

Drive Your Data at Warp Speed

The Cray® DataWarp™ applications I/O accelerator

The Cray DataWarp accelerator delivers application-ready flash storage to high-velocity data-driven workflows. Through a balanced and cohesive I/O acceleration tier engineered for the Cray® XC40™ supercomputer, DataWarp technology optimizes performance, maximizes system efficiency and reduces TCO. It scales from 70,000 to 40 millions IOPS in a single XC40 system, delivering up to five times the performance of disk storage at the same cost. The DataWarp accelerator can be used with a diverse set of applications and use cases.



ACCELERATED PERFORMANCE

Speed up I/O-intensive supercomputing

Bring the fastest applications I/O as close as possible to your compute resources with a flexible, balanced infrastructure and central pool of ultrafast I/O resources, mapped to your applications and balanced across storage tiers.



BREAKTHROUGH EFFICIENCY

Five times the performance of disk-only systems

Increase compute and storage utilization for both peak and sustained workloads. The DataWarp accelerator uses SSD-based tiers to reduce the cost per IOPS and the cost of bandwidth — delivering up to five times the performance of disk-based systems.



FLEXIBILITY AND EASE OF USE

Adaptive technology for a broad set of applications

Allocate the appropriate type and amount of data storage and I/O movement per job or node. Storage is dynamically allocated to maximize compute and storage utilization across the entire system — and you can put the best resources where you need them the most.

A Look Inside

<ul style="list-style-type: none"> Flash SSD I/O blades and Aries™ high speed interconnect 	<ul style="list-style-type: none"> Performance gains: I/O and total system compute, bandwidth and IOPS
<ul style="list-style-type: none"> Data virtualization software, management software and I/O forwarding 	<ul style="list-style-type: none"> Integration and support
<ul style="list-style-type: none"> Ability to scale up a data pool to customer requirements 	<ul style="list-style-type: none"> Reduced storage system costs and improved TCO
<ul style="list-style-type: none"> Up to 384 sockets per cabinet, upgradeable with processors of varying core counts 	<ul style="list-style-type: none"> System balance and workflow efficiency