

Impulse C-to-FPGA Solutions to be Highlighted at Embedded Systems Conference

Xilinx-sponsored ESC workshop features FPGA-enabled video processing

What: Embedded Systems Conference 2009

Where: McEnery Convention Center, San Jose, CA, Meeting Room N

When: Tuesday, March 31, 2009 at 11 AM, 1 PM, 3 PM and 5 PM

San Jose, CA – March 26, 2009 – Impulse Accelerated Technologies joins Xilinx, Inc. to showcase fast prototyping and development of real-time HD video processing applications, using Xilinx FPGAs and Impulse C-to-FPGA design tools.

Using a Xilinx targeted design platform, workshop attendees will implement an FPGA-based MicroBlaze(TM) processor system controlling an HD-video data pipeline with real-time object recognition. This workshop includes implementation of the processor system, connection of the video pipeline, addition of the video recognition engine, and viewing results of modifying the filter parameters in real-time.

This application showcases the ability of the FPGA to provide a flexible, single-chip solution for high-throughput video processing. The Impulse C-to-FPGA tools enable video application developers to configure on-board hardware using software programming methods. The introduction of a C-language tool set specifically designed for video applications helps open up FPGAs for wider group of software/hardware developers, and enables new categories of high-throughput applications to be moved into FPGAs for system integration and improved performance, at reduced power and cost.

According to David Pellerin, Impulse CEO, "C-to-FPGA tools, combined with the Xilinx ISE Design Suite FPGA tools, are a powerful and productive way to integrate custom filters into a video pipeline. This advanced tool flow allows video algorithm developers to create complete video processing applications without the need to write low-level hardware descriptions."

ESC attendees can register for the hands-on, 90-min workshop by visiting Xilinx booth #1420, or at meeting room N. Xilinx will be holding a drawing for a free MP3 player after each workshop.

About Impulse

Impulse provides software-to-FPGA solutions for embedded and high performance computing. Impulse solutions are used to accelerate the development and deployment of high-throughput applications in domains that include defense, aerospace, automotive and consumer electronics. For more information about Impulse C-to-FPGA solutions, visit www.ImpulseAccelerated.com or call 425-605-9543.