

SUPERCOMPUTING



CRAY



Microsoft
Azure



ALL OF THE POWER, NONE OF THE FOOTPRINT.

Dealing with data center readiness to house supercomputers can be a pain. Customers would rather focus on science and development than dealing with data center retrofits. Existing customers may run out of space, or may not be able to bring in additional power and cooling needed for their next supercomputer.

One solution: accessing remote supercomputing power through Cray in Azure—true supercomputing power at your command without any of the associated infrastructure needs.



COSTS ARE CONSTRAINED, FLEXIBILITY AND GROWTH ARE NOT.

Many customers would rather avoid the large capital expense of an on-premise system and datacenter. With Cray's cloud solution via Microsoft Azure, users can get started with supercomputing without having to dedicate any capital expenditure dollars. Users also:

- Benefit with the flexibility of an OPEX model;
- Avoid the regular overhead that comes with owning and operating an on-premise system.



FOCUS ON USING YOUR SYSTEM, NOT MANAGING IT.

Fear of managing a supercomputer and expertise needed to extract the most from it can be intimidating to even the most skilled administrators. Many customers who need supercomputing solutions would rather focus on innovation and research & development instead of managing an onsite supercomputing system.

Let Cray experts take away these challenges and manage the systems for you to achieve the peak performance you can get.



NOT ALL CLOUDS ARE CREATED EQUAL.

Existing cloud users who are unable to scale their most demanding workloads in the cloud could greatly benefit from the Cray in Azure solution. Their most demanding workloads can benefit from on a high speed interconnect, fast parallel file systems and a general systems approach to scale beyond the what is available in the cloud.

Users get their own dedicated Cray supercomputer in the Azure datacenter. By enabling a communication fabric between cores on different compute nodes, a supercomputing interconnect offers greater processing performance over cloud solutions (such as AWS) that lack a true high-performance interconnect.

Moreover, by removing any need to share resources or buy time on a supercomputing machine, users of Cray in Azure avoid wait times or reduce the wall clock times of being frequently interrupted by higher priority workloads.



FLEXIBILITY OF AZURE, SCALABILITY OF CRAY TO PROCESS ALL YOUR DATA UNDER THE SAME ROOF.

With the availability of unlimited storage and ease of use to move data into the cloud, customers have amassed large amounts of data in public clouds. The capabilities needed to process the data in a timely manner may not be available in the cloud, and moving this data off of the cloud can be prohibitively expensive.

With Cray in Azure, customers can build cost effective, rich, integrated workflows that combine the elasticity and breadth of services available in Azure with the sheer scalability of the Cray supercomputer, without having to incur data egress charges.



CRAY



Microsoft
Azure