

RPG IV and ILE Programming for RPG Programmers

(RG54)

3½ Days (60% Lecture, 40% Workshop)

This course provides a comprehensive overview of the AS/400 Integrated Language Environment and RPG IV from the perspective of someone already familiar with RPG/400 (RPG III).

Prerequisites: High level of experience with both batch and interactive RPG/400 programming.

Course Outline

RPG IV Basics

Stretching the Limits
Specification Changes Overview

Defining Data With D-Specs

Work Fields
Data Structures
Tables and Arrays
Named Constants
Prototypes and Procedure Interfaces
Long Field Names
New Data Types
Indicator Data Structures
Initializing Data Items

Expressions and Built-in Functions

Calculation Specification Changes
New Operation Codes
Operation Code Extenders
EVAL Operation
Improving EVAL Precision
Built in Functions
Using BIFs to Eliminate Indicators

Date and Time Processing

Defining Dates, Times, Timestamps
Date and Time Formatting
Initializing Date Values
Date-Related Operation Codes
Processing Legacy Dates
Date Performance Issues

Converting, Compiling, and Debugging

Migration Issues
Compiling RPG IV Programs
Creating Modules
Binding Programs
Using CRTBNDRPG Effectively
Using a Binding Directory
ILE Program Updates
Conditional Compilation
Debugging ILE Programs
Debug Views

Coding and Calling Subprocedures

ILE Program Structure
Coding Subprocedures
Defining and Using a Prototype
Coding a Procedure Interface
Sample Subprocedures
Compiling a Subprocedure
Calling Subprocedures
Subprocedures Vs. Subroutines
Why Prototypes?
Passing Parameters
Prototyping Program Calls
Prototyping API Calls
Prototyping C Functions

Static Binding and Service Programs

Dynamic Program Call
Static Procedure Call
Bind by Copy
Bind by Reference
Creating a Service Program
Calling a Service Program
Service Program Signatures
Using Binder Language

Understanding Activation Groups

What are Activation Groups?
Default Activation Group
User Named ILE Activation Group
*NEW Activation Group
*CALLER Activation Group
Activation Groups and File Overrides
Reclaiming Resources
Activation Groups and Shared File Opens

ILE Error Handling

Message Percolation
Message Handlers

RPG IV Style Guidelines

Introduction to WebSphere Development
Tools

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