

FOR IMMEDIATE RELEASE



CONTACT:

Rhonda Brabbin
Noran Engineering, Inc.
1.714.899.1220 phone
1.714.899.1369 fax
info@noraneng.com
www.NENastran.com

Noran Engineering Launches V8.2 of NE/Nastran Its Powerful Finite Element Analysis Software

V8.2 Brings a Next-Generation Lanczos Eigensolver, Analysis Performance Gains, and Enhancements to the Industry Unique NEi Editor.

LOS ALAMITOS, CA, August 15, 2002 — Noran Engineering, Inc. (NEi) announces the release of NE/Nastran V8.2, the latest upgrade of its powerful, cost effective, and easy-to-use finite element analysis (FEA) tool for engineers in a variety disciplines.

NE/Nastran V8.2 adds a next-generation Lanczos eigensolver based on the same PCGLSS technology powering NE/Nastran's linear and nonlinear static solutions. The new eigensolver is over 10 times faster than typical Lanczos eigensolvers with this factor increasing dramatically for large models over a quarter million degrees of freedom. It requires considerably less memory and handles models with any combination of element types. A typical extraction time for 10 modes on a complex model (1.5 million degrees of freedom) is under 6000 seconds using an 866MHz Intel Pentium III desktop.

Other enhancements include an improved element library with new spline and pipe elements and enhanced shell and shear elements. Increased compatibility with MSC.Nastran formatted model input files is achieved through the addition of complete wide field support and 15 new entries including PBARL/PBEAML. The new Lanczos eigensolver coupled with the addition of an easy-to-use modal database restart option mean significant performance gains in normal modes and dynamic response analysis. Linear and nonlinear analysis performance is improved with an upgraded PCGLSS solver generating results 10-20% faster. Creep analysis support, and a new bi-directional initial strain capability for shell & solid elements has also been added. Heat transfer analysis is greatly improved with the addition of spatial dependence for convection boundary conditions.

The industry unique NE/Nastran Editor has been enhanced with several new features. Real time 3D rendered graphics displays both deformed and contour stress. Real time XY data plots for tracing results. A graphical status bar shows real time nonlinear convergence status. Real time nonlinear parameter modification is now available and a sensitivity study tool has been added.

“NE/Nastran bundled with FEMAP is for serious, professional, structural analysts that require serious, accurate answers and documentation in the shortest time with the least cost and hassle,” says Brooks Mitchell of Applied Structural Analysis, Inc. “Comparing "bang per buck," nothing on the market can touch NE/Nastran.”

NE/Nastran V8.2 is priced at \$2,190 to \$5,490 per license, depending on configuration.

Solution types include: Linear and Nonlinear Statics, Modal, Buckling, Prestress, Linear and Nonlinear Transient, Frequency, and Random Response, Response and Shock Spectrum, Transient Event Simulation, and Nonlinear Steady-State and Transient Heat Transfer Analysis.

For a FREE evaluation copy, additional product information or to order NE/Nastran V8.2, call toll-free at (877) NENastran or visit us online at www.NENastran.com

System requirements for NE/Nastran V8.2: Intel Pentium Class Processor, AMD K6-2, or Athlon Processor; Microsoft Windows 98, 2000, NT, XP; 128MB of available memory (512MB recommended); 200MB of available hard disk space (2GB recommended); CD-ROM drive. (Linux & UNIX versions also available)

Noran Engineering, Inc. is a world-wide leader in CAE. Established in 1991 Noran Engineering Inc. (NEi) was created with the idea of bringing a true Nastran analysis tool from the mainframe to the desktop. Our flagship product NE/Nastran accomplished that goal. Eleven years later Noran Engineering Inc. continues to lead the competition by improving and enhancing the software's unique blend of power, ease-of-use and cost effectiveness. Noran Engineering, Inc. is aggressively focused on commitment to the customer and continuous software development.

###