EADS TEST ENGINEERING SERVICES

SigBase Product Training
Four Day Training Course

Introduction

SigBase is an Integrated Development Environment for the creation and execution of IEEE 1641 test programs. It supports the development of tests using flow-charting techniques and the graphical design of signals using newWaveX. It includes fully integrated compilation and signal path allocation software that determines the appropriate instrument and switch path for each test signal. The run-time system, which is also available as a separate product for use on multiple test stations, controls the operation of the ATS and can provide test results in ATML format.

Course Overview

This four-day course introduces the visual development process within SigBase. Students learn how to create test strategies that describe the testing sequence of units under test. The test strategies contain test elements for input parameters, output parameters and comparison of test limits. The course also describes how test strategies are documented. A review of the IEEE 1641 standard is included and a description of how signals and Test Signal Framework (TSF) models are defined using newWaveX. The conversion of 1641 carrier language and TPL code to run-time program is explained. The course includes a practical element in which delegates gain hands-on experience by completing exercises to enhance the understanding of the processes involved.

Course organisation

- Courses are held at our Ferndown training centre
- Refreshments and lunch are included
- Course notes are provided for all attendees
- Training will be supported by practical exercises, for which model answers are provided for the future reference of attendees
- Courses may be provided at customer's premises by special arrangement
- For available dates and course prices, please contact EADS

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Wimborne, Dorset BH21 7PE
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Course content

- Basic 1641 understanding
  - Structure of the standard
  - 1641 in more detail
  - Using the 1641 standard
  - Graphical programming
  - Physical signals, events and digital streams
  - Signal & Test Definition (*What, When, Where*)
  - Measurement
- Using 1641 with newWaveX
  - Signal elements
  - How to do measurements
  - Test Signal Frameworks (TSFs)
  - A case study
  - Examples
- SigBase Overview
  - SigBase IDE
  - Underlying ATLAS processes
- Using SigBase
  - Description of process of creating a program with the SigBase IDE
  - Hands-on exercises
- SigBase Support (ATLAS) Processes
  - Creating a description of the ATS
  - Simple examples (aligned to worked example)
  - Build executable Program (from worked example)
- SigBase Runtime
  - Simulate program
  - SigBase FTE features
- Creating Digital Programs
  - Generic digital features
  - Digital TSFs
- Conclusions & summary

Related Courses

- *newWaveX*™–SD User/Developer

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