

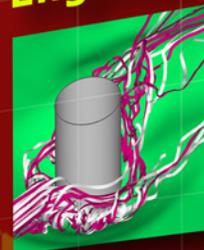
A USDOT-Funded High-Performance Computing Center TRANSPORTATION RESEARCH AND ANALYSIS COMPUTING CENTER

Allocations Available to Transportation Analysts

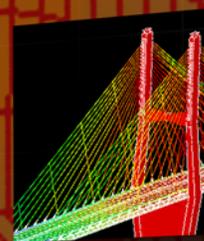
At Argonne National Laboratory's
**Transportation Research and Analysis
Computing Center**,
experience an advanced, state-of-the-art,
high-performance computing environment —

- Highly-skilled experts provide technical support in the use of TRACC's advanced engineering analysis software;
- Simulation-based design and analysis are done on state-of-the-art massively parallel computing system;
- Advanced scientific visualization allows researchers to explore data faster and at higher fidelity.

TRACC's Advanced Engineering Software



Computational Fluid Dynamics — the commercial codes STAR-CD and ANSYS Fluent are used for computational fluid dynamics in applications such as bridge hydraulics analysis, flow-induced vibration of bridge components, and vehicle aerodynamics.



Computational Structural Mechanics — the commercial code LS-DYNA® is used for computational structural mechanics applications, such as crashworthiness, roadside hardware evaluation, and bridge stability and dynamics analysis.



Traffic Modeling and Simulation — the USDOT-developed software system, TRANSIMS, is used for traffic modeling, including such applications as traffic simulation in metropolitan areas, evacuation planning and evaluation, and long-range regional planning.

