Software/Hardware User Viewpoint Stack

User Application

Software Library

Hardware Library

- FPGA
- GPU
- Cell
- MultiC
OptNgn Services

- Feasibility studies
- Benchmarking
- Prototyping
- Rollout of complete SW/HW Stack
HARDWARE LIBRARIES
- **Libhdlfltp**: Open Source FPGA Floating Point Library
- **Libhdlfft**: 1D/2D Large FFT FPGA Floating Point Library
  - Status: Preliminary Data Sheet
- **Libhdldmc**: 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

**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.