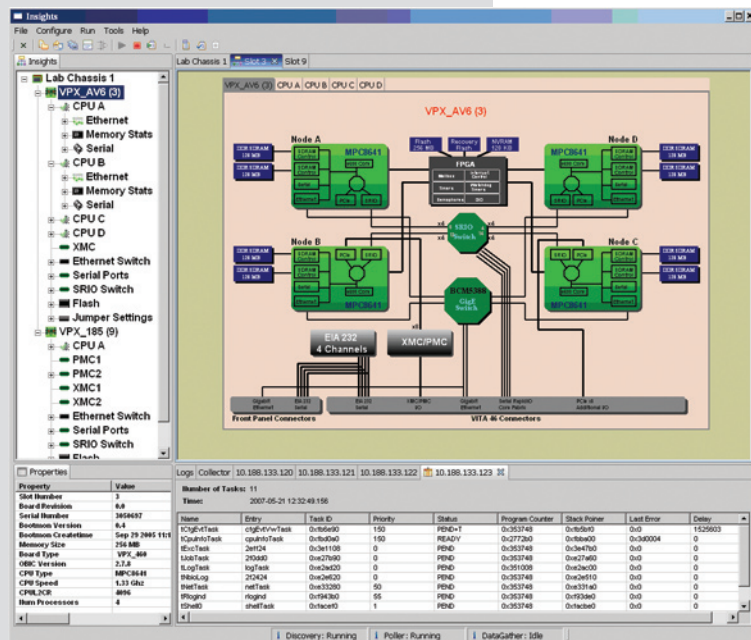# Continuum Insights

For CHAMP-AV6 (VPX6-460) & VPX6-185

continuum
INSIGHTS

Curtiss-Wright Controls Embedded Computing's Continuum Insights is a complete suite of Graphical User Interface (GUI) software aimed at increasing application development productivity and maximizing the performance of the total multicomputer system.

Curtiss-Wright recognizes the complexities our customers face in building applications spanning multiple processors and cores. Designed to support systems ranging from a few to hundreds of processors/cores, Continuum Insights enables application programmers greater visibility into the entire system through the collection of critical, periodic, non-intrusive, real-time data. Such information is presented in a GUI format in a hierarchical format enabling intuitive navigation to quickly find the source of potentially problematic areas within the system. Various levels of event information can also be displayed across processors and cores of the system, precisely time-aligned, allowing visualization and analysis of processor interactions. Continuum Insights aims to provide the level of information needed by developers of complex systems to accurately tune their system and ultimately speed time to market.

Continuum Insights furthers Curtiss-Wright's COTS Continuum strategy by harnessing the advantages of other Continuum products such as Continuum Firmware & BSP, Continuum Vector, and Continuum IPC. Continuum Insights is supported on the CHAMP-AV6 (VPX6-460) and VPX6-185.


For more information on our broad range of high-integrity computing solutions, please visit our website at **www.cwcembedded.com**.

CURTISS
WRIGHT **Controls**
Embedded Computing

Continuum Insights

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Continuum Insights, is based on the Eclipse™ Development and Application Framework, and innovatively provides developers of complex multi-processor-based computer systems with the information they need to accurately tune their system and speed their time to market. Continuum Insights improves the development environment for multi-core SBC and DSP engine systems using Curtiss-Wright boards and Wind River's Work-Bench. Continuum Insights expands upon WorkBench's System Viewer tool for event analysis in multi-processor systems, enabling the analysis of multiple multi-core processors, both on a single board and across multiple boards.
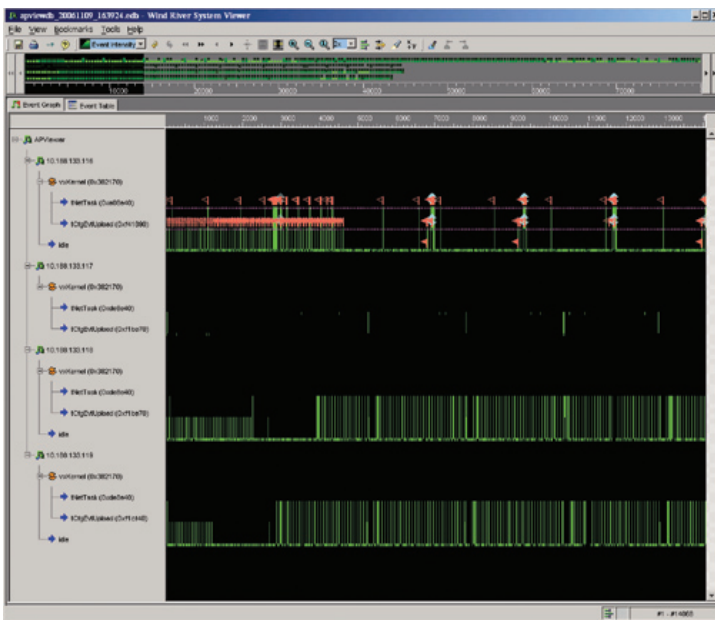
Continuum Insights is comprised of the following tools:

Event Analysis Tool collects and displays operating system level events, driver-level events, as well as user-defined events across multiple processors within a system, accurately time aligned using a common time-base. Event data is collected in real-time allowing developers to debug and verify critical interactions between tasks among multiple processors and cores.

System Monitoring Tool provides a hierarchical, graphical representation of a multi-computer system. System and health information are updated in real-time providing displays of processing threads, utilization, task allocations, and processor-level and system-level configuration information.

System Management Tool provides a means for managing the system across all processors and cores or a user-defined subset of processors and cores. This tool provides the ability to initialize and launch the multicomputer with a collected set of predefined kernels and/or executables. In addition, the tool provides the ability to manage flash in terms of uploading, downloading, and deletion of files on an individual card level or at the system level.

Continuum Insights Features	
Event Analysis Tool	- Uses a common time-base for accurate synchronization of event data across all processors - Ability to insert user-defined events around application code to fine tune your application and debug processor interactions - Scales to systems consisting of a few to hundreds of processing nodes
System Monitoring Tool	- Provides system level information such as card counts, types, and slot information - Provides Processor/Core information such as processor utilization, memory usage statistics, and running tasks - Easily monitor card level and system failures
System Management Tool	- Manage executable sets for defined sets of processors/cores - Launch/Suspend execution of all or set of processors/cores - Manage user-level flash