Validated Software Corporation

Press Release

Validated Software Announces Valid-653™ Operating System

Creates Affordable ARINC-653 Platform for Avionics and Mixed OS Environments

San Jose, CA, April 14, 2003 – Validated Software Corporation, the leader in affordable safety-critical software, today announced their Valid-653™ operating system, the industry's first affordable ARINC-653 OS platform for avionics and other safety-critical environments. This product promises to revolutionize the safety critical marketplace by providing embedded designers a flexible platform for running Memory Management Unit (MMU) – protected systems using an ARINC-653 specification on a wide variety of embedded processors. In addition each partition can run a separate operating system, making this ideal for mixed-OS environments.

There are three key features of this new product:

1. ***Complete ARINC-653 Implementation***. Valid-653™ is a complete implementation of the ARINC-653 Application Executive (APEX) specification, a standard for safety-critical avionics systems. Many RTOS vendors are now offering some level of ARINC-653 compatibility – Validated is delivering a complete ARINC-653 product written from the ground up using DO-178B Level A safety standards, and implementing 100% of the ARINC-653 specification natively.

2. ***Wide Processor Availability***. Validated expects to port this product to a wide variety of MMU-based microprocessors, not just the two or three most popular. "Embedded designers can now use this industry standard on the best silicon selection for their product", states Scott Nowell, President of Validated Software. "Developers can now pick the right price and performance silicon products and use a very flexible OS platform to satisfy their market demands." Validated will also port Valid-653™ to processors without an MMU to enable customers to use the same Application Programming Interface (API) across a wide spectrum of products.

3. ***Multiple Partitioned OS Support***. Valid-653™ will support the use of different APIs and operating systems in each MMU-controlled partition. Both commercial and in-house/proprietary OSes and APIs will be supported. This enables the use of legacy code or third party code mixed with newer code using any API desired. "Due to increasing software volume on embedded platforms, designers no longer have the luxury of re-writing code to a new API in new systems", states Nowell. "Valid-653™ will allow the mix of old and new code, trusted and untrusted code, mission-critical and "casual" code, all on the same robust platform." Validated will release Micro-653™, a complete implementation of Micrium's MicroC/OS-II on top of the Valid-653™ platform, later this year to demonstrate this multi-OS flexibility.

Validation Suites™ comprised of a complete set of RTCA or ED-12B DO-178B documentation will be available for both Valid-653™ and Micro-653™.

About ARINC
ARINC is a transportation communications and systems engineering company that provides solutions for aviation, airports, defense, government, and transportation industries. ARINC can be found on the web at www.arinc.com. The ARINC-653 APEX standard was developed by industry experts, and is widely used in the avionics industry. The ARINC-653 specification is available from at ARINC at www.arinc.com

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About DO-178B
The DO-178B standard was developed by a worldwide consortium of avionics manufacturers, including Boeing, Aerospatiale, British Aerospace, Honeywell, Pratt & Whitney, Rockwell-Collins, Smiths Industries and other avionics manufacturers. Complete information on this avionics specification can be found at www.rtca.org and www.eurocae.org. In addition, an introductory FAQ to safety certification can be found at www.ValidatedSoftware.com/cert_faq.html.

About Validated Software
Validated Software Corporation provides FAA-, FDA-, and IEC-compliant Validation and Verification Suites for software components used in safety-critical systems. Validated also provides platform software, custom test suites and test solutions for proprietary software used in life-critical systems. Validated is on the web at www.ValidatedSoftware.com. Please contact Sales@ValidatedSoftware.com for more information about this exciting product line.

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