

# RAD750<sup>®</sup> space computers Virtutech Simics<sup>®</sup> virtual platform

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## FEATURES AND CAPABILITIES

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Virtutech Simics<sup>®</sup> provides a virtualized platform of the BAE Systems RAD750<sup>®</sup> hardware, designed specifically to support software development efforts. This full-system simulator includes the RAD750 microprocessor as well as the devices found on the RAD750 3U, 6U, and 6U extended boards.

Virtutech Simics provides a binary-compatible virtual instance of RAD750 hardware. This means that software compiled for a physical RAD750 processor can run on the Virtutech Simics virtual RAD750 simulator without modification. The virtual platform can be extended to include other components and modules of the spacecraft to support system testing and integration efforts as well.

By reducing project risks, the software helps ensure projects are finished on time and within budget. Fostering truly concurrent hardware and software development activities allows software development to occur long before physical hardware is available. Virtual prototypes can be built in Virtutech Simics to allow assessment of future hardware changes on the software.

Virtutech Simics software runs on typical laptops or PCs, allowing every developer access to the virtual target; significantly reducing challenges associated with sharing lab resources.

Highly scalable and affordable platform for embedded software testing and debugging

Every line of code can run within the simulator, including:

- Application code
- Real-time operating systems
- Device drivers
- Protocol stacks

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Rich application program interface

Application areas

- Software development
- Software testing
- System architecture
- Field operations
- System security

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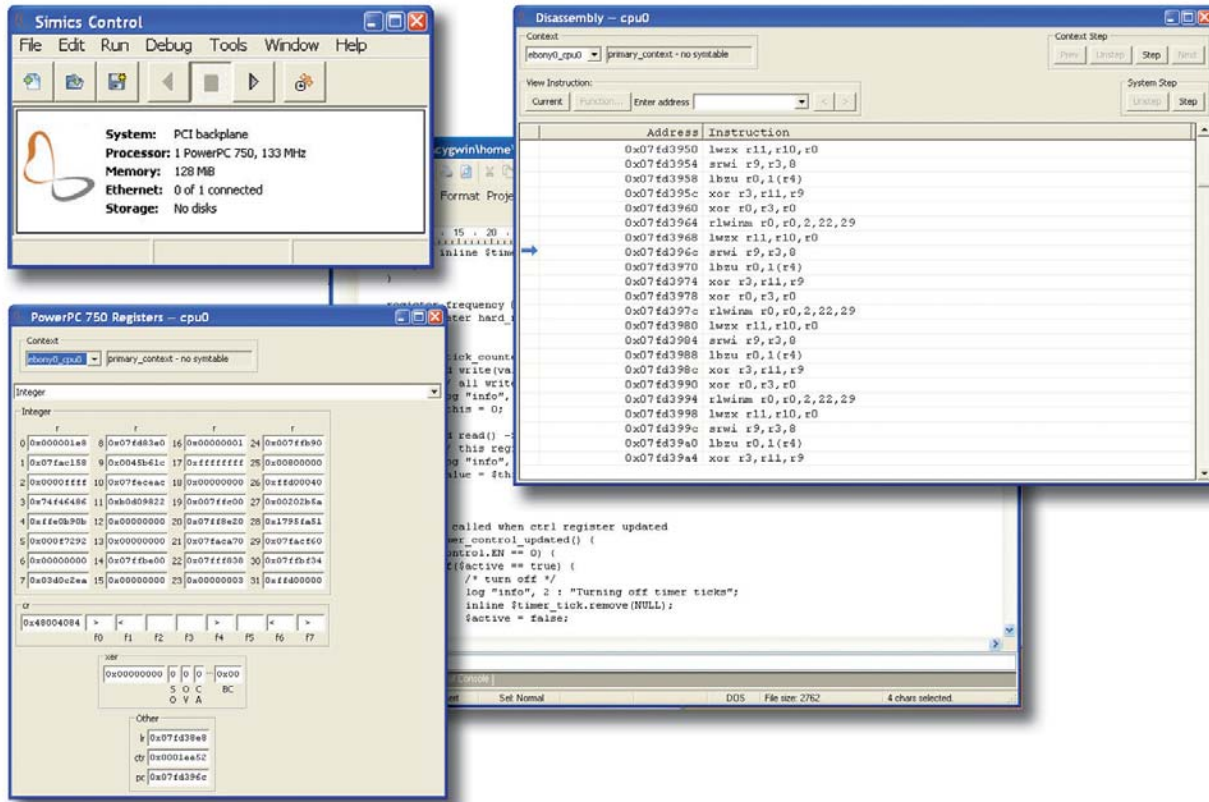
Users include:

- Low-level software developers
- Application developers
- System integration and test engineers
- Project managers

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Compatible with third-party IDEs and debuggers

**RAD750® SPACE COMPUTERS VIRTUTECH SIMICS VIRTUAL PLATFORM**



**RAD750® FAMILY OF PRODUCTS**

- RAD750® radiation-hardened PowerPC microprocessor
- RAD750® 6U CompactPCI single-board computer
- RAD750® 6U CompactPCI extended single-board computer

- RAD750® 3U CompactPCI single-board computer
- RAD750® space computers Virtutech Simics virtual platform
- RAD750® custom single-board computer

**FOR MORE INFORMATION, CONTACT:**

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