THE FLEXIBLE PATH TO PRODUCTIVITY AT EXASCALE (AND BEYOND)

THE NEW SHASTA™ SUPERCOMPUTING SYSTEM
SAFE HARBOR STATEMENT

This presentation may contain forward-looking statements that are based on our current expectations. Forward looking statements may include statements about our financial guidance and expected operating results, our opportunities and future potential, our product development and new product introduction plans, our ability to expand and penetrate our addressable markets and other statements that are not historical facts.

These statements are only predictions and actual results may materially vary from those projected. Please refer to Cray’s documents filed with the SEC from time to time concerning factors that could affect the Company and these forward-looking statements.
**SHASTA™ ARCHITECTURE**

**THE CORE:**
Converged High Speed Interconnect
3 hop Dragonfly Slingshot™ (Ethernet compatible)

**Flexible Software Environment:**
- DEVELOP with high productivity
- INTEGRATE in any environment
- RUN any workflow reliably
- MAINTAIN without disruption
- SCALE through Exascale

**Flexible Storage:**
Ultra-fast Flash directly on the interconnect – tiered to cost-effective HDD racks

**Flexible Compute:**
Heterogeneous processors (AMD, ARM, INTC, NVDA,...) either in ultra-dense cabinets or standard 19” racks.
SLINGSHOT™ OVERVIEW

The new Cray-designed Slingshot™ system interconnect includes intelligent features to support diverse workloads to execute simultaneously at scale.

Slingshot is a complete rethinking of the interconnect for HPC

- Adaptive routing
- Quality-of-Service
- Congestion Management

Slingshot integrate seamlessly into a variety of datacenter types

- Standard ethernet compatibility
- Multiple packaging types including liquid and air cooled options
# FLEXIBLE COMPUTE INFRASTRUCTURE

<table>
<thead>
<tr>
<th>Ultra-dense Cabinet Option</th>
<th>Standard 19” Rack Option</th>
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<tbody>
<tr>
<td>• 100% direct liquid cooling</td>
<td>• Front to back air cooling</td>
</tr>
<tr>
<td>• 64 compute blades with 4-16 sockets/blade</td>
<td>• Liquid Cooling options for some nodes</td>
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<tr>
<td>• Lowest TCO/up to 10 years w/o forklift upgrade</td>
<td>• Fits into every data center</td>
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<tr>
<td>• Scales to &gt;100 cabinets</td>
<td>• Scales to &gt;100 racks</td>
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Same Interconnect - Same Software Environment
SHASTA™ PULLS STORAGE ONTO SLINGSHOT™ HSN

Traditional Model

- Traditional High Speed Network
- LNET
- Compute Node
- HDD

Shasta™

- Slingshot™ High Speed Network
- LNET
- Compute Node
- SSD
- HDD

Benefits:
- Lower cost
- Lower complexity
- Lower latency
- Improved small I/O performance

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FLEXIBLE SOFTWARE CHOICE

• Applications, middleware and ISV software run off-the-shelf on Shasta™ if supported in the standard distribution
• Cray-provided standard Linux distribution infrastructure plus Slingshot™ and hardware infrastructure management support.

• Flexibility through easy integration of:
  • Open source distributions
  • Standard commercial distributions
  • Customer distributions

Slingshot™ and Shasta™ hardware infrastructure management

Standard Linux kernel and system services (RHEL, CentOS, others TBD)

Cray provided distribution
THANK YOU