

Overview

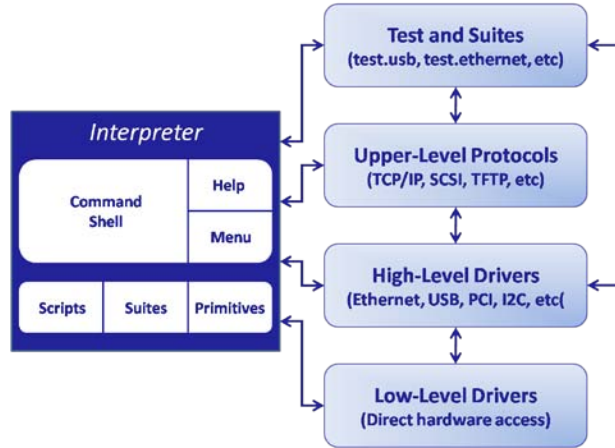
For designers of 32-bit embedded systems who must deliver high quality quickly and at low cost, Koizio's kDiagnostics® Design Suite is a comprehensive, configurable, and cost-effective validation suite that provides an extensible and reusable solution.

For users seeking even greater levels of customization and extensibility, Koizio provides the Design Suite Pro option to the flagship kDiagnostics Design Suite. This option comprises a full package of tools, libraries, source header files and documentation that allow you to extend the capabilities of Koizio's diagnostic software applications by building your own custom source code test routines, and compiling customized kDiagnostics binaries.

Using this framework, users quickly extend the power of Koizio's comprehensive test suites by taking advantage of an effective and optimized API. The installation process is quick and simple, and once complete, you can execute the GNU *make* command to quickly build your own executable. The default build creates an executable with no modifications required, delivering the default Koizio application ready to run on your custom hardware platform. By using the established platform framework, you can also quickly add your own custom tests and C-language functions.

kDiagnostics Design Suite

The full Koizio solution is a suite of software tools for board diagnostics, design validation and board bring-up, binary image downloading, in-system programming, automated board testing, and power-on self-test. The Koizio architecture has two main components: a target diagnostics application and one or more host applications. SequenceRunner™ and SequenceReporter™ comprise the



test automation tools, which provide “scan it; program it; test it; track it” for manufacturing end-of-line testing

Features

- kDiagnostics Design Suite Pro includes a complete GNU toolset and build environment compatible with the kDiagnostics libraries, with which you can compile and link your custom C source code modules
- Delivered with Koizio software libraries providing access to hundreds of routines for initializing, configuring and quickly working with most hardware components on your embedded system computer board. You can extend these to add support for your custom logic, FPGA and ASIC devices, and off-board system calibration, set-up and validation.
- Provides access to event trace facility for enhancing and optimizing your run time code
- A comprehensive product manual provides documentation for all API-accessible functions, which along with provided example source will enable you to be productive immediately.

Benefits

- Industry-standard GNU tool chain provides familiar environment to hardware development, diagnostic and application development staff, increasing productivity
- Leverages all the power of Koizio's kDiagnostics test primitives and processes, extending the integrity of your test coverage to unique or proprietary components
- Backed by Koizio's embedded design experts, offering support and professional services to ensure your design is robust and reliable across its life-cycle

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