# High Performance Computing

## Supercharge and simplify high intensity tasks for groundbreaking results

High performance computing (HPC) is the act of aggregating computer power to process tremendous amounts of data.

Diverse use-cases for HPC are continually emerging, as enterprises realise the potential in solving complex business issues. From healthcare, clinical and medical research to finance, fraud, and federal defense, opportunities for HPC span numerous sectors, including:

- Computational finance
- Artificial intelligence
- CAD/CAM/CAE
- Federal intelligence
- Media and entertainment
- Manufacturing and construction
- Data science and analytics
- Medical research and imaging
- Safety and security

## HPC with Ingenuity Cloud Services

### Global reach

We operate world-class data centers in London, Amsterdam, Frankfurt, New York City, and Salt Lake City. Global partnerships with carefully selected service providers extend our reach world-wide, enabling us to offer over 50 data centers in more than 30 locations across five continents.

Our IT infrastructure offering is expanding. Supported by the global requirements of our parent company, THG Ingenuity Cloud Services (the renowned end-to-end tech platform), we are well placed to leverage economies of scale; this makes us far more competitive commercially than most stand-alone infrastructure providers.

### Bare metal servers

Enhance your performance with our bare metal servers. Our superfast network, coupled with up to 10Gbps connectivity, provides low-latency throughput wherever you need it. Backed by the overall capacity you expect from a worldwide provider, we can deploy and support hundreds of your servers in any of our global data center locations.

### GPU

Supercharge your central processing unit (CPU) with a graphics processing unit (GPU) built to operate across a large number of cores simultaneously, generating enormous advantages in speed and performance. We partner with NVIDIA to provide industry leading GPU servers, with the capacity to expand in the chassis. As with our standard server models, the processing units are changeable, ensuring your GPU solution is scalable to your requirements.

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**Virtual servers**

Virtual servers provide the flexibility to run your business applications precisely, and as you see fit. Add and remove servers when necessary to cope with the peaks and drops in your traffic demands, while aligning cost and revenue goals.

Our virtual servers are reliable, affordable, and loaded with fast storage for maximum performance and redundancy. Let us handle the hosting layer so you are free to focus on your customers and products.

**Colocation**

Our global colocation services connect your enterprises, service providers and cloud platforms with superior flexibility and enterprise level bandwidth. Discover industry leading speed to roll out your new services in any number of worldwide locations.

Take your operations to the next level with our world-class facilities and guarantee the space, power, security, and cooling that your business needs.

## Talk to us about your HPC requirements.

Schedule a consultation with a HPC expert.