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Media Contact: Ed Kase, Tech-X Corporation
(303) 444-2416
ekase@txcorp.com

Tech-X Corporation Releases VORPAL v4.2
New release allows VORPAL users to better solve problems

Boulder, CO – August 4, 2010 - Tech-X Corporation of Boulder, Colorado, announced the release of VORPAL v4.2. VORPAL is a software framework that enables electromagnetic and electrostatic simulations composed of particles and fluids for 1-D, 2-D, and 3-D geometries. New capabilities will allow researchers to apply VORPAL in new application areas and enable more advanced simulations of the physics being studied.

VORPAL Expands its Problem Domain with New Capabilities

Originally released in 2005, VORPAL offers a unique combination of physical models to cover the entire range of plasma simulation problems. Laser wakefield accelerators, plasma thrusters, high-power microwave guides, and plasma processing chambers are only a few of the many applications benefiting from the powerful, parallel algorithms incorporated into the VORPAL framework. New capabilities include additional collision models, import of user-defined secondary electron yield data, a new photoemission model, and delta-F particles for modeling tokamak geometries.

Expertise to Solve Complex Problems

With expertise in high-performance computing and extensive domain knowledge modeling of processes and devices, Tech-X offers product training and product usage consulting to help customers leverage the investment in VORPAL as quickly as possible. The company also provides consulting services to help customers configure and optimize their VORPAL environment.

VORPAL has been optimized for maximum performance on various computing platforms, ranging from desktop machines to supercomputers. Its powerful domain decomposition algorithms, checkpoint capabilities, and the use of standard data formats enable VORPAL to efficiently execute complex plasma simulations on thousands of processors.

For more information on VORPAL, please visit <http://vorpal.txcorp.com>.



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About Tech-X Corporation

Tech-X Corporation is committed to technical excellence and innovation. Our technical staff addresses specific research questions and delivers quantifiable results, culminating in specialized - skills, advanced technologies, and commercial products that enable large-scale computing solutions and offer a greater understanding of physical processes. Among our core competencies is the simulation of processes, devices, and physical systems related to plasma physics, fusion, and accelerator technologies, performed on computer systems ranging from desktops to Grand Challenge class high-performance computers. By creating software for simulations and the infrastructure to support our research development, we are able to increase our understanding of complex physical phenomena. For more information, visit <http://www.txcorp.com>, and in western Europe <http://www.txcorp.co.uk>.

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Daresbury Innovation Centre, Keckwick Lane, Daresbury, Cheshire, United Kingdom, WA4 4FS
Tel +44 01925 320210

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