

**Press Release**  
For immediate release



## 64-Bit Windows Nastran with New Parallel Equation Solver Shows Major Gains in Solution Times and Large Model Capabilities

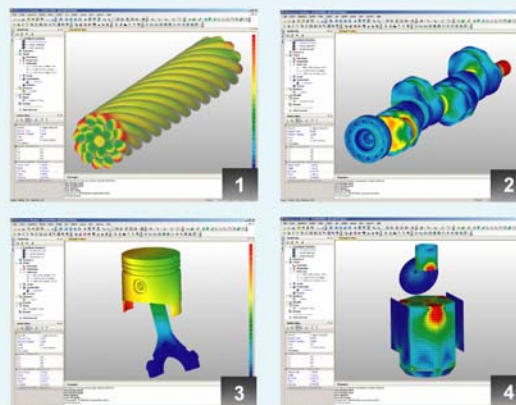
Westminster, CA, March 13, 2007 – Noran Engineering, Inc. (NEi) a leading provider of engineering analysis and simulation software announced the release of NEi Nastran V9.0 Windows x64, a Finite Element Analysis (FEA) software designed to run on 64-bit Windows Operating Systems. In addition to being able to access memory above 4GB, the software contains a new parallel equation solver technology known as Parallel Sparse Solver (PSS). PSS fully exploits 64-bit hardware and the combination provides FEA users with the following benefits over 32-bit:

- Significantly faster solution speeds through parallel processing and efficient use of CPU architecture
- Large model capability (+15 million degrees of freedom)
- Efficiency in the use of computing resources (e.g. speed scales with processing power, high degree of independence of shared-memory multiprocessing architecture)
- Enhanced robustness in solution capabilities (e.g. handles non-positive definite matrices)
- Reduces the need for de-featuring

NEi Nastran is used to solve a wide range of engineering problems including linear and nonlinear static and dynamic structural, and thermal with steady-state and transient heat transfer. NEi Nastran V9.0 Windows x64 FEA software exploits 64-bit hardware and the Windows OS for all analysis types. The illustration details the solution time improvement for several different analyses from a variety of industries. A webpage devoted to the discussion of 64-bit NEiNastran can be found at [www.nenastran.com/NEiNastran V9 Windows x64](http://www.nenastran.com/NEiNastran_V9_Windows_x64).

Noran Engineering is providing a special introductory offer on NEi Nastran V9.0 Windows x64 over the next 30 days to promote the new product and to enlist and document user gains with the technology. "We expect users will experience substantial performance gains using the 64-bit Nastran solution and we would like to document and convey that to the analysis

### 64-bit NEiNastran Yields Major Performance Improvements on Large FEA Models



1. 1 million DOF nonlinear static analysis of a twisted cable, 2x speed improvement on 64-bit.
2. 12.3 million DOF linear static crankshaft model solved in 66 minutes.
3. Piston assembly with 2.6 million DOF, 2x speed improvement on 64-bit.
4. 358,000 DOF direct frequency response of a satellite, 8 times faster on 64-bit.

For more information, go to [http://www.nenastran.com/NEiNastran V9 Windows x64](http://www.nenastran.com/NEiNastran_V9_Windows_x64).



Noran Engineering, Inc.  
1-877-Nastran | [www.NEiNastran.com](http://www.NEiNastran.com)

community”, explained NEi’s Director of Sales, Julia Oien

Images connected with this story can be viewed and downloaded at  
<http://www.nenastran.com/pressReleaseImage.php>

**About Noran Engineering, Inc.**

Noran Engineering, Inc. (NEi) is a world leader in developing Nastran engineering analysis and simulation software for structural, thermal, dynamic, fluid flow, fatigue, composites, and optimization and is used by innovative companies worldwide in aerospace, automotive, maritime, petrochemical, military, medical, consumer, and sports products.

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