LynuxWorks LynxOS-178 Flies High in Super Mid-size Business Jet Market

LynuxWorks, Inc.

Rockwell Collins' Pro Line Fusion integrated avionics system runs on LynxOS-178

San Diego, CA–LynuxWorks, Inc. [1] has announced LynxOS-178 is flying high. The recent announcement by Rockwell Collins that its Pro Line Fusion integrated avionics system that uses LynxOS-178 is now in service on the Gulfstream G280, marks the system's debut in the super mid-size business jet market segment.

"This deployment is a major step in the continued widespread use of LynxOS-178 in avionics systems," states Robert Day, Marketing VP for LynuxWorks. "New market segments, such as the business jet market, further expand the reach of standards-based software and benefit from the software's ability to reduce the time and cost of platform development and its subsequent certification."

Earlier this year, LynuxWorks received Advisory Circular AC 20-148 approval from the FAA for reusable software components (RSC) authorized for the LynxOS-178 product used in the Rockwell Collins Adaptive Flight Display Runtime, Common Computing Module Runtime, Data Concentration Module Runtime and Synthetic Vision Module Runtime for Pro Line Fusion.

About Rockwell Collins Pro Line Fusion

Pro Line Fusion offers unmatched breadth and capabilities that span from turboprops to air transport and military aircraft. The system integrates and displays essential flight information through empowering graphically rich interfaces, including high-integrity head-up guidance featuring synthetic and enhanced vision and the industry's largest format LCD primary flight displays (15 inch). These state-of-the-art interfaces make flying more intuitive and greatly enhance pilot situational awareness during all phases of flight.

Pro Line Fusion is the only avionics system scalable to meet the mission needs of the full range of business and regional air transport aircraft. To date, Pro Line Fusion has been selected for 15 new aircraft platforms, including one military application.

Standards-Based Approach for Reuse

LynxOS-178 addresses system developers' need to meet FAA certification by providing a time, space and resource partitioned commercial off-the-shelf (COTS) operating system that fully satisfies the objectives of the DO-178B, level A and the ARINC 653 standard as well as full conformance with the IEEE POSIX Standard.

Normally, when a systems integrator or developer wants to integrate components of any other RTOS, or any previously certified DO-178B software in multiple hardware environments, each new hardware/software configuration or system must be recertified. Using LynxOS-178 and its RSC approval allows avionics integrators and developers to take full advantage of the existing certification of the LynxOS-178 components for new systems and platforms. The RSC acceptance letter from the FAA for LynxOS-178 can be used to support virtually any FAA Technical Standard Order.

About LynxOS-178 RTOS

LynxOS-178 is a COTS RTOS that fully satisfies the objectives of the DO-178B level A specification and meets requirements for Integrated Modular Avionics developers. LynxOS-178 delivers the security and real-time responsiveness needed for safety-critical systems and provides a low-risk path to DO-178B certification for developers to meet the technical requirements in the production of software for airborne systems.

In addition, LynxOS-178 provides full POSIX conformance, enabling developers to take advantage of the time-to-market and investment-protection benefits of open standards-based development. The powerful formula of DO-178B certification and POSIX conformance allows developers to meet the most stringent requirements for real-time safety-critical applications while at the same time ensure application portability, software reuse and interoperability between embedded systems.

For more information visit www.lynuxworks.com [1].

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[1] http://www.lynuxworks.com