



INCHRON TOOL-SUITE

Master dynamic behavior of embedded systems

- Model driven systems development with focus on timing
- Manage real-time requirements - and risks
- Combine simulation and analysis for precise system know-how and safety
- Master complexity of networked, distributed systems and multi-cores
- Optimize system and software architectures
- Discover, analyze and eliminate system timing problems – early



INCHRON Tool-Suite

Simulative and analytical approaches are equally important for the design of complex embedded systems. The simulation enables to understand in depth the dynamic behavior, while the analysis allows obtaining the guaranteed response times of the system.

The INCHRON Tool-Suite is the only solution worldwide that combines the unique real-time simulation of chronSIM with the unmatched mathematical timing analysis capabilities of chronVAL.



CHRONSIM™

Simulation of dynamic, real-time critical embedded systems

- Model based system design with simulation and analysis in all design phases
- Define and monitor real-time criteria, for CPUs locally and systems globally
- Monitor system performance and resource load of CPUs and busses
- Model systems in UML, XML, C or 3rd party tools

CHRONVAL™

Validation of real-time critical embedded systems

- Design robust system architectures with optimal use of resources
- Determine best- and worst-case: end-to-end timings, task suspensions, bus and CPU loads
- Verify real-time compliance with cutting-edge mathematical algorithms
- Identify timing bottlenecks in complex systems

CHRONVIEW™

Visualization and analysis of recorded timing traces

- Import timing data from chronSIM or custom data sources
- Perform same in depth timing analysis and reporting as chronSIM and chronVAL

CHRONBUS™

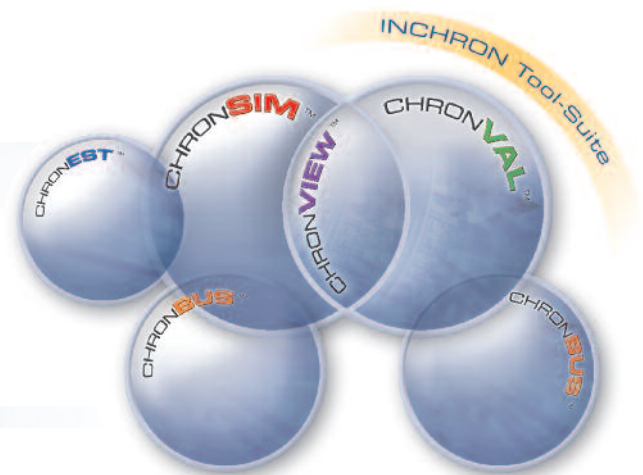
Add-on module (chronSIM/chronVAL) for residual bus simulation and analysis

- Simulate bus communication with dynamic timing and bus loads
- Extensively analyze the bus per message-ID with html-report

CHRONEST™

Add-on (chronSIM) for target code execution time prediction

- Utilize processor models considering hardware, operating system and compiler
- Execute target code on chronSIM virtual prototype



THINK REAL-TIME

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