

Intel-Based Financial, Image & Data Processing Algorithms Accelerated via Impulse C to XtremeData Integration

Hardware co-processing accelerates algorithm development and performance through Intel communication standard

Kirkland WA and Schaumburg, IL – May 25, 2010 – XtremeData, a provider of large data analytics and complex computing solutions, and Impulse Accelerated Technologies, provider of FPGA synthesis tools for video/image processing and network packet parsing applications, today announced the successful integration of Impulse C-to-FPGA compiler tools with XtremeData's XD2000i co-processing platform.

The integration of Impulse synthesis tools with XtremeData products helps design teams meet stringent time-to-market and system performance goals. For example, filters created using Impulse tools easily integrate with Altera MegaWizard™ IP, XtremeData libraries, Impulse libraries and hand coded HDL to allow rapid creation of complex systems. Top tier defense contractors, financial services and national security customers are using Impulse C with XtremeData systems. With this tool flow, development teams begin with existing software code. The Impulse IDE incorporates designs created in Visual Studio, Eclipse, GCC or GDB. The Impulse integration with XDI supports access between hardware and the host processor, memory, streams and signals.

The integration of the Impulse compiler with the XD2000i platform enables application designers to more quickly move critical C code into pure hardware, addressing performance challenges and achieving working applications faster. A recent University of Washington study measured that engineers using Impulse C and the XtremeData platform were able to develop algorithms in as little as half the time required for HDL, and to iterate those algorithms in 1/8 of the time.

“XtremeData has configured everything an algorithm developer needs in a hardware accelerated system, in a manner that facilitates scaling,” said Brian Durwood, CEO of Impulse Accelerated Technologies. “They have created a powerful, integrated platform that takes advantage of the Intel APIs between a host microprocessor and the hardware accelerator elements, and in doing so have created an ideal platform for development as well as deployment.”

The integrated tool flow enables hardware/software development teams to meet performance targets by offloading microprocessor code to parallel processing hardware elements. The algorithms remain primarily hardware independent such that they can readily migrate to newer hardware.

“Impulse C-to-FPGA tools bring a large, open, innovative user community to the XtremeData acceleration appliances,” said Geno Valente, VP of XtremeData. “This helps expose our high performance data acceleration capabilities to a broad, heterogeneous audience, and operational cost.”

Key Features & Benefits

Algorithms can be accelerated 10x - 100x via parallelizing and datatype optimizations
Reuse valuable corporate IP by retargeting existing C code to hardware
Test files for hardware validation can be generated from the design C code
Hardware independent design allows rapid migration to newer generation FPGA processors

About XtremeData, Inc.

XtremeData offers innovative solutions to large data analysis and complex computing problems. XtremeData's focus is on enabling customers to extract actionable knowledge from their data and gain competitive advantage with analytics. XtremeData is headquartered in Schaumburg, IL, USA. For more information, visit www.xtremedata.com.

About Impulse Accelerated Technologies, Inc.

Impulse, creator of Impulse C, provides synthesis tools, training and intellectual property to over 450 development teams worldwide. Impulse users include network processing, image and video processing developers. Impulse serves financial services, national security, automotive and consumer electronics customers. Impulse is headquartered in Kirkland, WA, USA. For more information, visit www.impulseaccelerated.com.

###

Contacts:

Geno Valente

gvalente@xtremedata.com

(847) 871-0379

(847) 305-4155

Brian Durwood

brian.durwood@impulseaccelerated.com

(425) 605-9543 #109