

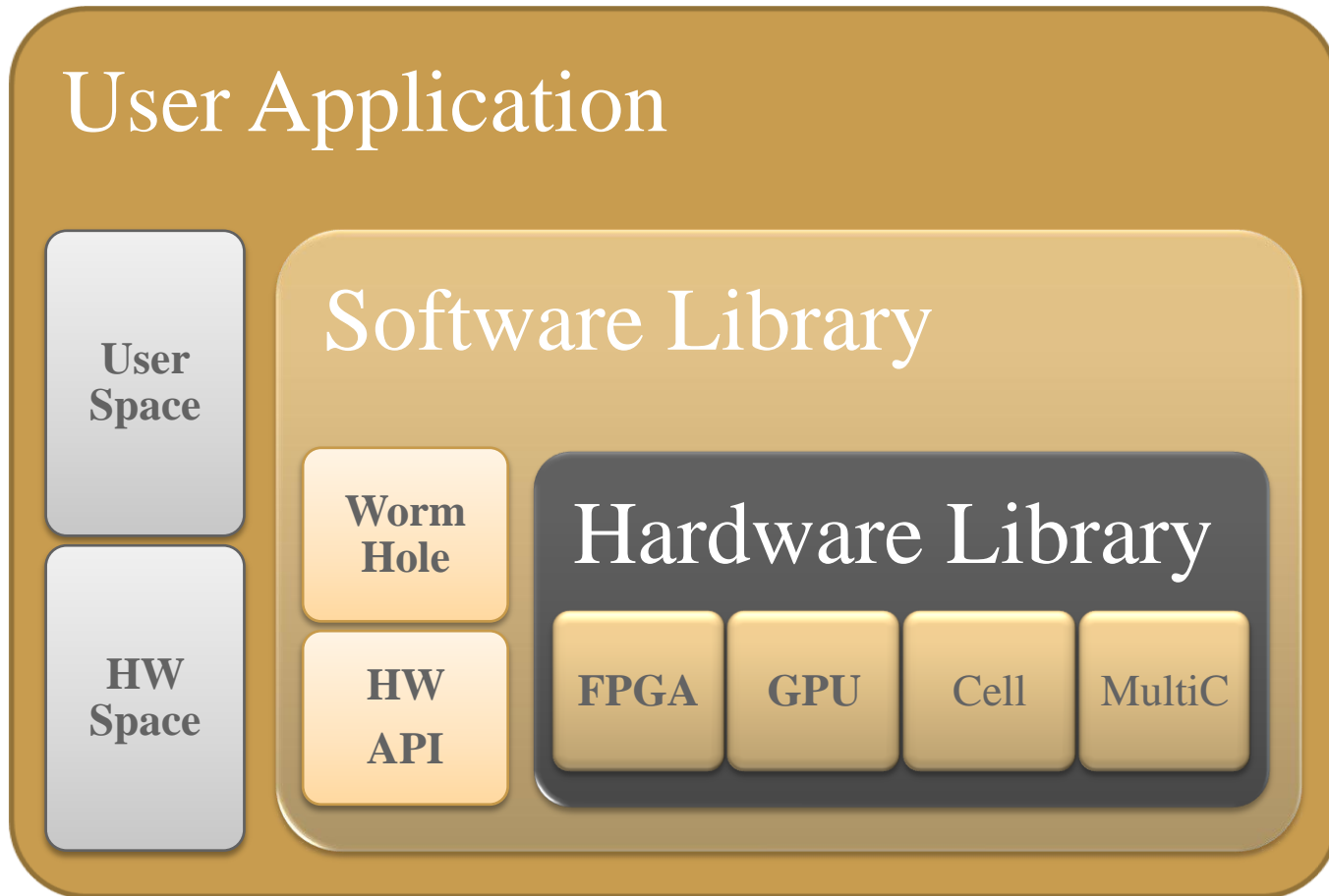
RSSI 2008
OptNgn Software
“Presentation”

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Software/Hardware User Viewpoint Stack



- Feasibility studies
- Benchmarking
- Prototyping
- Rollout of complete SW/HW Stack

■ HARDWARE LIBRARIES

- **Libhdlftp**: Open Source FPGA Floating Point Library
 - (+-, */ , sqrt, exp/log, sin/cos)(<http://libhdlftp.sourceforge.net>)
- **Libhdlfft**: 1D/2D Large FFT FPGA Floating Point Library
 - Status: Preliminary Data Sheet
- **Libhdlmc**: Statistics FPGA Library for Monte Carlo and Quasi Monte Carlo Simulations
 - Status: In Development

■ REFERENCE SOFTWARE APPLICATIONS

- **QuantLib**: Open Source Financial Engineering Library
- **FFTW**: Open Source Signal Processing Library

OptNgn Applications and Library Roadmap

High Performance Computing + Embedded

High Performance Computing Libraries

- Financial – QuantLib
- BioSciences
- Scientific - FFTW

Embedded Computing

- DSP
- Communications
- Crypto

Hardware
Math/Stat
Libraries

Applications
Hardware
Libraries

Hardware
CoProcessor
and
Multicore
Libraries

Output Code Targets

- Field Programmable Gate Array(FPGA)
- Graphics Processing Unit(GPU)
- Multi Core/Cell

Help!!!

- What is your favorite Software Applications Library ?
- Send info to me at: ajjc@optngn.com
- Talk to me at this conference.

- Thanks...and drop by our booth.