

SIMICS:

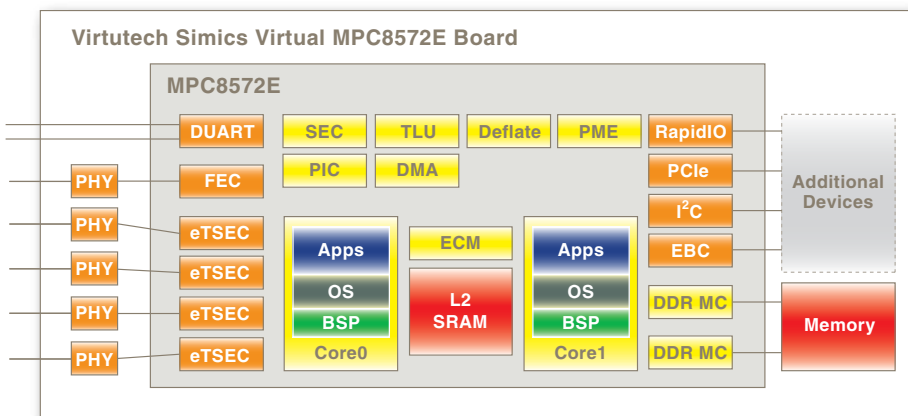
Freescale MPC8572E Virtual Platform

Virtutech Simics is a flexible and scalable software solution that models electronic systems with high performance and fidelity. Simics provides the means for corporations to improve their product development lifecycle from bring-up to deployment.

The Simics Freescale MPC8572E Virtual Platform lets you get started now with real software development and evaluation of the new Freescale MPC8572E SoC. This shortens the time-to-market for a system based on the MPC8572E and reduces the schedule risk and software development pressure for the final system. You can use the basic virtual development board initially, and then develop it into a customized model of your particular system.

You can quickly start the porting effort from previous generations of PowerQUICC III devices like the MPC8548.

MPC8572E System



With Simics debug, trace, and inspection capabilities resolving driver problems and multicore-related software issues is easy. In addition, reverse execution and the ability to save and later restore execution state makes Simics a superior debugging environment.

The Simics MPC8572E Virtual Platform can be networked with other instances of the same system, or with virtual systems based on other Freescale processors or processors from other vendors. Simics has been proven to handle systems consisting of hundreds of processors and tens of distinct networks, so you can model a complete system including the MPC8572E and evaluate its efficiency in a complete system context.

Simics MPC8572E

Simics MPC8572E At-a-Glance

- > Virtual platform available now!
- > Deterministic execution environment
- > Runs Linux and other RTOSes
- > User-extendible to model custom systems
- > Reduces your time-to-market

Key Uses

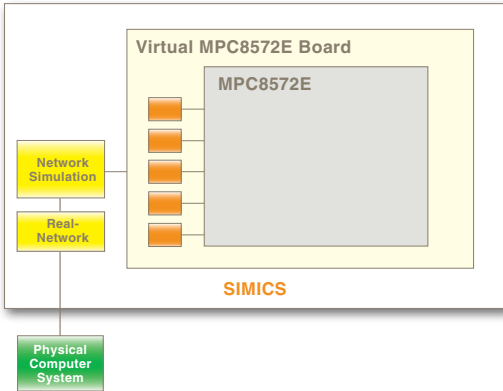
- > Evaluate the MPC8572E
- > Start porting your legacy code to an MPC8572E-based design
- > Quickly debug complex multicore problems in a deterministic environment
- > Set up and debug complex virtual networks

MPC8572E Virtual Platform Features

- > Dual e500v2 processor cores
- > Symmetric or asymmetric multiprocessing
- > Table-lookup unit (TLU)
- > Deflate engine
- > Pattern matching engine (PME)
- > Security engine (SEC)
- > eTSEC Ethernet controllers
- > RapidIO
- > PCI Express
- > External bus
- > I²C

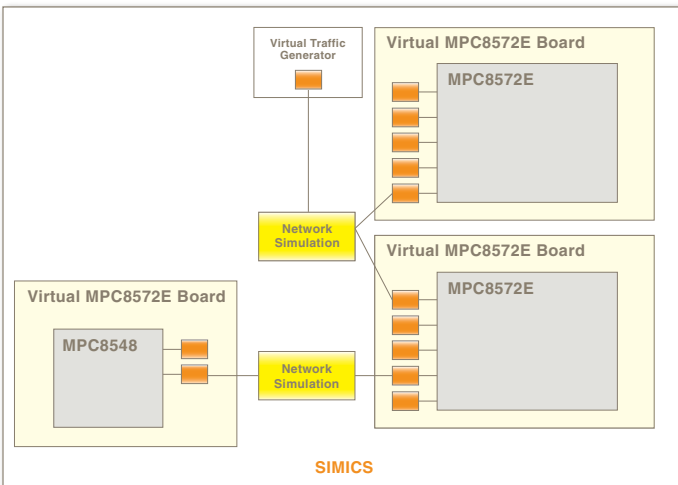


Usage Configurations for the Simics MPC8572E Virtual Platform



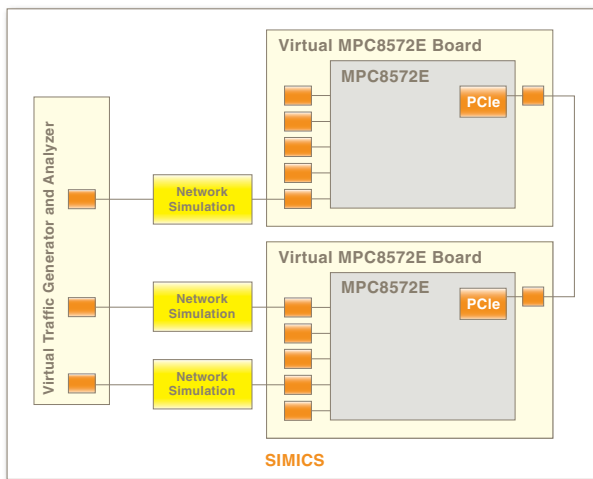
The MPC8572E Virtual Platform can be interfaced to the real-world network containing physical computers.

This lets you use existing network test equipment and network-connected development tools with the Virtual Platform.



The MPC8572E Virtual Platform used in a virtual network configuration with multiple boards of different types and a network traffic generator.

This is a common configuration when building several distinct network nodes based on the MPC8572E and other network-oriented chips and systems like the MPC8548.



The MPC8572E can also be set up in a configuration where several boards are connected using a PCI Express or RapidIO backplane. This is a typical case for ATCA and other rack-based systems.

In this particular case, we also have an intelligent network packet generator and analysis tool inside the virtual environment that tests the packet handling of the virtual boards.



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