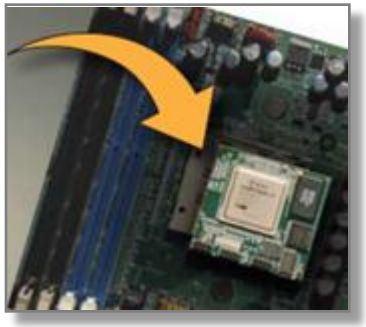
Hardware-Accelerated Computing Solutions

Software-to-Hardware Tools for an Accelerated World!

David Pellerin, CEO
Impulse Accelerated Technologies
550 Kirkland Way, Suite 408
Kirkland, WA 98033
206-931-1540 (direct)
David.Pellerin@ImpulseAccelerated.com
www.ImpulseAccelerated.com



Impulse Software-to-FPGA Solutions

Software tools for FPGA programming

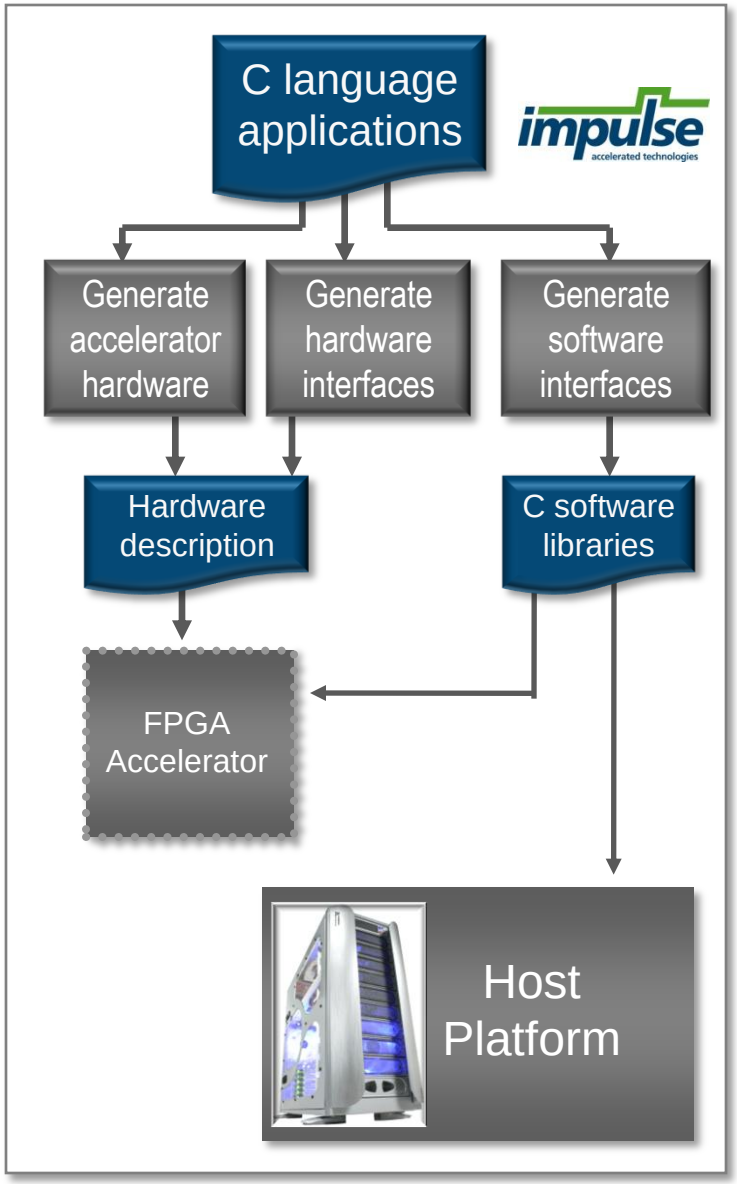
- For embedded and enterprise applications
- Allows programming in standard C language
- Enables hardware acceleration of software

CoDeveloper™ with Impulse C™

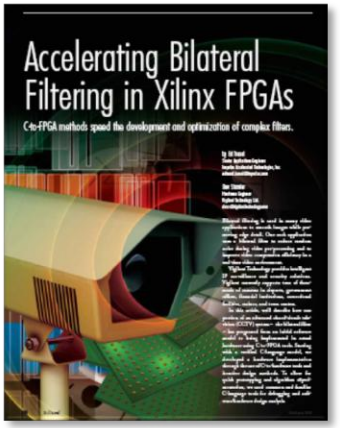
- Software-to-hardware compiler
- Optimizes C code for parallelism
- Generates standard FPGA design formats
- Also generates hardware/software interfaces

"We were able to achieve over 60X speedup of Monte-Carlo simulations, with just three months of effort. The Impulse support team has provided timely and relevant help along the way."

