and exceptional performance. Whether it's storage for Oracle Database or another application workload, Oracle ZFS Storage Appliance is engineered to deliver the performance you need with superior management efficiencies that help you reduce ongoing costs.

Million-Dollar Performance at Half the Price

With unique, leading-edge in-memory architecture, Oracle ZFS Storage ZS4-4 Appliance delivers high performance and high efficiency that

- » **Accelerates time to insight for queries and sequential workloads at a fraction of the price.** New benchmarks show 31,488.23 SPC-2 MBPSTM aggregate throughput with US\$17.09 SPC-2 Price Performance.
- » **Speeds time to actionable intelligence in transactional workloads.** Up to 90 percent of I/O comes from massive amounts of dynamic random access memory (DRAM) and multicore CPUs powered by a highly parallel symmetric multiprocessing (SMP) OS.

You get faster queries and faster streaming of sequential data and easily meet your service-level agreements (SLAs)—even within a constrained budget. And, as you can see from the chart below, no other vendor comes close to this level of performance at such a low price.¹



ORACLE®

**ZFS STORAGE
APPLIANCE**

"Implementing Oracle Real Application Clusters, Oracle Enterprise Manager, and Oracle ZFS Storage Appliance has helped us significantly increase our IT environment's performance, availability, scalability, and manageability—providing superior support, tailored to our business needs, while helping us to reduce maintenance costs."

JEAN-PIERRE RASQUIN
IT DIRECTOR, MUNHOWEN

THE FIRST AND ONLY

The fact is that you can't buy a faster storage product on a comparable budget. Oracle ZFS Storage ZS4-4 is the first and only storage system to cross the 30 GB/sec performance threshold for half a million US dollars—that's half the cost of other systems at this performance level.

And it gets better.

Independent testing has demonstrated that administrative tasks take significantly less time with Oracle ZFS Storage Appliance.²

ORACLE®

Integrating with the World's #1 Database

Like Oracle's other engineered systems, Oracle ZFS Storage Appliance is engineered to work together with Oracle hardware and software—integrated, tested, and optimized throughout the technology stack. This level of integration helps enhance Oracle Database performance and efficiency and increases administrative and user productivity. And, because Oracle architects, implements, and maintains the entire technology stack, you can focus less on the technology and more on your business—that's tremendous value for your investment.

Oracle ZFS Storage Appliance offers storage-to-database convergence that automatically recognizes, tunes, and compresses data so you get the most out of your storage and your software with the least manual intervention.

Focus on Your Business, Not on Managing Your Storage

Oracle ZFS Storage Appliance can accelerate your database and application workloads and reduce both capital and operating expenses for your company, helping you

- » Save significant administrative time and resources with easy yet fine-grained management, troubleshooting, and provisioning capabilities. (Time savings can be as much as 30 to 70 percent over NetApp.)
- » Expedite time to revenue with intuitive tools that offer a shorter learning curve for administrators.
- » Gain insight into Oracle Database—insight that gives you a faster time to resolution as well as optimization information that you can't get with other vendors.

The bottom line? With Oracle ZFS Storage Appliance, you get better Oracle integration plus superior monitoring, provisioning, and analytical management tools. That translates to less time spent on administrative tasks and lower operating expenses over time.

Get the Oracle Advantage

Cost-effective performance, coengineering with Oracle Database, and insightful management solutions—all from a single vendor—reduce risk and shorten time to value. Join successful organizations around the world that use Oracle ZFS Storage Appliance to bring faster results to the business. Only from Oracle.

NOBODY DOES IT BETTER

It's just that simple. If you run Oracle Database, you should be considering Oracle ZFS Storage Appliance. No other NAS storage system runs Oracle Database faster or more efficiently.

Oracle ZFS Storage Appliance also offers technical advantages that aren't available with storage products from other vendors. Oracle ZFS Storage Appliance has been engineered to work together with other Oracle hardware and software, so you get advantages that include

- Hybrid Columnar Compression (HCC)
- Automatic Data Optimization (ADO)
- Oracle Intelligent Storage Protocol (OISP)
- DTrace Analytics

For more information, [read the white paper](#) about the technical advantages of Oracle ZFS Storage Appliance.

¹See a summary of these results on the "Top Ten" SPC-2 Results web page at www.storageperformance.org/results/benchmark_results_spc2_top-ten. SPC-2, SPC-2/E, SPC-2 MBPS, SPC-2 Price-Performance, and SPC-2 TSC are trademarks of Storage Performance Council (SPC). Results as of March 17, 2015; for more information see www.storageperformance.org.

Oracle ZFS Storage ZS4-4 31,486.22 SPC-2 MBS \$538,050 TSC - [B00072](#), Oracle ZFS Storage ZS3-2 16,212.66 SPC-2 MBS \$195,915 TSC - [BE00002](#), Oracle ZFS Storage ZS3-4 17,244.22 SPC-2 MBS \$388,472 TSC - [B00067](#), Fujitsu ETERNUS DX8870 S2 16,038.74 SPC-2 MBS \$1,275,163 TSC - [B00063](#), HP StorageWorks P9500 XP Storage Array 13,147.87 SPC-2 MBS \$1,161,504 TSC - [B00056](#), HP XP7 Storage 43,012.52 SPC-2 MBS \$1,217,462 TSC - [B00070](#), Hitachi Virtual Storage Platform (VSP) 13,147.87 SPC-2 MBS \$1,254,093 TSC - [B00060](#), Kaminaro K2 SSD 33,477.03 SPC-2 MBS \$997,348 TSC - [B00068](#), IBM System Storage DS8870 S2 15,423.66 SPC-2 MBS \$2,023,742 TSC - [B00062](#), IBM SAN VC v6.4 14,581.03 SPC-2 MBS \$1,883,037 TSC - [B00061](#).

² Strategic Focus, "Usability Comparison White Paper: Oracle ZFS Storage vs. NetApp FAS Storage," May 2014. (This test report has been prepared under contract from Oracle Corporation.)

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