SICL User Training

Technical Data

HP Education Services: Your Key to Higher Productivity

Course Overview

Learn to use the Standard Instrument Control Library (SICL) with your C language programs to control your instrumentation system. Understand the fundamentals of input/output (I/O) in C or C++. Gain hands-on experience with instruments in local or remote applications.

Course Features

- Understand how the SICL library operates within the UNIX architecture.
- Optimize the use of shared or archived libraries.
- Formatted/Non-Formatted I/O operations.
- Error handling techniques.
- Interface-specific details for GP-IB, RS-232, GPIO, MXI/VXI, LAN.
- Proper design for interrupt driven data acquisition programs.

Specifications

Course Length
3 days

Audience
Engineers, Scientists, and Programmers.

Prerequisites
Familiarity with C language programming.

Delivery Method
Classroom, dedicated

Format
Course content is 50% lecture and 50% lab.

Classroom Training Benefits

Experienced HP Instructors
Learn from an experienced HP instructor who is an expert in using and applying instrument systems to meet your measurement needs.

Available at HP Classrooms or Your Site
Take advantage of HP's learning facilities, equipment, and interactive learning environment by attending class at an HP facility. Or, save travel expenses and time by organizing an dedicated delivery at your location.

Regularly Scheduled Classes
Plan training months in advance.

Extensive Hands-on Practice
HP classroom training is characterized by extensive hands-on experience and interactive class discussion. HP classroom training pays off immediately because it is geared to real-world solutions.

Comprehensive Student Materials
Copies of course materials are provided for future reference on the job.

Course Number: E2091C+24C (scheduled)
E2091C+24Y (dedicated)

SICL User Training (E2091C+24C)

Course Agenda

Day 1

- Getting started
- C language review for SICL library usage
- Fundamentals of SICL
- Formatted, Non-Formatted I/O

Day 2

- GP-IB (IEEE-488) description and usage with SICL
- Instrument Control with GP-IB instruments
- Interrupt operation with Service Request and other stimuli
- VXI/MXI description and usage with SICL
- VXI/VME limitations

Day 3

- RS-232 description and usage with SICL
- GPIO (16 bit parallel) description and usage with SICL
- LAN description and usage - client/server implementation
- SICL in the Windows environment

Ordering Information

To order the Standard Instrument Control Library (E2901C+24C) in the U.S. call 1-800-HPCLASS (800-472-5277).

HP's Customer Registration Center can provide you with price, scheduling, and enrollment information, as well as provide information about dedicated delivery (E2091C+24Y) or customizing a course for your specific needs.

Outside the U.S., contact your nearest local HP sales office.

Region Sales Headquarters:

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