



Extreme DA Launches GoldTime With ThreadWave Technology: New-Generation Timing Analysis for Full Chip Sign-off

Patent-pending ThreadWave technology delivers breakthrough in analysis speed and capacity

Palo Alto, Calif. — May 29, 2007 — Extreme DA™ announced a new-generation timing analysis solution, GoldTime™, for performance sign-off of integrated circuit (IC) designs manufactured in advanced nanometer (nm) processes. With its unique, patent-pending ThreadWave™ technology, GoldTime delivers 5X better speed and capacity over popular solutions in use today. Extreme DA is the emerging leader in new-generation timing analysis software that improves the performance and yield of integrated circuits (ICs). (See <http://www.extreme-da.com> for today's news on the adoption of GoldTime by Coherent Logix for timing sign-off of its new HyperX digital signal processor.)

Because of the size and complexity of ICs manufactured today in 90-nm and lower semiconductor processes, existing timing analysis products exhibit poor analysis run-times and require expensive 64-bit workstations with ten's of gigabytes of memory. Analysis runs that take more than a single day stall design improvement and optimization efforts, lengthen the design cycle, and raise development costs for new products.

GoldTime ThreadWave technology delivers breakthroughs in speed and capacity for the most complex IC designs and makes traditional multi-corner analysis run dramatically faster. ThreadWave provides several unique benefits for full-chip analysis:

- Analysis proceeds along a virtual wavefront through the design, and capacity requirements grow sub-linearly with an increase in design size. As only the wavefront consumes system memory, GoldTime with ThreadWave technology can analyze the largest flat designs.
- Through fine-grain multi-threading, a single timing analysis can run in parallel on multiprocessor and multicore workstations, such as the Intel Xeon and AMD Opteron, to dramatically improve analysis times.
- Coarse-grain multi-threading enables simultaneous multi-mode and multi-corner analysis. This efficient use of processing resources and a small memory footprint means faster completion of analysis.

Other solutions in the marketplace offer only simple distributions of processes and require substantially more workstation memory to handle concurrent analyses

Benefits and Features of Extreme DA GoldTime with ThreadWave Technology

- On a single CPU workstation, GoldTime demonstrates 5X better speed and capacity than current timing analyzers. On multi-processor workstations, the speed improvement scales with the number of processors.
- In just a few hours, post-route analysis of designs exceeding 100 million gates in size can be completed. This enables quick design improvement and optimization.
- Signal-integrity analysis of flat designs that considers interconnect coupling effects that would overwhelm other analyzers is now practical with GoldTime.
- Expensive 64-bit workstations, fully loaded with gigabytes of memory, are not required to run analysis with GoldTime.

GoldTime is a full-featured, PT-compatible timing analysis solution that delivers sign-off-level accuracy. Engineered for easy adoption within existing design tool flows, GoldTime accepts all standard data files and produces reports in their standard formats.

GoldTime performs variation-aware timing analysis when combined with the statistical characterization and extraction features of the Extreme DA Gold sign-off platform. Yield of designs before tape-out can be determined, eliminating unnecessary pessimism or guardbanding. This, plus the fast design optimization and early fixes to variability problems, are the major benefits of GoldTime statistical analysis. And, a designer can move at his or her own pace from traditional timing analysis to statistical and parametric analysis using GoldTime.

Mustafa Celik, CEO of Extreme DA, said, "After engaging with design teams on three continents, it is clear there is a critical business need for a new-generation timing analysis solution. Fabless semiconductor firms see the economic advantages of greater speed and capacity for timing analysis with GoldTime. With the Extreme GoldTime platform, integrated device manufacturers (IDMs) already have the leading statistical analysis solution for

investigating variability in design performance before committing to manufacture. Our message is clear: We are ready with a new-generation timing sign-off solution.”

Availability and Pricing

GoldTime will be available Q3 2007 for Linux based PCs in 32-bit and 64-bit version. Pricing depends on configuration. Contact Extreme-DA at info@extreme-da.com for more information.

About Extreme DA

Headquartered in Palo Alto, Calif., venture-funded Extreme DA develops and licenses software products to improve the performance and yield of nanometer integrated circuits. The company’s investors include Foundation Capital, IT-Farm Corporation, and Lanza techVentures. For the latest news and information on Extreme DA, visit www.extreme-da.com or write to info@extreme-da.com.

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