The folks at Mentor Graphics say that their Precision Synthesis family of products supports Altera Corporation's 40 nanometer (nm) Stratix IV GT and Arria II GX field programmable gate arrays (FPGAs).

The Stratix IV GT and Arria II GX FPGAs expand Altera's family of transceiver FPGA solutions to address a wide range of applications. Mentor Graphics Precision Synthesis product offers immediate synthesis support for Stratix IV GT and Arria II GX FPGAs, allowing customers to leverage Altera's latest transceiver technology and quickly achieve design closure.

Stratix IV GT and Arria II GX FPGAs feature integrated high-speed transceivers that are well-suited for a variety of applications, such as communications systems, high-end test equipment, and military communications equipment. Altera and Mentor Graphics continue to work closely together to ensure comprehensive design synthesis support for Altera's latest state-of-the-art technology. Mentor's Precision Synthesis support for these devices is available to customers now.

**Precision Synthesis: The centerpiece of Mentor's FPGA flow**
The Precision Synthesis tool forms the centerpiece of the Mentor Graphics FPGA flow - which is claimed to be the industry's most comprehensive vendor-independent solution for FPGA design.

Precision Synthesis is said to be the only synthesis tool which offers true push-button, multi-vendor physical synthesis for achieving the best quality of results. With comprehensive language support, including SystemVerilog, advanced ASIC prototyping flow and automatic incremental synthesis, the Precision Synthesis tool is uniquely suited to handle today's high-end FPGAs.

The Precision Synthesis tool features sophisticated design analysis capabilities, allowing designers to cross-probe between multiple views as well as perform interactive static timing "what-if" analyses. The Precision Synthesis tool is claimed to reduce design iterations, and enables faster, more predictable completion of designs, while delivering high quality of results.