



**Hewlett Packard**  
Enterprise

# HPC AAS @HPE

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# HPE GREENLAKE HYBRID CLOUD

## HPE GreenLake Central

Choose, activate and monitor public and private cloud services in HPE GreenLake Central  
Access your resources—cloud operations, KPIs, service management, cost, compliance

### Private



Design, deployment, operations,  
cost and compliance optimization



Workload Optimized  
Consumption-based IT

### Public



Design, deployment, operations,  
cost and compliance optimization



Managed public cloud

## One cloud experience

Your right mix, with Cloud Ops for private and public clouds—multicloud, multi stack

## We operate your clouds

Cloud native automation: Monitored, administered and managed

## We optimize your clouds

Cost, compliance, security and performance monitoring and management

## Consumption enabled

Enabling consumption on premises, managing your hybrid experience

# HPE HIGH PERFORMANCE COMPUTING SOFTWARE PORTFOLIO (2020)

## Application and Software Development Ecosystem

Development Environment  
 Debug & Performance  
 MPI

**Cray Programming Environment**

- C/C++, Fortran, UPC Parallel Performance Libraries
- CrayPAT
- Reveal
- Gdb4hpc
- Valgrind4hpc
- Cray MPI for Slingshot

Intel® Parallel Studio XE (w/Intel MPI) | Arm® Allinea Studio | AMD AOCC

PGI Compilers | NVIDIA GPU Cloud | GNU Compilers

Arm® Forge Professional | Perforce TotalView™ | Vampir

HPE Message Passing Interface (MPI) | Open MPI | Mellanox® HPC-X™

## Workload Management & Orchestration

Altair® PBS Professional® | Slurm® | Kubernetes® | Containers: Docker®, Singularity

## Remote Visualization

NICE DCV and EnginFrame

## File Systems

Cray ClusterStor E1000 with ClusterStor Data Services, Cray View for ClusterStor | WekaIO Matrix

## Data Management

HPE Data Management Framework (DMF)

## System Management

**Cray Software**

- Cray System Management

HPE Performance Cluster Manager | Bright Cluster Manager®

## Fabric Software

Cray Slingshot Fabric Manager

Mellanox® Unified Fabric Manager™ | Intel® Omni-Path Fabric Software

## Operating System

Cray's Linux Environment

SUSE® Linux Enterprise Software | RedHat® Enterprise Linux™ | CentOS | TOSS





# THANK YOU

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