Overview
For hardware and software design debugging, bare-metal software and validation engineers require access to processors emulated in the Cadence Palladium XP or XP II platform. Most processors provide on-chip debug access via a Joint Test Action Group (JTAG) connection scheme. JTAG is an IEEE 1149.1-1990 standard for on-chip instrumentation using a dedicated serial communications interface for low-overhead access without requiring direct access to the system address and data buses.

Software debuggers, such as Lauterbach Trace32, provide the ability to access JTAG-enabled processors to perform debugging with capabilities such as single-step, read/write memory, read/write CPU registers, set breakpoints, and triggering.

Virtual JTAG interface
Cadence’s Virtual JTAG interface provides a “soft,” no-physical-connection-required interface between the Cadence® Palladium® XP or XP II Verification Computing Platform and Lauterbach’s Trace32 software debugger, enabling designers to remotely debug JTAG-enabled processors.

Benefits
- Access designs in any hardware domain
- No hardware accessory needed for JTAG access
- Remotely accessible—connect from any remote workstation
- Enables more software engineers to debug their designs remotely
Virtual JTAG Debug Interface

Features

- Soft (virtual) debug interface from JTAG-compatible processor running in Palladium XP or XPII Verification Computing Platform to Lauterbach Trace32 debugger
- Unified Xccelerator Emulator (UXE) IXCOM-based flow
- Transaction-based acceleration (TBA), in-circuit acceleration modes

Licensing

- One license per single Palladium job with any number of processors and cores
- To debug n parallel jobs, n licenses are required

Software Support

- Cadence: UXE, Cadence Incisive® Enterprise Simulator
- Lauterbach: Trace32

Ordering

- Product number: 39HUVJTAG4, 4-pack license

Cadence Services and Support

- Cadence application engineers can answer your technical questions by telephone, email, or Internet. They can also provide technical assistance and custom training.
- Cadence certified instructors teach more than 70 courses and bring their real-world experience into the classroom
- More than 25 Internet Learning Series (ILS) online courses allow you the flexibility of training at your own computer via the Internet
- Cadence Online Support gives you 24x7 online access to a knowledgebase of the latest solutions, technical documentation, software downloads, and more

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