

PE_QORIQ_OPTI_SUITE: Processor Expert QorIQ Optimization Suite ☆

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The QorIQ Optimization Suite (QOS) is a suite of separate tools that help optimize your QorIQ application.

Rather than provide a single tool for each type of optimization task, Freescale provides a suite of separate tools that address a range of tasks. While the tools may be unconnected, their end goal is the same: increase the performance, decrease power consumption, or improve reliability of your system.

If you decide to evaluate or purchase the tools, simply [download and retrieve licenses](#) only for the tool(s) that interest you.

What's New

QorIQ Optimization Suite now has added a THIRD tool as part of its suite – price remains the same!

Features

- QOS is a collection of separate tools. The tools are :
 - DDR Validation Tool affectionately referred to as **DDRv**
 - **Scenarios Tool**
 - **DPAAPacket Tool**
- Pay one subscription and get access to ALL these software tools

Tool Descriptions

DDR Validation Tool

DDR Validation Tool (**DDRv**) runs exhaustive DDR memory tests while varying important variables like clock timing. After running the exhaustive tests and creating a large matrix of values, a "best" setting can be ascertained. Don't just settle for settings that work in your lab, use **DDRv** to find a setting that gives you the most margin possible.

Scenarios Tool

Scenarios Tool provides access to the counters inside the QorIQ CPU's and the QorIQ SoC's incredible debug logic placed on select QorIQ processors. Analyze system level performance and see at a glance how your system is working. Metrics such as DDR Traffic, DMA Performance, Cache hits/misses, and many, many more can be applied with the click of a button. By using Freescale TAPs you can take the measurements without changing any source code.

DPAAPacket Tool

The **Processor Expert QorIQ Packet Tools** help you increase your communication system's performance by giving you visibility into sophisticated hardware packet acceleration circuitry.

The **Packet Analysis Tool** allows users to collect DPAA(Frame Manager, Queue Manager) data in order to debug and analyze the behavior of selected QorIQ devices, at the DPAA level. The tool provides this visibility by utilizing the same concept as the Processor Expert QorIQ Scenarios Tool 2.0: "measurement scenarios"

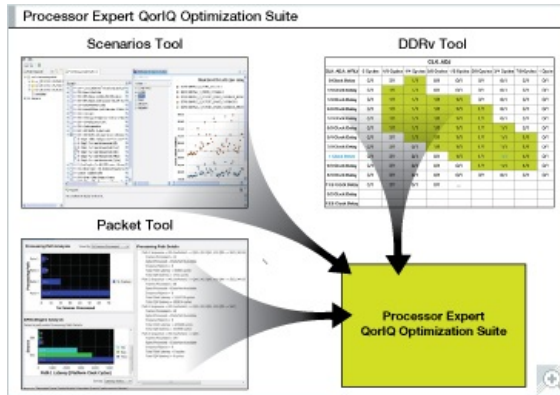
System Requirements

- Host computer system requirements
 - See each individual tool's web pages for precise requirements.
- Target system requirements
 - Compatible QorIQ Device (See "Supported Devices" in each tool's web page)
 - Connection Method (you only need one of these)
 - Freescale [CodeWarrior Tap](#)
 - Additionally – depending upon the tool, additional connection methods may be available.

Related Software and Tools

- [CW_TAP](#): CodeWarrior TAP
- [P1010RDB](#): P1010 QorIQ Reference Design Board
- [P1020RDB](#): P1020/P1011 QorIQ Reference Design System

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Featured Documentation

[QIQOPTMZTOOLS](#): Processor Expert Software: QorIQ Optimization Suite - Fact Sheet

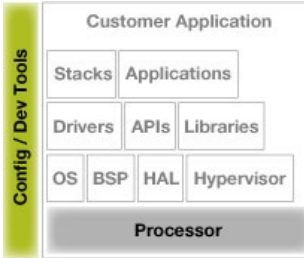
Current Updates and Releases

- [PE_QORIQ_SCENT](#): Processor Expert QorIQ Scenarios Tool
- [PE_QORIQ_DDRV](#): Processor Expert Double Data Rate RAM Memory Validation (DDRv)
- [PE_QORIQ_DPAA_PACKET](#): Processor Expert QorIQ Packet Analysis Tool

Support Policy

- Online help and documentation
- Includes 12-months of technical support
- Free 30-day evaluation license available

This Software Includes



Featured Videos

- [DDR Validation Tool Demo](#) (04:37 min)
- [QorIQ Optimization Suite - Scenarios Tool](#) (04:59 min)

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