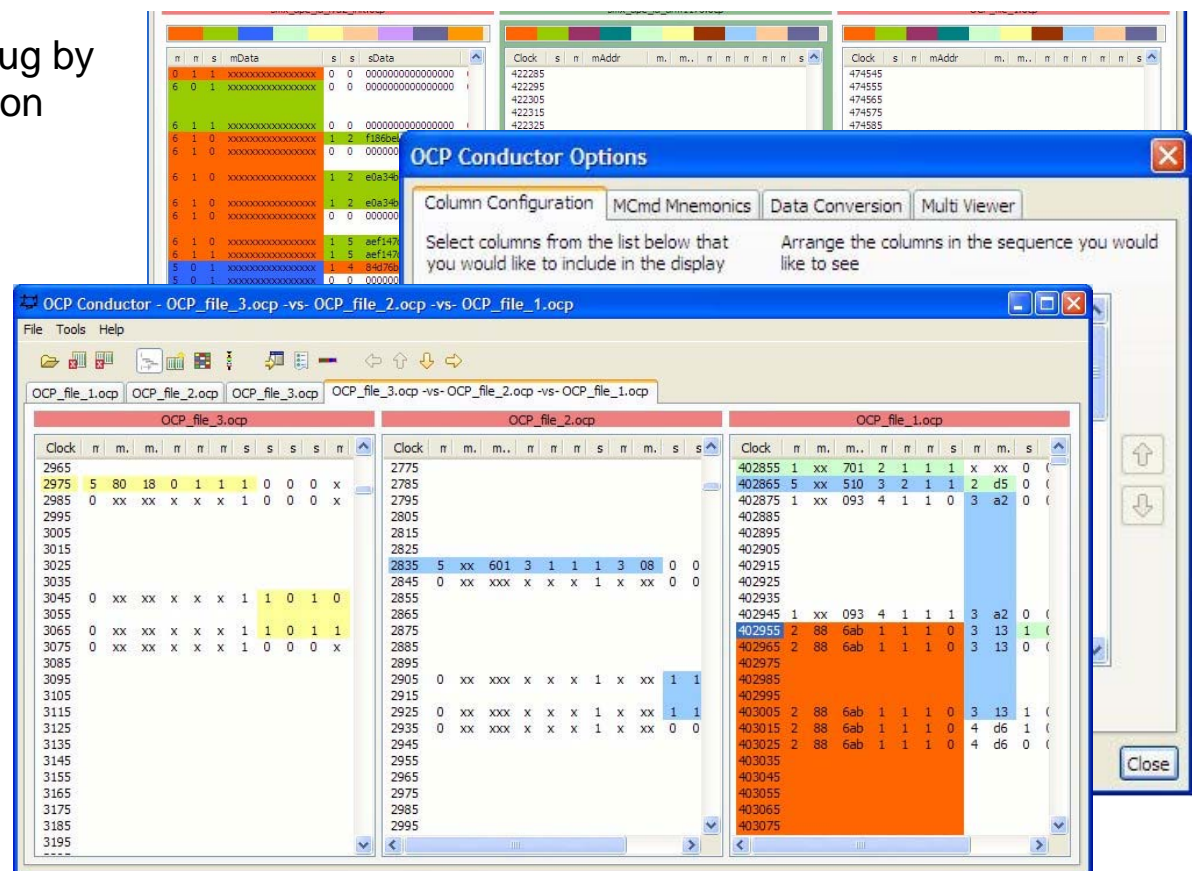# OCP Conductor

Simplify OCP Transaction Analysis

OCP CONDUCTOR is an innovative, detailed OCP transaction viewer that allows very granular analysis of bus transactions. A complete transaction sequence can be traced from request to response along with a host of related information about the transaction, permitting instant, high-level OCP transaction analysis For any OCP based SOC development OCP Conductor instantly enhances OCP transaction analysis and debug by providing high-level information instantly to the user.

OCP Conductor is an OCP bus port transaction viewer and debugger, offering detailed transaction highlighting and analysis for SoC OCP interfaces. The tool permits intuitive visualisation of OCP transaction activity, provides functionality for searching for transactions by type, thread, latency and bus occupancy and incorporates a synchronised multi-file viewer.

OCP conductor converts low-level, simulation output of OCP trace signalling into a high-level, intuitive transaction representation, giving the user instant awareness and understanding of OCP transaction dynamics. Designed to handle the most advanced multi-threading environment, it provides powerful unique analysis of every type of OCP transactions.

Highlights

- Automated transaction highlighting and browsing
- Get instant abstraction of OCP signalling into a high-level format to allow enhanced OCP debugging
- Provides rapid identification of bottlenecks in the system
- Promotes rapid prototyping of new SoC Architectures
- Conversion of interpretations of OCP signalling into a more intuitive format

- Simultaneous side-by-side debug of multiple OCP ports with multi-file viewer
- Multi-threaded, interleaved OCP transactions easily debugged
- Increased quality checks with on- the- y performance metrics
- Non-Disruptive deployment within your existing design flows
- Available in several licensing options
- Runs on Windows, Linux and Solaris

Key Features

Transaction Analysis
- Interactive Transaction Highlighter shows all transfers in a transaction (e.g. request, handshakes and responses)
- Transaction Painter differentiates transactions in a trace file and these are qualified by a transaction legend
- Transaction Phase Viewer, including critical latency, bytes transferred, accept latency and burst type
- Mnemonics used to interpret and visualise OCP data e.g. mCmd and transaction legend
- In-table data conversion, including binary, octal, decimal, and hexadecimal
- Advanced search capability including text-based and transaction based search

TMulti-File Viewer
- View multiple files at same time.
- Synchronised scroll lock between files
- Configuration options including, column configuration, mnemonics configurations, conversion options and general tool viewer options

Trace Statistics
- OCP conductor provides a wide range of statistics including number of requests, handshakes, responses and transactions by type and also number of transactions of a particular type in a trace file
- Critical word latency for each phase of each transaction is available in a an easy to view transaction dialog

Supported OCP versions
- OCP conductor
- OCP 1.0
- OCP 2.0
- OCP 2.1*
- OCP 2.2*

OCP (Open Core Protocol) is a standards-based, embedded-bus interface and multi-core IP integration protocol defined by the OCP-IP industry consortium.   For OCP based systems, integration and deterministic performance analysis is often a key enabler for getting products to market quickly.   Tools such as OCP CONDUCTOR enable smoother system integration and transaction-level debug.

Duolog Technologies - The Collaborative Design Automation Company™. Founded in 1999, Duolog Technologies, The Collaborative Design Automation™ Company, is a pioneering developer of groundbreaking EDA tools that enable the flawless and rapid integration of today's increasingly complex SoC, ASIC and FPGA designs. Duolog's Socrates Chip Integration Platform enables IC designs that are Perfect By Construction™