Rishi Khan, Research Engineer
ET International



Why Use Impulse C?



Reduced application development times

- Faster, more agile application development
- Faster time-to-prototype and reduced risk
- More opportunity for design optimization and experimentation

Reduced project costs

- Reduce or eliminate costly, high-risk hardware design phases
- Get your prototypes working faster in FPGA hardware

Example: image processing for defense/aerospace

- Advanced, embedded image processing algorithm for machine vision
- Customer saved an estimated three developer-months of effort
- Customer was able to try applications never before considered for an FPGA

From Software to FPGA Hardware

C-based design

- Emphasizing iterative methods of programming

Desktop simulation

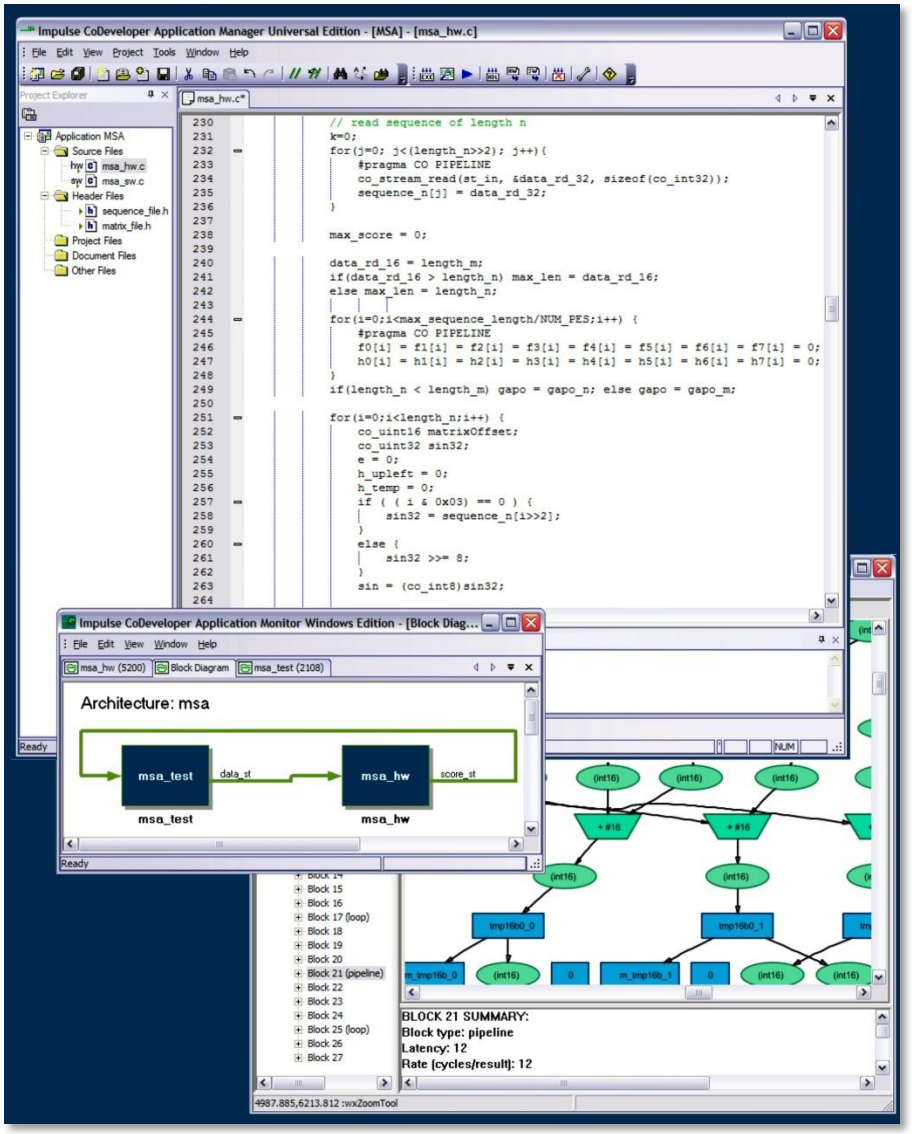
- Using standard C tools

C-to-FPGA compilation

- VHDL or Verilog

Interactive optimization

- For high performance



Real, Measurable Value

Increased productivity

- Supports agile, software-oriented methods of FPGA programming

Fewer errors

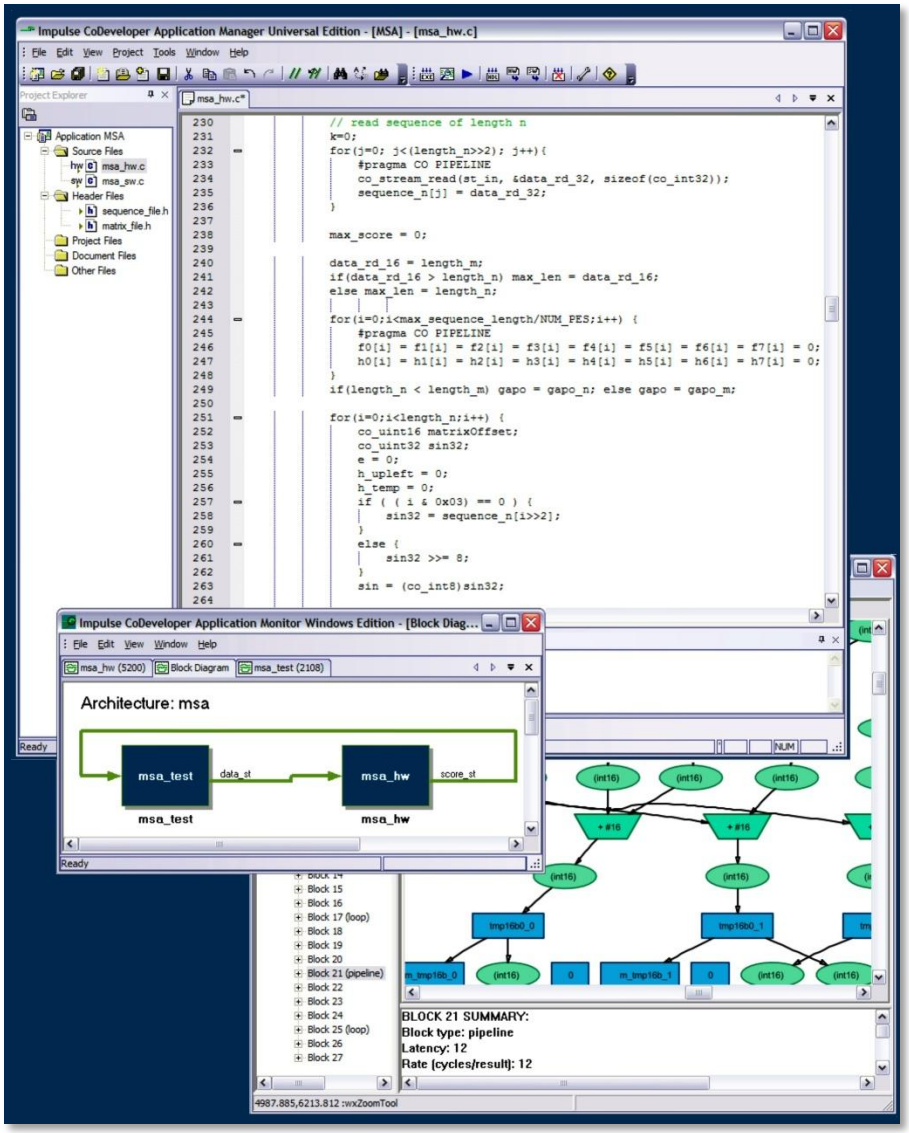
- Through faster time-to-prototype and faster design iteration

Better performance

- More computations per Watt!

