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## Impulse FPGA Image Processing Design Services and IP Reduce Project Risk

### *DSP and Microprocessor Algorithms Refactored for FPGA Acceleration*

**Kirkland, WA** – February 25, 2008 – Impulse Accelerated Technologies, a leading provider of high-level programming solutions for FPGAs, today announced the launch of a new Professional Services Team providing C-to-FPGA Services and custom IP for high-throughput processing. With this new Team, Impulse offers custom engineering, tools, training and platform integration services, helping application development groups reduce their project risk while increasing performance and design reuse.

"FPGAs have clear benefits for increasing application throughput," said Ralph Bodenner, Impulse VP of Engineering. "Our FPGA design experts can help design teams mitigate risk and gain more productive methods for software-to-FPGA conversion. Our goal with the Professional Services Team is to help design teams rapidly convert their applications to FPGAs, using Impulse CoDeveloper and other methods. We can help hardware/software teams get up and running faster, complete their FPGA projects more quickly, and confidently plan their next product delivery. We see ourselves as methodology consultants as well as design service providers."

The Impulse Team offers a range of services, including refactoring of microprocessor and DSP algorithms for FPGA acceleration, custom FPGA platform integration, custom IP, and in-depth onsite or remote training. Training programs and custom reference examples are offered for new or more experienced users of FPGAs, with the goal of helping design teams become more productive users of FPGAs for higher level applications, including the use of multi-core hardware parallelism. IP, in the form of royalty free libraries of optimized functions, is offered to help design teams get started with complex applications such as pipelined filters. In all cases, the Impulse team facilitates the modularization and reuse of IP components to make it easier for successive software oriented teams to leverage and reuse FPGA hardware and software.

With this Services initiative, Impulse is leveraging its existing experience in FPGA-based processing for national security, industrial automation, financial transaction processing and other high-throughput applications. Impulse has provided tools and design services to eight of the top ten defense contractors worldwide, and numerous other Fortune 500 organizations. Recent projects have included military vision enhancement and object detection systems that combine FPGA and DSP devices for high-throughput video. Other current projects are related to real-time HD video analysis, and accelerated network transaction processing.

## **About Impulse**

Impulse is the market leader in software-to-FPGA solutions for embedded and high performance computing. Impulse provides C-to-FPGA programming solutions for a wide variety of embedded and high performance computing platforms. Impulse solutions allow application developers to combine traditional workstation and embedded processors with application-optimized, software programmable FPGA coprocessors. The Impulse C compiler and libraries support rapid design iteration and algorithm refactoring, providing visibility and control to software programmers targeting hardware-accelerated systems. Impulse also provides customized FPGA libraries, reference applications and FPGA training services. [www.ImpulseC.com](http://www.ImpulseC.com)