



# Workstation Innovation News



by **Robert Green**,  
*Cadalyst*  
Contributing  
Expert

## Boost Your Productivity with HyperTune for NX

Tuning utility — included with every new HP Workstation — helps you maximize the graphics performance of NX 3D modeling software.

Every CAD application has its unique resource demands and, thus, each one taxes workstations in a different way. The size of your CAD models, the amount of rendering you do, and the graphics intensiveness of your design environment affect workstation's performance — and your productivity.



Because that performance dictates how quickly you can get your work done, wouldn't it be great if your workstation and software developers worked together to maximize your workstation performance? Well, that's exactly what HP has done with HyperTune for NX™, an included toolset that ships with all HP Workstations, including professional HP Z Workstations powered by Intel® Xeon® and Intel® Core™ processors.

### Tap the Power of HyperTune for NX

HyperTune for NX optimizes graphics-intensive operations of NX™ 3D CAD/CAM/CAE software (versions 17 and later) from Siemens PLM Software. Running under the control of [HP's Performance Advisor](#)<sup>1</sup> (also included with every new HP Workstation), HyperTune for NX provides a palette of testing and tuning tools designed specifically for NX™, in addition to the standard HP Performance Advisor reporting tools.

HP Performance Advisor requires administrator privileges to run, so users who have been granted that access can run HyperTune for NX.

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Designed specifically to optimize the graphics performance of NX™, HyperTune for NX runs inside HP Performance Advisor.

When you access HyperTune for NX from HP Performance Advisor, it performs some basic integrity checks to ensure the proper installation of supported NX™ software tools. If it finds any inconsistencies, HyperTune for NX reports the problem.

Assuming all software components pass muster, you can initiate HyperTune for NX and access the software user interface.



