

Drivers for HP test and measuring instruments.

Numerous drivers have been developed for HP's range of instruments. These drivers were developed after a thorough study and understanding of the features of each instrument. One distinguishing feature during the development and testing of these drivers was the distributed nature of implementation. The instrument was physically located in one of HP's facilities in the US while the software was developed, tested and executed from Bangalore via a satellite link.

Hardware platform

- HP 9000 Series 300HP Workstations
- IBM PC AT compatibles Software
- HP-UX 9.0
- Visual Engineering Environment (VEE)
- HP Interactive Test Generator Language
- X Windows Graphical User Interface
- Instrument drivers

Synchronous Optical Network (SONET) / Synchronous Digital Hierarchy (SDH) - HP 37724 : Generation and analysis of Tributary Unit-12 (2 Mb/s) and 140 Mb/s mapped signals with full control of regeneration sections, multiplexer sections and parts overhead bytes. Plug in modules provide connections to a range of optical interfaces. Errors, alarms and G.783 pointer movement sequences are generated to stress equipment upto and beyond CCITT standards.

Typical applications have been installation, acceptance testing, commissioning and maintenance of SDH network equipment, such as line systems, add-drop multiplexers, digital cross connects and line terminal multiplexers.

Dynamic Signal Analyser - HP 35665A :

This is a highly sophisticated instrument that provides time, spectrum, network and amplitude domain measurements. In fact, it is a :

- Spectrum analyser +
- Network analyser +
- Acoustic sound level meter +
- Acoustic intensity analyser +
- Vibration analyser +
- Audio oscilloscope +
- Amplitude domain analyser

Modular Digitising Oscilloscope - HP 547x0A :

This sophisticated oscilloscope operates in two modes; real time and equivalent time. The driver facilitates plug-in modules suited to a wide range of applications. All 4 channels of the instrument can be used. Measurement of one time events and glitches as narrow as 500 ps are the main features.

Time Interval Analyser - E 1740A VXI card cage :

Versatile time interval analyser card with 50 ps resolution and data rates of 80 MHz. Supports statistical and window margin analysis.

Microwave counter - HP 535X series :

Driver for the HP 535X series with a range of 10 Hz to 46 GHz.

Modulation Domain Analyser - HP 53310A :

Driver for this instrument that facilitates setting up the instrument for measurement by automatic signal evaluation.