

Brief

Get to market faster with higher-quality products



HPC Innovation Hubs

As part of the HP-Intel Innovation Initiative, small-to-medium manufacturers can access the power of high-performance computing on-demand to innovate and compete more effectively.



Together, HP, Intel®, and our partners give you access to:

- Leading-edge HPC computing resources
- Sophisticated modeling and simulation software
- Expertise of the world's leading HPC experts

Run hundreds to thousands of design simulations per day

As a manufacturer, you're challenged to get to market quickly with high-quality products that meet a rapidly shifting set of customer expectations and regulations.

Advanced simulation and modeling software can enhance the design and development process by enabling you to run hundreds to thousands of design simulations per day. This reduces the need for time-consuming and expensive physical prototyping cycles and allows you to model multiple scenarios quickly to hone in on the optimum design. As a result, you can get to market faster, with better products.

But these powerful simulation and modeling applications require massive amounts of compute resources—provided by high-performance computing (HPC) clusters—to run them. And most small-to-medium manufacturers (SMMs) lack the budget, IT expertise, and infrastructure to handle advanced modeling and simulation demands.

Access to HPC resources and expertise

With the HP-Intel Innovation Initiative, when it comes to leveraging HPC to supercharge your competitive ability, you don't have to have massive resources to invest in HPC solutions. And you don't have to go it alone.

Supercomputing is a team sport

HP has strong roots in the manufacturing industry, with proven capabilities and established relationships spanning the full manufacturing lifecycle, as well as insights, expertise, and technologies for designing and building HPC clusters that leverage Intel processors and co-processors.

HP and Intel have partnered with the National Center for Manufacturing Sciences and prominent universities to provide HPC on-demand to SMMs who aren't in a position to buy and operate their own HPC clusters.



HPC Cluster Solutions

When you're ready to implement your own HPC cluster, HP can help. HP has partnered with industry leaders like ANSYS and Dassault Systèmes' Simulia to take the complexity and guess work out of creating an HPC solution for your workload needs. HPC Cluster Solutions, designed specifically for small and medium sized manufacturers help make high performance computing solutions affordable to own, simple to deploy and easy to manage.

[Learn more](#)

Resources

hp.com/go/compete

hp.com/go/manufacturing

More than just compute power

Building a better product requires more than just access to HPC infrastructure resources. That's why the HP/Intel HPC on-demand offering is a 360-degree engagement.

It begins with a visit to one of the HPC Innovation Hubs such as George Mason University, where team members sit down with you to understand your design challenges and goals. The team then crafts an ideal, end-to-end experience that includes access to sophisticated modeling and simulation software, along with experienced HPC engineers who can help you get the most out of your project.

Benefits

With help from HP, Intel, and our HPC partners, you can access HPC capabilities, software, and expertise that will help you drive growth, overcome complexity, and get to market faster with higher-quality products.

Benefits include:

Leverage advanced modeling and simulation software capabilities without the need for large capital investments in HPC, advanced modeling and simulation software, or the IT staff expertise required to run it.

Design better products by simulating hundreds or thousands of permutations to improve the customer experience and win market share.

Shorten the product development cycle and get to market faster by creating and testing multiple designs without the need for time-consuming physical modeling.

Expand your product portfolio by easily testing and validating multiple options to meet customer demands.

Get started today

Don't wait to start experiencing the benefits of HPC on-demand for manufacturing design simulation and modeling. Get in touch with your HP sales representative or read more about our HPC solutions for manufacturing.

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