Real-Time Digital Signal Processing in a Mixed-Signal LSI Test System

In test subsystems based on digital signal processing, the HP 9493 test system emulates the analog and digital signals of the device under test, thereby reducing test time and increasing test coverage compared to a memory-based test system.

by Keita Gunji

Complex mixed-signal integrated circuits are used more and more frequently to realize many complex functions needed for applications such as telecommunications, serve centrel, and image processing. Testing of these ICs is much more difficult than for traditional ICs because of the integration of complex functions and synchronized interactions between blocks. Governtional IC testing methods cannot provide both high test throughput and high test quality for these devices. At-speed signal processing by synchronized distributed subsystems is required to perform functional testing of complex mixed-signal devices. Also required is a programming style that is straightforward and allows flexible control of signal and data flow in the test subsystems.

DSP-based LSI testers can be classified as having one of two types of architecture according to the location of the signal processing units (SPU): centralized or distributed. In the distributed type, SPUs are distributed among the individual subsystems. Usually, each SPU cannot manage a large amount of data and the processing speed of each SPU is slower than that of a centralized SPU. Programming is more difficult because the SPUs are not strongly coupled to the GPU, so the control layer between the CPU and the SPUs is more complicated. On the other hand, the distributed type makes it possible to process data in the subsystems and enables at-speed emulation of IC functions, which is required to test mixed-signal devices.

To meet the needs of complex mixed-signal testing, the HP 9495 mixed-signal LSI test system is based on distributed digital signal processors (DSPs). In each test subsystem is a Motorola DSP950002 chip, which runs at 52 MHz and performs 32-bit floating-point operations. The DSP modules are connected by data transmission paths for data sharing. A flexible programming language directs the DSPs to generate and analyze test signals.

The HP 9495 architecture allows digital and analog signal processing completion times on the order of microseconds to ensure the quality and throughput of dynamic signals and data operations for the device under test (DUT). Precise timing synchronization of all subsystems makes it possible to distribute operations among the DSP modules.

Compared to a memory-based test system, the HP 9493's distributed DSP architecture reduces test time and increases test coverage for complex mixed-signal devices. To generate

an analog waveform, the conventional memory-based system must compute and store discrete time data for the entire waveform before generating it. This takes time and may require so much memory that the functions of a complex device may not be tested completely because of the memory cost. In contrast, the DSP-based HIP 9403 prepares the discrete time data in real time using a much smaller amount of waveform memory.

Architecture

Fig. 1 shows the HP 9493 system architecture, which allows synchronous and asynchronous control of the analog and digital subsystems and the distributed DSP in each subsystem. This distributed architecture consists of a tester controller, which controls all test subsystems, a master clock subsystem, two test heads, and test subsystems. The test subsystems include digital subsystems, which generate and fetch digital patterns and signals, arbitrary waveform generator subsystems, and waveform digitaer subsystems.

In each test subsystem are a DSP module, a sequencer, and a memory block. Each DSP module has a data transmission path. The DSP modules operate on data or signals according to instructions loaded from the tester controller, and the start and stop operations are synchronized by the master sequencer or tester controller. The master sequencer precisely synchronizes the timing of the other sequencers.

The DSP96002 manages the memory block. Data can also be stored in high-speed memory in the DSP module to reduce memory access time, which increases the processing speed of the DSP90002. The sequencer in each subsystem controls address generation and the timing of data fetch or generation between the memory block and the signal input or output for memory-based testing.

The advantages of this architecture are real-time signal emulation and shared signal processing. Test throughput is more than double the capability of conventional LSI testers, and IGs can be evaluated by at-speed functional tests. Data can be transmitted between DSP modules without CPU intervention, which allows synchronous and concurrent operation and sharing of signals from the DRIT.

The DSP module in the digital subsystem can fetch and generate up to 52-bit digital test data. The test data is directly connected to the data bus of the DSP96002. Data can be

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Thomas Noulis

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