

For Immediate Release:

ADI Announces the Availability of ADSIM for the ADEPT Framework

June 25, 2019. Ann Arbor, Michigan.

Applied Dynamics announces the availability of support for the ADSIM programming language within the ADEPT Framework.

Support for ADSIM within ADEPT means that existing customers with important legacy ADSIM model assets are able to continue leveraging these assets by transitioning them into a state-of-the-art execution environment and networked framework running on 64-bit industrial real-time Linux servers.

About the ADEPT Framework

The ADEPT Framework is an industrial data and control software platform built around the concept of a “data framework” that links industrial real-time Linux servers as a distributed resource and provides desktop client control of the time-deterministic computing and data handling capability. The ADEPT Framework is used in the largest, most demanding industrial data and control applications across the global aerospace and defense industry, but also scales down to work with low-cost computing and open source real-time Linux. The open architecture framework allows users to leverage best-in-class COTS and open-source technologies in a common, project-based environment.

The ADEPT Framework software dramatically reduces the cost and time to deploy and operate industrial real-time Linux servers, with comprehensive capability and trusted technology.

About ADSIM

ADSIM is a simulation language based on the CSSL specification and was first made available for the AD100 real-time computer. It has been used by many ADI customers to develop sophisticated simulations, including hardware-in-the-loop simulations, and incorporating both continuous-time subsystems for physical modeling and discrete-time subsystems for controls modeling.

ADSIM allows a domain expert to write the model with respect to ordinary differential equations rather than via procedural code. The ADSIM compiler automatically orders the equations for evaluation and generates portable C-code. Many of the key elements of a typical simulation language are built into the language, such as numerical integration techniques, function generation, and control system nonlinearity functions.

A white paper released by ADI in 1989 illustrated the productivity gains from using ADSIM vs FORTRAN as a simulation language for a 6-DOF missile simulation. The simulation required 3950 lines of FORTRAN code vs 1150 lines of ADSIM code.

About Applied Dynamics

Applied Dynamics helps companies make better use of modeling assets through all stages of product development, verification testing, demonstration, training, and maintenance. Applied Dynamics flagship product, the ADEPT Framework, is a real-time, industrial Internet of Things (IoT) model-based systems engineering software platform providing an agile, feature-rich environment for supporting the product development lifecycle through development, integration, verification, and certification. ADEPT embraces an open architecture and allows its users to leverage best-in-class COTS components. The ADEPT user base includes more than 50% of the Fortune 500 A&D companies and extends into marine, power systems, oil & gas, and the automotive industry.

To learn more about how ADI can help your team, visit www.adi.com or send an email to adinfo@adi.com.

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