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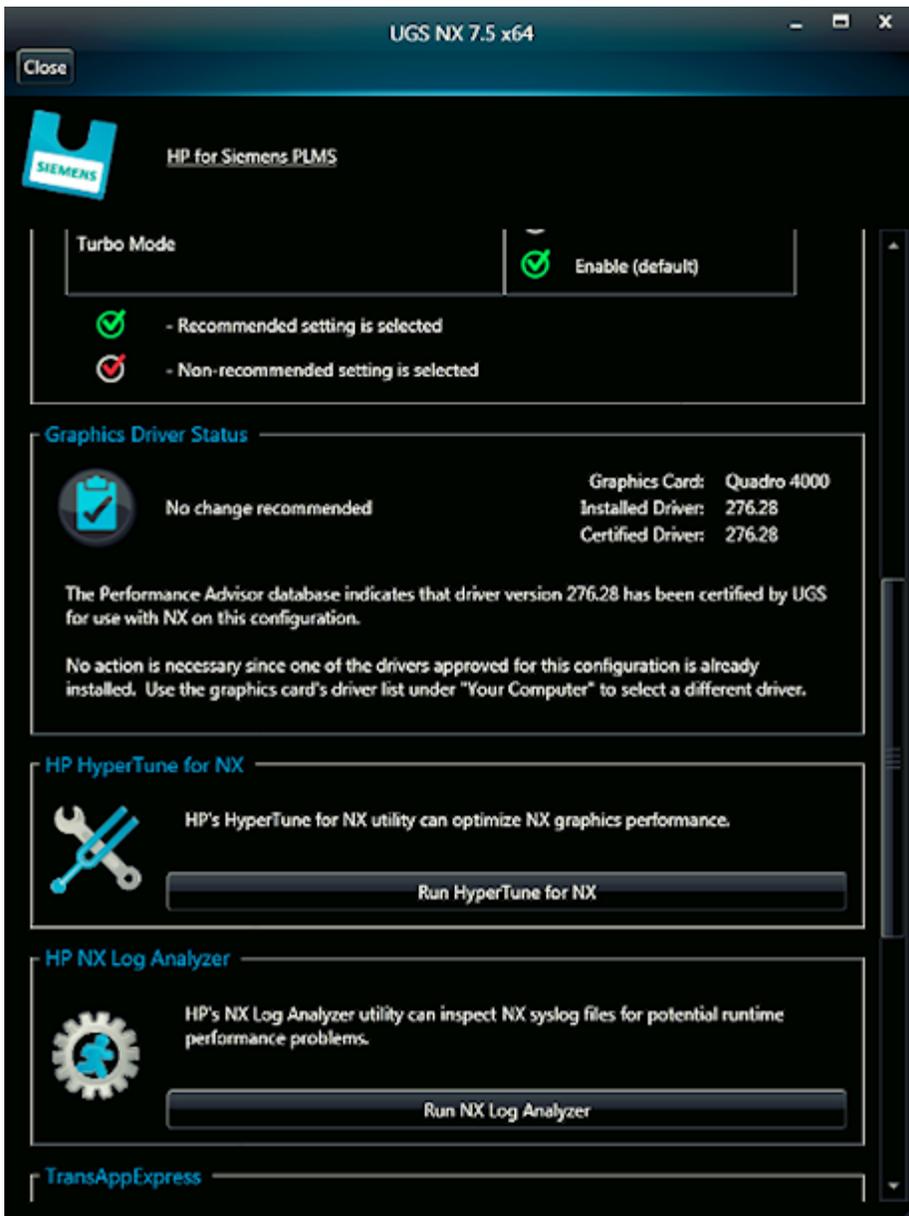
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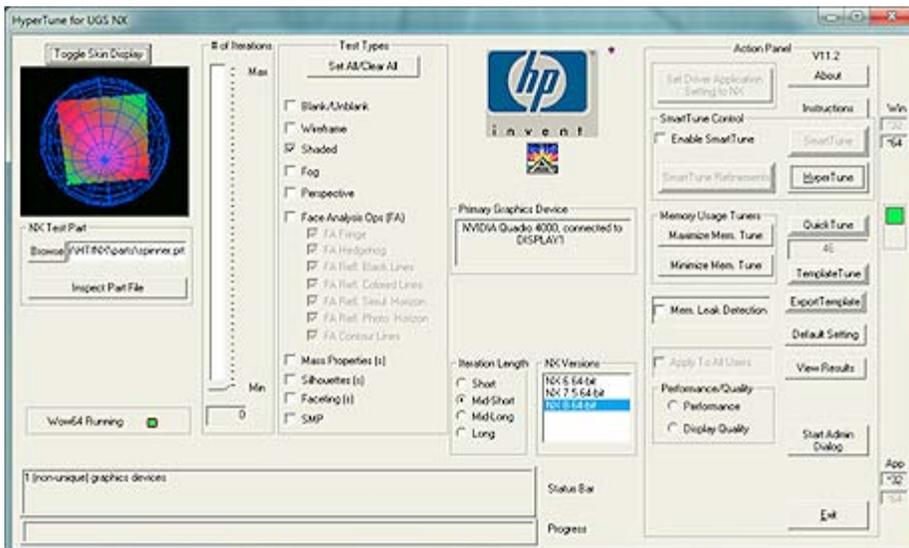


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Launch HyperTune for NX by clicking the Run button in the software panel shown here.



The HyperTune for NX interface screen provides access to all the functions for optimizing system performance.

All screen images courtesy of Autodesk

### Additional Resources

- [HP Certification](#)
- [HP Performance Advisor](#)
- [HP Remote Graphics](#)
- [HP Total Care](#)
- [HP ePrint & Share](#)
- [HP & Autodesk Brochure](#)
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Use HyperTune's Quick Tune function to easily set the fastest setting identified for your installed graphics card.

