

Silexica Demonstrates SLX FPGA Tool with New Xilinx Vitis Unified Software Platform

See the SLX FPGA demos with Vitis and Vivado HLS at Xilinx Developers Forum (XDF) 2019

San Jose, CA – October 1, 2019 – Silexica (silexica.com) announced today that they are demonstrating SLX FPGA with the new Xilinx Vitis Unified Software Platform announced today at the [Xilinx Developer Forum \(XDF\) 2019](#). SLX FPGA works in conjunction with the Xilinx Vivado HLS and will support the new Vitis platform to address the challenges associated with High-level Synthesis (HLS) design flow. As a Diamond Sponsor, Silexica will demonstrate SLX FPGA at the three forums: XDF Americas in Silicon Valley (US), XDF Europe in The Hague (NL) and XDF Asia held in Beijing (CN).

Maximizing Design Performance

Adopting an HLS methodology does present unique challenges that must be considered and overcome during the design process. SLX FPGA tackles the challenges associated with the HLS design flow including non-synthesizable C/C++ code, non-hardware aware C/C++ code, detecting application parallelism and where to insert pragmas to help software engineers prepare and optimize their C/C++ application code for HLS. SLX FPGA delivers an average of 35X performance improvement with automatic HLS pragma insertion compared to no HLS pragmas. In addition, SLX FPGA helps to enable software developers to save months of development effort by performing:

- Guided and automatic refactoring of non-synthesizable code written in C/C++ code
- Detecting C/C++ code that can be executed in parallel to optimize performance
- Automatic insertion of optimized pragmas to guide the Vivado HLS compiler and in the future Vitis HLS Compiler

“Silexica is excited to be an early access partner to Xilinx Vitis Unified Software Platform,” said Maximillian Odendahl, CEO at Silexica. “Using the current Xilinx Vivado HLS or the new Xilinx Vitis Unified Software Platform with Silexica’s advanced C/C++ analysis, SLX FPGA provides unmatched insights into application code to help Xilinx customers maximize their design performance.”

Visit Silexica at all three forums: [XDF Americas](#) (Oct. 1-2) in Silicon Valley (US), [XDF Europe](#) (Nov. 12-13) in The Hague (NL), and [XDF China](#) (Dec. 3-4) in Beijing (CN). Please contact us to arrange a meeting or click [here](#).

More information about XDF is available at: <https://www.xilinx.com/xdp>. For additional updates from XDF, follow Xilinx on Twitter at @XilinxInc or via the hashtag #XDF2019.

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About Silexica

Silexica provides software development solutions that enable technology companies to take intelligent products from concept to deployment by mastering state-of-the-art computing at the edge. The SLX programming tools analyze how software runs on heterogeneous compute platforms and provide deep system understanding for the developer.

Silexica was founded in 2014 and has so far received \$28million in funding. With its headquarters in Germany and offices in the US and Japan, a team of world-leading software engineers support markets including automotive & ADAS, aerospace & defense, 5G wireless, robotics and other rapidly transforming industries.