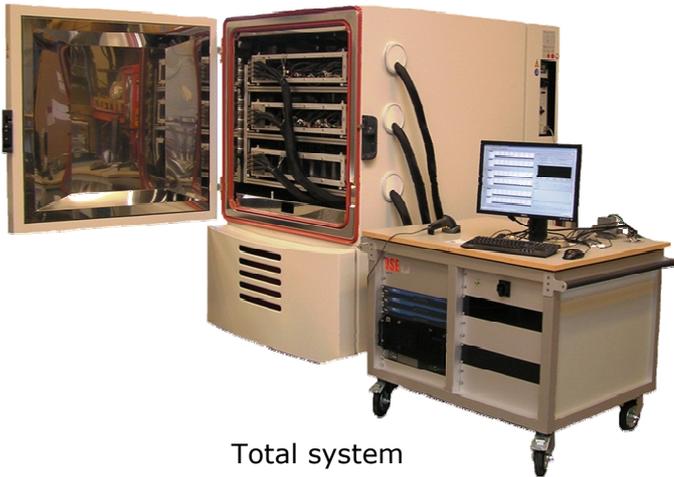


Burn-in Test System

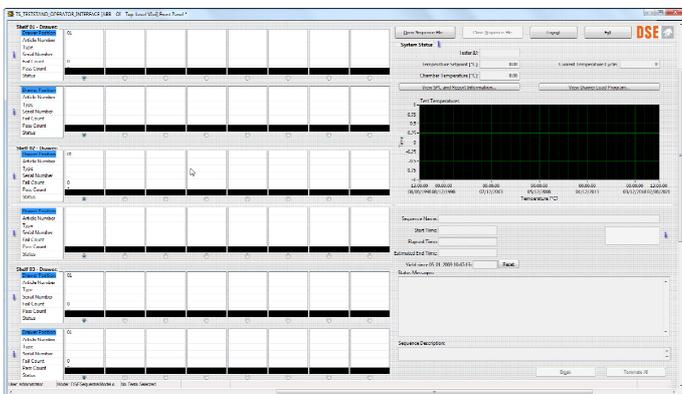
For test of 48 computer boards in parallel



Total system



Chamber with cassettes



User Interface

Application

Burn-in system performing active burn-in test of 48 servo computer boards (UUT's) in parallel. Each UUT comprises CPU, DSP, FPGA's and several communication interfaces. During test all computers are run with CPU load and communication activity similar to real life maximum capacity of the UUT.

The system is configurable with regard to temperatures, test time etc. Typical test time is 4 hours per batch. Real-time monitoring and logging of results are handled during test.

Developed for a big Swedish customer and installed at an EMS production site in Malaysia. DSE is supporting the system based on a service support agreement via remote interface.

Software

The application is based on National Instruments TestStand and LabView. During test UUT's are uploaded with VxWorks based BIST. Teststand controls all 48 UUT's using a customized version of the TestStand batch process model combined with **DSE EasyStand** a comprehensive toolbox for handling System configuration, User Interfaces, Instrument Drivers, Data logging and product diversity.

The system leverages local XML files combined with SQL-databases, allowing the system to operate without data loss even in situations where network or database access fails.

Hardware

The system uses a standard Vötsch climate chamber, for which DSE has developed a cassette solution handling 3 x 12 UUT's. The cassettes are connected to the test hardware through a cable harness. The test hardware comprises a significant amount of switching, RS-232/-485/-RS422 interfaces, Ethernet, power supplies and more. Servers etc. are embedded to ensure uptime in a demanding environment.