NXP

freescale™

QorIQ

Fact Sheet

QorIQ Simulation

Overview

Freescale creates software simulators known as virtual platforms for QorIQ, QorIQ Qonverge and LS series processors that are designed for high performance software development and advanced use cases.

These virtual platforms are not replacements for boards and processors, but instead are designed for advanced use cases in which the silicon is inappropriate. Upon special request, these simulators can be made available within specific terms and guidelines to help customers solve very advanced engineering questions.

Features

- Modular C++ design with support for TLM2.0 Interoperability

- Functional simulator only, build for speed

- Accuracy added via TLM2 modeling style abstractions

- Support for co-simulation with SystemC models

- Quantam based simulator(s), threaded and ready for multicore

- Flexible I/O support via TLM and socket based interface

- Flexible integration points

- Rich peripheral library

- CPU library: e500mc, e5500, e6500, e200, StarCore, ARMv7 and ARMv8

- Note: ARM based simulation may require ARM Ltd FAST model license

Use cases:

- Software migration

- Software fault tolerance

- Co-simulation

- Analyze critical timing parameters

- Custom probe points

- Software development

For more detail see the features list the the left.

QorIQ Simulator
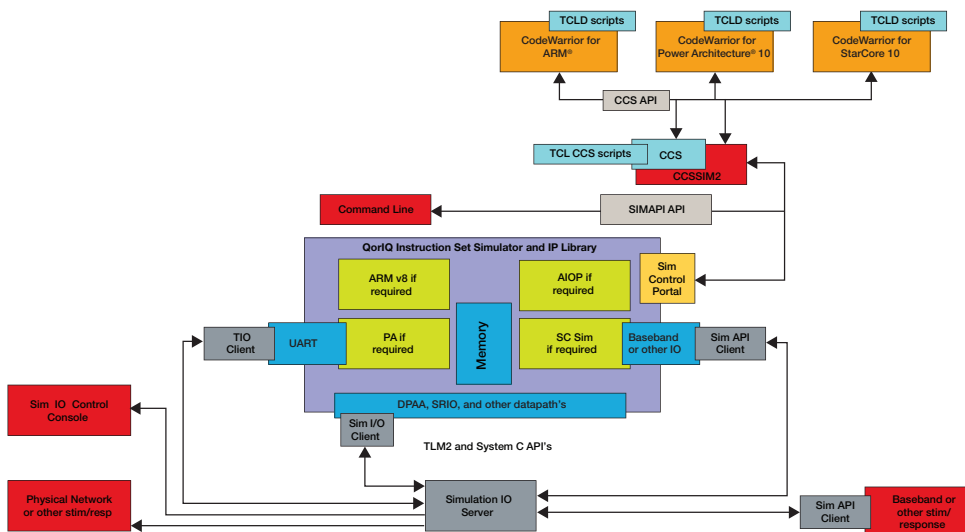
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