

HPC View

IDC's *HPC View* is an annual primary research survey that gains insights into the deployment strategies, purchase plans, and adoption rates of the buyers of high-performance computing (HPC) infrastructure. Respondents include a mix of those using HPC on traditional IT infrastructure as well as those deploying via dedicated and public cloud services.

MARKETS AND SUBJECTS ANALYZED

- High-performance computing — also known as modelling and simulation (M&S) — is one of three areas of performance-intensive computing (PIC) where large-scale mathematically intensive computations are performed.
- Analysis of both self-built and/or managed HPC infrastructure (computing platforms, storage systems, and related infrastructure software)
- HPC as a service via either a dedicated or public cloud platform (IaaS, PaaS, and SaaS).

CORE RESEARCH

- Executive Summary (Annual)
- Digest of Survey Findings (Annual)
- Banner Book with Worldwide and Regional Insights Where Available (Annual)
- Readout/Webinar (Annual)
- Unlimited Access to Associated Analysts for Inquiries
- Ability to Request Non-Vendor-Related Data for Reprints (Additional Charges)
- Note: In addition to the above research available for the base price, subscribers will be able to access non-vendor-related data for reprints. Subscribers also gain the ability to provide input into future surveys. IDC will provide subscribers the ability to gain country, company size, and other non-published insights via custom market intelligence (CMI) add-ons. Subscribers will also have the option to purchase customized content packages, additional readout sessions, and other bespoke data insights via CMI add-ons.

In addition to the insight provided in this service, IDC may conduct research on specific topics or emerging market segments via research offerings that require additional IDC funding and client investment. To learn more about the analysts and published research, please visit: [HPC View](#).

KEY QUESTIONS ANSWERED

1. What is the average expenditure on HPC infrastructure split by use case category as well as by deployment type including on-premises self-built, with a managed service provider, and/or with a dedicated or public cloud service (IaaS, PaaS, and SaaS)?
2. What is the current HPC infrastructure usage across the three main market segments — supercomputing, custom (institutional) enterprise HPC, and mainstream (commercial) HPC — examining adoption rates, market trends, and customer sentiment?
3. What are the current implementations and future requirements by computing platform attributes, including platform type (classical computing and quantum computing), deployment (core versus edge), and medium-sized platforms (rack form factors) and/or large platforms (standalone racks)?
4. What are the current implementations and future requirements by stack attributes, including workload (abstraction and profile), compute (instance type, parallelization, and scaling), storage and connectivity (storage type, storage data organization, file storage type, and clustering connectivity), and deployment architecture (control plane, deployment location, and management type)?
5. What are the vendor product attribute ratings, including computing complication types, processor architecture and attributes, media and memory, convergence, precision (floating point) types, and cooling options?

COMPANIES ANALYZED

This service reviews the strategies, market positioning, and future direction of several providers in the market, including:

Amazon Web Services, AMD, Atos, Cisco, DDN, Dell, Fujitsu, Google, HPE, Huawei, IBM, Intel, Lenovo, Microsoft, NetApp, NVIDIA, Pure Storage, VAST, and Weka.