



NovaUCD

Technology Transfer Opportunity

ufxDesign Fixed Point Development Tools

OPPORTUNITY:

ufxDesign Fixed Point Development Tools.

Description of Technology:

ufxDesign Fixed-Point Development Tools accelerate and simplify implementation of fixed-point DSP systems, allowing accurate measurement of signal quality on target fixed-point platforms (e.g. DSP, RISC CPU, FPGA, ASIC...).

The toolset consists of 4 components:

- [1] Range Estimation Tool
- [2] C++ Template Library
- [3] Simulation Tool
- [4] Input Translator

Value Proposition:

The tools enable you to save on engineering effort required in porting designs from floating-point to DSP platforms.

They provide configuration models for easy simultaneous porting to multiple DSP architectures.

Market:

The market for fixed point design and optimisation tools is set to grow strongly as the size and complexity of DSP systems increases and FPGA devices become more affordable and achieve even greater processing power.

A key selling point of the tools is the fact that a single design cycle can lead to implementations on several different target devices.

Inventors:

Dr Neil Hurley and Dr Guenole Silvestre UCD School of Computer Science and Informatics.

Status:

- Patent application at advanced stage
- Commercially ready software suite.

Opportunity Sought:

Market Channel Partners.

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