At the Embedded Systems Conference Silicon Valley, National Instruments announced the NI LabVIEW Embedded Module for ARM Microcontrollers, an extension of the LabVIEW graphical system design platform that directly targets the ARM 7™, ARM 9™ and Cortex-M3™ microcontroller families. The module is the first product in an ongoing collaborative venture between the companies that combines the ease of use of LabVIEW with the performance of ARM microcontrollers.

Using the new module, engineers and scientists can create embedded applications in LabVIEW and deploy them to more than 260 microcontrollers created from microprocessor IP licensed by ARM and manufactured by the world's leading semiconductor companies including Analog Devices, Atmel, Luminary Micro, NXP, Freescale Semiconductor, Intel and Texas Instruments.

The LabVIEW Embedded Module for ARM Microcontrollers features LabVIEW drivers that make it possible for domain experts to graphically program all components of the ARM microcontroller including the analog and digital I/O. The module also features desktop simulation capabilities so that users can run the programs they develop for an ARM microcontroller on a desktop PC without any additional hardware. Engineers and scientists can use the desktop simulation with NI Multisim, the interactive SPICE simulation and circuit analysis software, to simulate the entire signal design chain for a truly comprehensive embedded system design simulation environment.

Other new features of the LabVIEW Embedded Module for ARM Microcontrollers include a project wizard that automates configuration and overall setup to help users establish projects quickly as well as an interrupt manager that simplifies interrupt-driven programming by setting up LabVIEW code to run when specific hardware interrupts occur. In addition to the software, National Instruments offers a development kit that includes a choice of an MCB2370 evaluation board with an NXP ARM7 or a Stellaris LM3S8962 with a Luminary Micro Cortex-M3.

For more information about the LabVIEW Embedded Module for ARM Microcontrollers, including webcasts, data sheets and an evaluation kit, readers can visit www.ni.com/arm.