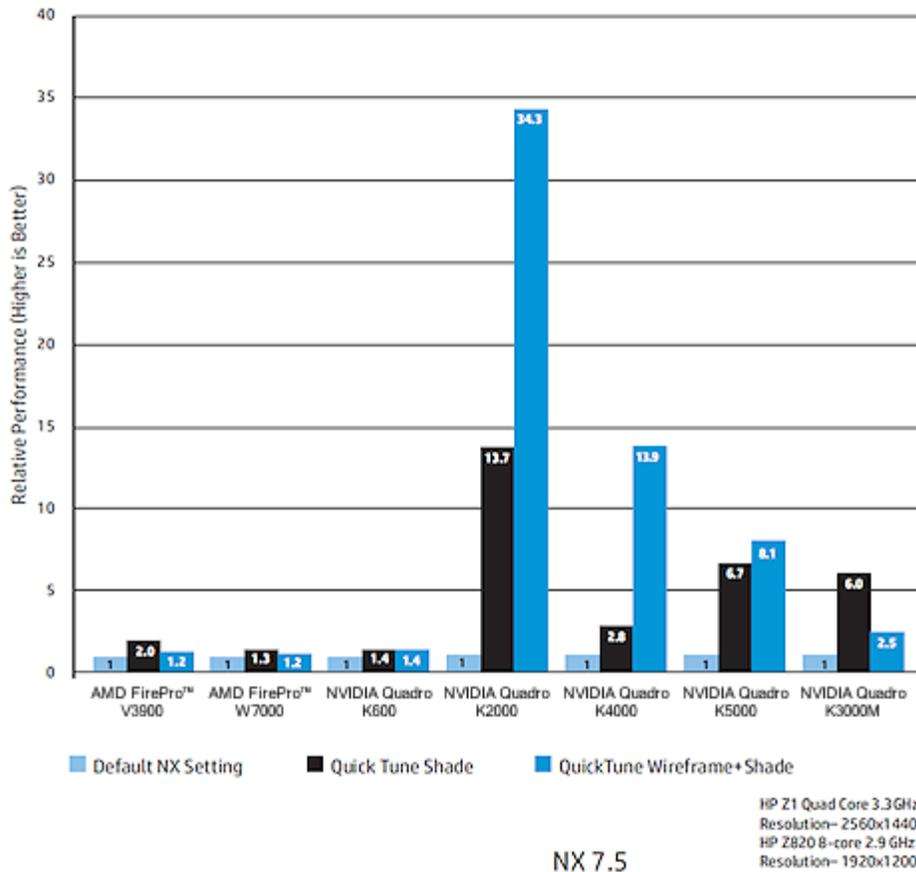
To ramp up the analysis, HyperTune for NX also offers the option to customize settings and run tests using your own NX™ files. Simply browse to load your part or assembly, then specify the # of Iterations to run, the Test Types you wish to perform (according to the graphics-intensive functions you typically use in NX), the Iteration Length to run each test, and your NX Version, then click the HyperTune button.

The performance benefits of running HyperTune for NX can be immediate, says Scott Glover, Workstations Technical Marketing Manager in the HP Commercial Solutions Business Unit. "If HyperTune for NX reports improvements in the graphics operations they use in NX, users could see immediate graphics performance gains when running NX."

Finally, CAD managers and IT administrators can use the Export Template function to port configuration results to similarly equipped workstations in the company.

### Why 3D Performance Matters

Because NX™ is a 3D design tool, most users will perform some degree of rendering and/or analysis, and that is where the HyperTune for NX application finds performance gains. The Quick Tune option lets you fine-tune the performance of a variety of NX functions on a variety of graphics adapters. Considering the amount of time users spend rendering large files, that performance gain can be significant.



This chart shows the results of running HyperTune for NX on various graphics adapters, from entry level to high end. (Source: HP)

"Many users have reported HyperTune for NX has improved NX graphics performance," says Glover. "Sometimes NX [already] has the most optimal graphics path set, so in those cases, there are no additional gains. We have not received any feedback that HyperTune for NX has had a negative impact to NX graphics performance."

### Boost Productivity with HyperTune for NX

If you can speed the performance of your workstations, you can save time — it's that

simple. And because time is money, your company will reap the savings of more productive NX™ users simply by letting the HyperTune for NX utility do its job. Time savings of just a half-hour per week — that's six minutes per workday — translates into 25 man-hours per year per NX™ user!

So, what would you spend for a utility that would make your NX™ users more efficient? You'd probably be willing to pay a substantial amount for that sort of performance boost, right? But because HyperTune for NX ships with every HP Workstation at no extra cost, you don't have to! All that's required is that you spend a little time — not money — optimizing your system configuration. HyperTune for NX is a real value for NX™ users and your company.

When you consider how much money you spend on workstations and software in hopes of achieving maximum efficiency, advanced tools such as HyperTune for NX start to make a lot of sense.

## Wrapping Up

By leveraging HP's Performance Advisor framework, HP gives you the ability to achieve substantially higher performance from your NX™ application. If your company uses NX™-based software, you can't afford to miss out on the benefits of HyperTune for NX.

## About the Author

Robert Green provides CAD implementation, consulting, and programming services for a variety of companies throughout the United States and Canada. He holds a degree in mechanical engineering from the Georgia Institute of Technology and is the author of *Expert CAD Management: The Complete Guide*. Reach him via his web site at [www.cad-manager.com](http://www.cad-manager.com).

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