"Being able to use C code, work with floating point types, and improve our performance so quickly has changed our way of designing FPGA logic."

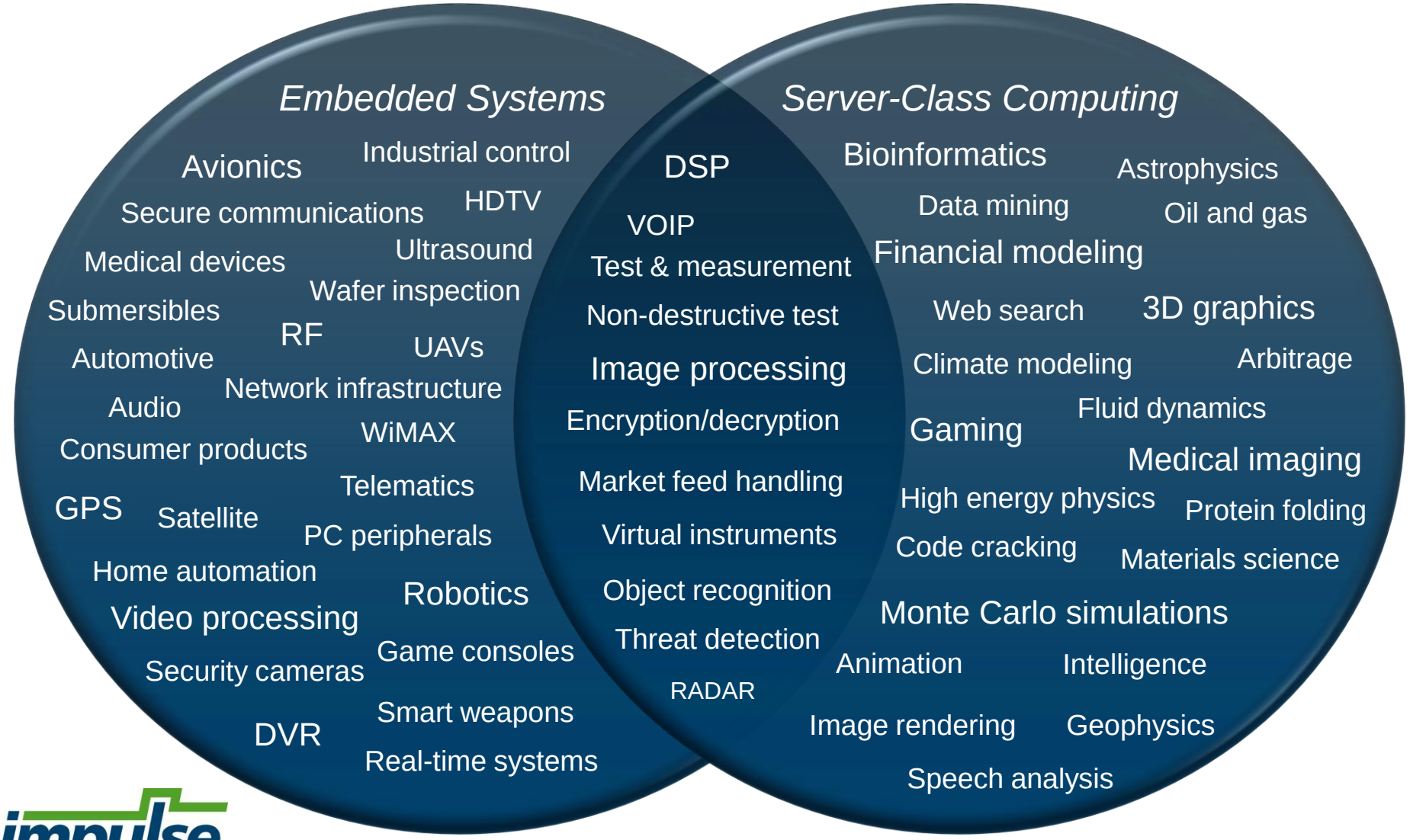
Francesco Ricci, Space Systems Developer
Xiphos Technologies, Inc.



Impulse CoDeveloper™

A Wide Variety of Applications

Commercial, defense and scientific applications….



Impulse Customers Include…