
Phil Riley's HCD Workshop

(Visit www.epstrategies.com for class schedule and pricing.)

A week of learning and doing!

Audience

This two-day seminar is designed for system programmers, operations staff and management personnel who are directly or indirectly involved with all aspects of hardware configuration using IBM's Hardware Configuration Definition (HCD) product.

Seminar Abstract

The seminar presents students with an overview of the HCD environment together with the methodology for navigating through the HCD dialog panels. Students learn how to create new configurations within an I/O Definition File (IODF), both from a hardware and software perspective, including coupling facility connectivity. Unique configuration requirements for IBM's latest processors are described.

Power-on-Reset and IPL considerations for the use of the IODF are explained.

HCD support of IOCP and MVSCP/HCPRIO is discussed, with respect to both migration of this data into an IODF, and the functionality and requirement to rebuild such statements from an IODF definition.

An overview of the various HCD utility functions is presented, including the capability of printing configuration reports and comparing configurations to confirm changed data. In addition, students are introduced to the concept of dynamically activating a new configuration without the need for a system IPL or a Power-on-Reset.

Note: Although ESCON and FICON switch configuration concepts are mentioned in the course material, IOCP and HCD specific details plus practical application through the use of labs is reserved for the associated two-and-a-half-day FICON Configuration Workshop class.

Lecture material is reinforced with the use of lab exercises.

Prerequisites

To fully benefit from this seminar, students should possess knowledge of hardware components. A basic understanding of the I/O Configuration Program (IOCP) process is helpful but not mandatory.

Seminar Objectives

In this seminar, students will learn how to:

- Use the HCD dialog panels to create a complete hardware and software configuration
- Configure multiple logical channel subsystems where necessary
- Configure and connect coupling facility links to one or more processors
- Generate IOCP statements from HCD and re-migrate back to HCD
- Generate and interpret configuration item and comparison reports
- Successfully perform a dynamic configuration change
- Reference a required software configuration during an IPL procedure
- Identify an error on a fiber link from console messages and/or SYS1.LOGREC records



Seminar Outline

The following is a high level outline for this seminar:

I/O Configuration Overview

- IOCP and MVSCP parameter review
- HCD data sets
- IPL considerations
- LOADxx PARMLIB member search sequence

HCD Dialog and Navigation

- Creating a work IODF
- Action Bar options
- Context menus and shortcuts
- PF key assignments
- Keyboard navigation

IOCP and MVSCP Migration

- Pre-migration checklist
- Esoteric tokens
- Migration panel options
- Incremental update
- Creating a production IODF

Creating Configuration using HCD Panels

- Defining operating system
- Defining processor
- Defining partition
- Defining control unit
- Defining device
- Defining eligible device table
- Defining esoteric
- Assigning device to esoteric
- Defining IPL console

Coupling Facility Configuration

- Coupling facility channel types
- Connecting coupling links using HCD panels
- Coupling Facility control units and devices

Configuration Data Processing Options

- Copying an IODF
- Building an IOCP deck
- Downloading an IOCDS file
- Building processor configuration statements
- Building operating system statements
- Building switch configuration statements

IODF Configuration Reporting

- Generating configuration reports
- Generating IODF comparison reports
- Generating hardware and software comparison reports



Dynamic I/O Reconfiguration

- Static vs. dynamic devices
- Processor and IODF token processing
- Reasons for software-only dynamic changes
- Virtual storage considerations
- ACTIVATE console command
- HCD Activate function
- Sysplex-wide activation



Seminar Dates and Location and Prices

For dates and locations and prices, please visit www.epstrategies.com for details, or call our office at 813-435-2297. Seminars are regularly offered in the USA and Europe.

Instructor

Phil Riley, Principal of Phil Riley Systems Consulting, has worked in the mainframe environment for over 37 years. He began his career working for Rolls Royce in his native England and decided to immigrate to Canada in 1973. After working with the installation of the first releases of MVS, he joined Amdahl Canada in 1977 as a Systems Engineer, specializing in MVS support and diagnostics. After being hardware trained to support Amdahl's mainframe product line, he was sent to Europe for 18 months to assist with hardware and software support in England, the Netherlands, Belgium and Sweden.

In 1985, **Phil** left Amdahl to join some friends who were forming an outsourcing company known as Aaski Management. The company was granted a marketing assistance role by IBM, whereby the two companies worked together to help IBM improve the sales of their mid-sized mainframes. Companies that were signed up with one of Toronto's data processing service bureaus then found they had a cost-justified alternative way to run their data processing operation using their own processor, either located in their own Aaski-built data centre, or in Aaski's own computer room where they were given remote access. **Phil** was responsible for the design of the 10,000 sq. ft. data centre, together with the installation and management of environmental, large-scale computer and communications hardware. He was also responsible for the hiring of operations and technical support staff, and the direct support of several MVS systems. He managed the projects for the successful conversion of six clients from service bureau to in-house environments.

Phil returned to Amdahl in 1991 to work as an instructor in their education division. His extensive knowledge of the MVS operating system plus mainframe architecture, his experiences at Aaski, and his desire to work in a teaching environment made him an ideal candidate for this role. When he became self-employed through downsizing in 1994, he continued to work under contract, not only for Amdahl, but also for IBM and several other companies specializing in large system education. **Phil** now has over 14 years experience in teaching, and has delivered open enrolment and contract classes throughout Canada and the United States, plus the Middle East, China and India. He specializes in z/OS internals and diagnostics, assembler language and hardware configuration.

For More Information...

For more information on this or other seminars, including prices and locations, please contact:

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Please do not hesitate to call if you would like more information or details on this seminar. Peter will be happy to talk with you.

In-house

All seminars are available for in-house instruction.

