Technology Vision

Easy-to-Use
Pre-built Customized
HPC Systems

- For End Users, Application Developers
- Pre-configured HPC IaaS
- Secure Gateway and I/O Framework
- Robust UI/UX and API
The New Era of HPC Cloud Platform

XTREME-Stargate Building Blocks

- Dashboard
- Billing Payments
- Data Manager
- HPC Templates
- User Management
- Reporting

National Supercomputer Center (Planned)

XTREME-Stargate Managed Baremetal IaaS
- X-Stargate IaaS Gen1
- X-Stargate IaaS Gen2
- Parallel Filesystem

XTREME-Stargate Managed Virtual IaaS
- Virtual IaaS
- Azure
- AWS
- Oracle Cloud
- Parallel Filesystem

OEM Cloud IaaS (Planned)
XTREME-Stargate Main Components

- XTREME-Stargate Dashboard + HPC Templates
- XTREME-Stargate IaaS (Intel Powered HPC Instances)
- XTREME-Stargate HPC Gateway
- XTREME-Stargate Secure File I/O (2019 H2)

Setup time: From weeks to Minutes
Simple and Robust Web UI
<table>
<thead>
<tr>
<th></th>
<th>X-Stargate IaaS G1</th>
<th>X-Stargate IaaS G2 (Early Access Available from TODAY!!)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Type</td>
<td>Intel Xeon Gold 6148 (2.40GHz, 20 Cores) x 2, 128GB MEM (DDR4-2666)</td>
<td>New Intel Xeon 6230 (40 Cores per node) 192GB MEM (DDR4-2993)</td>
</tr>
<tr>
<td>Max CPU Cores (Per Users)</td>
<td>320 Cores /user</td>
<td>960 Cores /user</td>
</tr>
<tr>
<td>Inter Connect</td>
<td>Omni-Path 100Gbps</td>
<td>Omni-Path 100Gbps</td>
</tr>
<tr>
<td>Parallel File System</td>
<td>BeeGFS</td>
<td>BeeGFS</td>
</tr>
<tr>
<td>White River Glacier I SSD</td>
<td>32TB / user</td>
<td>-</td>
</tr>
<tr>
<td>(Pre-production Model)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White River Glacier II SSD</td>
<td>-</td>
<td>- Planned</td>
</tr>
<tr>
<td>Persistent Memory DDR4</td>
<td>-</td>
<td>- Planned</td>
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</tbody>
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XTREME-D’s Pre-Build HPC Managed Cluster Instances Line-Up

- **XTREME**
  - Stargate: Full Power, Large Memory. Designed by XTREME-D. For HPC and AI Data Analytics and Gaussian/Gaussview.

- **aws**
  - Virtual Cluster Designed by XTREME-D. Cost Effective. GovCloud (US) Region Available.

- **ORACLE**
  - Baremetal Cluster Designed by XTREME-D. GPU, ROCE. Reasonable Data Downstream Fee.

- **Azure**
  - Virtual Cluster Designed by XTREME-D. GPU, InfiniBand, LowCost Instance.
Come and watch a demo, get more details at the XTREME-D table

and come catch us around:
Naoki Shibata, CEO (shibata@xtreme-d.net)
David Barkai (David@xtreme-d.net)