

# CLOSED LOOP OPERATION

## **NAVLABS High Performance GPS Constellation Simulator designed for closed loop operation in multi-sensor dynamic simulation environment**

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Our **CLOSED LOOP GPS Constellation Simulator** provides a same-platform integration of our Digital GPS Simulation Engine and the Tapestry Real-Time Computation Kernel running at 1 KHz..

the LABPRO can be procured in a ***Real-Time Closed-loop (RT) configuration***. In **RT** configuration, 6-DOF Vehicle dynamics are controlled real-time via the fiber-optic shared memory transfer provided by SCRAMNet.

This system is designed for the following applications:

- As a drop-in replacement/upgrade-path for the [L3COM/IEC-STS2450 GPS Constellation Simulators](#).
- GPS outputs consistent with Proprietary Vehicle motion profiles.
- Flight operational and Safety trainers: These include aircraft, helicopters and ground based systems.
- Multi-sensor development laboratories in which the various sensors are distributed. The LABPRO-RT can slave or source a 10MHz clock and 1-PPS.
- Closed loop feedback systems.

# VEHICLE MODELING

# NAVLABS

