GE
Intelligent Platforms

AXISView

Integrated Graphical Tools for Multiprocessor Software Development

Features

- Intuitive, easy-to-use graphical tools providing visualization of multicore and multiprocessor systems.
- Fully integrated tools minimizing time from development to deployment
- Maximizes performance through interactive monitoring
- Applications can be seamlessly scaled from one to many processor cores across multicore and multiprocessor systems.
- Provides automatic code generation for AXISFlow configuration code and an application template.
- Allows application bugs to be quickly identified and diagnosed
- Support across high performance architectures including PowerPC®, Intel® and NVIDIA GPU® multicore processors.
- Provides graphical interface to Built-In Test (BIT) software.
- Support for Microsoft® Windows® and Linux® based host platforms

Maximizing system performance and minimizing time to deployment of embedded real-time multiprocessor applications

AXISView is a suite of integrated graphical tools designed for complex multiprocessor systems. It provides system visualization with the ability to configure, download, run, debug and monitor a multiprocessor application from an integrated, intuitive GUI environment. It also provides a level of code generation to automatically create configuration code and application templates.

AXISView tools

- *ConsoleView* provides a convenient tool for managing multiple consoles for multiple processors. Allows common commands to be targeted to all processor in a system, or sub-groups of the multiple processors. In addition to this, the AXISrun tool provides the ability to download and run multiple applications across multiple processors with just two mouse-button clicks.

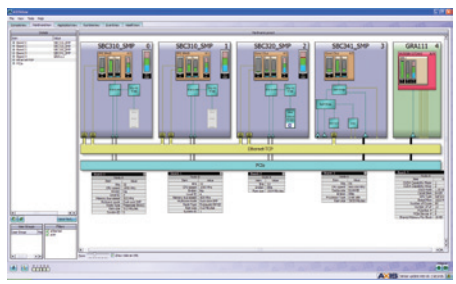
- *HardwareView* builds a graphical representation of the multiprocessor subsystem, and displays information about the system configuration. This gives the developer both static and dynamic information to ensure all aspects of the system are configured and connected correctly.

- *ApplicationView* provides a clear graphical representation of the application. It will auto-generate AXISFlow configuration code and develop a template for the initialization of the application. It allows the developer to build up a description of the system tasks, associated communication channels and apply a processor mapping.

- *EventView* is a true multiprocessor event analyzer ensuring event traces are accurately time-aligned. It allows the developer to easily reference an event trace to a particular system task and processor.

- *RuntimeView* provides dynamic information on the CPU and memory usage at the application task level. Also, it provides information on the system data flow. This allows effective load balancing.

- *HealthView* tool displays BIT results for each system node once the operating system is started and AXISserver is running.



AXISView – Integrated Graphical Tools for Multiprocessor Software Development

AXISView - Features Summary

ConsoleView
- Allows management of multiple consoles
- Ability to arrange, sort and re-size console windows
- Can create multiple console groups
- Allows commands to be directed at multiple processor

HardwareView
- Provides CPU and memory usage monitoring
- Displays I/O modules
- Monitors board temperatures
- Shows interconnect topology
- Allows rapid identification of configuration problems
- Provides visualization of the multiprocessor system

ApplicationView
- UP, AMP and SMP multi-core support
- Provides graphical tool for building multiprocessor applications
- Allows rapid prototyping
- Enables rapid application re-scaling
- Auto-generates AXISFlow configuration code

EventView
- Allows instrumentation of code for performance analysis
- Provides a simple to use and efficient API
- Utilizes a common system clock for accurate time alignment of traces
- Delivers 'multiprocessor savvy' GUI view tool

RuntimeView
- UP, AMP and SMP multi-core support
- Allows application performance analysis
- Enables rapid identification of bottlenecks

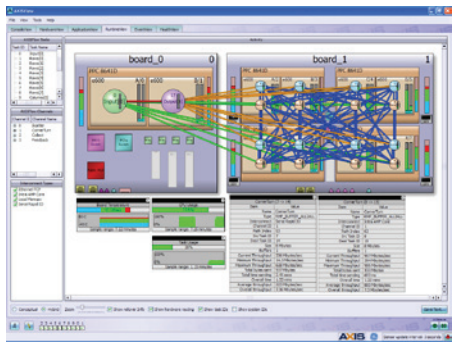
AXISrun
- Multiprocessor load and run tool
- Allows multiple applications to be downloaded and run with two mouse clicks

HealthView
- Allows viewing of BIT results in GUI for each system node once the operating system is started and AXISserver is running.
- Allows view and control of BCS tests running on the platform.

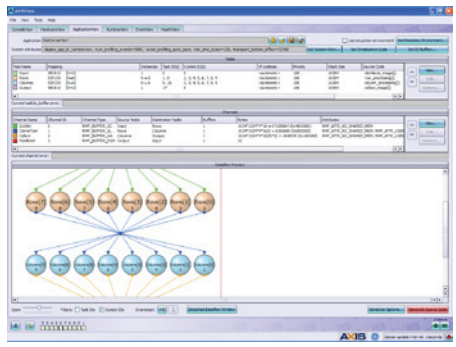
*Contact factory for compatibility with GE intelligent Platforms products and operating systems.

AXIS Multicomputer Open Architecture, COTS Multiprocessor Solutions
Customer Application
AXIS Advanced Multiprocessor Intergrated Software
Universal interface Layer (UIL)
Board Support Package (BSP)
Built-in-Test (Configurable POST)
I/O, SBCs, Multiprocessors, Fabric Switch

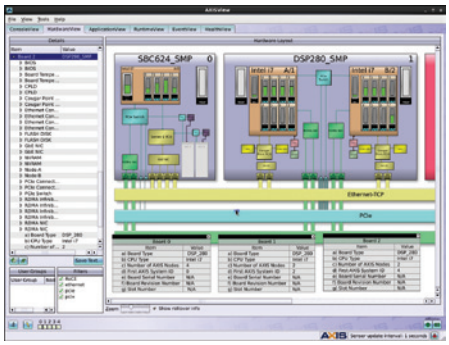
Sample Screenshots



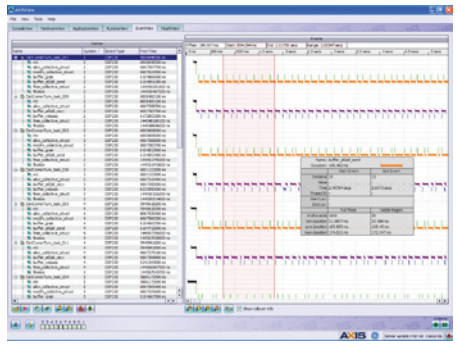
RuntimeView Screen



ApplicationView Screen



HardwareView Screen



EventView Screen

Ordering Information

AXISVIEW-01M	AXISView tool suite 1 year license and maintenance. Annually renewable.
AXISPRO-01M	AXISView tool suite and AXISFlow communication library bundle. 1 year license and maintenance. Annually renewable. (Note: AXISFlow run-time license required)

About GE Intelligent Platforms

GE Intelligent Platforms is a division of GE that offers software, control systems, services, and expertise in automation and embedded computing. We offer a unique foundation of agile and reliable technology providing customers a sustainable competitive advantage in the industries they serve, including energy, water, consumer packaged goods, oil and gas, government and defense, and telecommunications. GE Intelligent Platforms is headquartered in Charlottesville, VA. For more information, visit www.ge-ip.com.

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