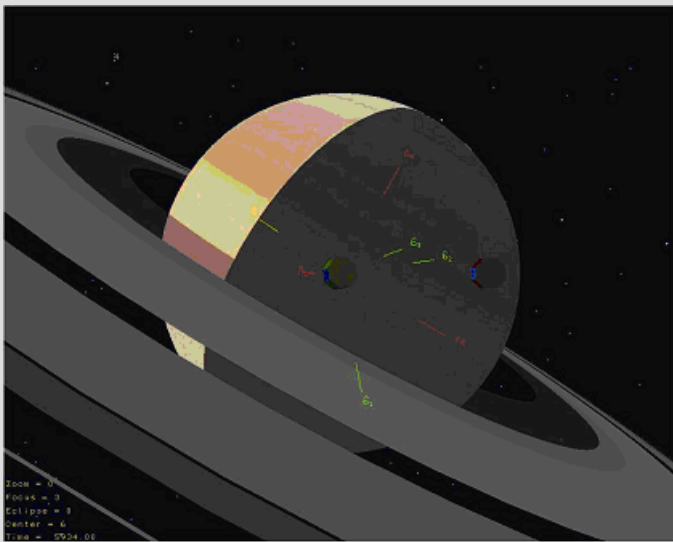


Overview

Emergent Space Technologies, Inc. is a leader in distributed modeling and simulation based on message-oriented middleware technology. Emergent has developed a variety of 3-DOF and 6-DOF hardware-in-the-loop and software-only spacecraft simulations, including the Spacecraft Trajectory and Attitude Real-time Simulator (STARS), Precision Formation Flying Integrated Analysis Tool (PFFIAT), and Java Astrodynamics Toolkit. Emergent offers comprehensive space mission simulation design, development and support services.

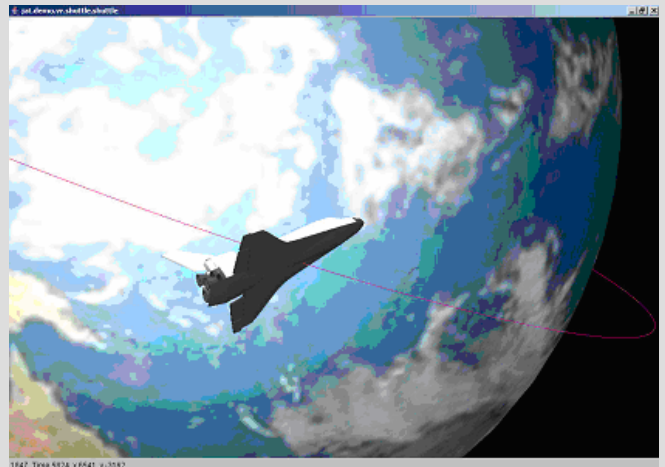


STARS

Emergent has developed STARS to support the NASA Goddard Space Flight Center (GSFC) Formation Flying Test Bed (FFTB), a middleware-based hardware-in-the-loop simulation and test facility. STARS provides true spacecraft orbit and attitude information at 10 Hz in real-time to drive multiple spacecraft simulations.

PFFIAT

Emergent is participating in the development of NASA GSFC's PFFIAT, which integrates the Optical Systems Characterization and Analysis Software (OSCAR) with the FFTB at NASA GSFC. PFFIAT can be used to demonstrate how spacecraft navigation and control performance impacts the performance of large aperture optical systems using spacecraft formations.



Java Astrodynamics Toolkit (JAT)

The JAT is an open source library of reusable components for the rapid development of 3-DOF and 6-DOF spacecraft simulations including 2-D and 3-D visualization. JAT is licensed under the GNU General Public License and is available at:

<http://jat.sourceforge.net/>.