Enterprise COBOL Update - Course Objectives

On successful completion of this class, the student, with the aid of the appropriate reference materials, should be able to:

1. Code programs using the features of the Enterprise COBOL compiler, including features such as:

Intrinsic functions

External data and file attributes

Passing data to subroutines by reference, by content, and by value

Receiving returned values from subroutines or functions

Access files in the Hierarchical File System (HFS) using line sequential processing

Dynamically allocate files at run time

- Run programs compiled using the Enterprise COBOL compiler, providing the correct run-time parameters and JCL
- 3. Describe the role of Language Environment (LE), and the major functional capabilities supported by LE
- 4. Be able to use the Millennium Language Extensions (MLE), if interested.

Enterprise COBOL Update - Topical Outline

Day One

The Legacy of VS COBOL II COBOL II Recap Mixed-case and un-named filler Packed-decimal and binary data declarations Tables: dimensions, sizes, and initialization Reference modification and hex notation Pointers and addresses Nested programs CALL BY CONTENT ON EXCEPTION enhancements PERFORM WITH TEST AFTER Scope terminators In-line PERFORM SET TO TRUE CONTINUE
INITIALIZE EVALUATE
Some Compiler Parm changes
Changes in OPEN Behavior <u>Computer Exercise</u> : Using the New COBOL Structures
COBOL Evolves COBOL/370 (Version 1, Release 1) New reserved words Compiler option changes Run-time JCL changes Language Environment Run-Time Parameters of interest
COBOL Intrinsic functions
Concepts and Syntax Date and Time Related Functions String Related Functions Arithmetic, Business, and Mathematical Functions The ALL Intrinsic Function
Computer Exercise: Using Intrinsic Functions

Enterprise COBOL Update - Topical Outline, p.2.

Introduction to Language Environment

What Is Language Environment? LE Services Benefits of Using LE Using LE Services	
Day Two	
A Deeper Look at LE LE Program management Survey of LE services Code fragments: Condition handler, storage management Computer Exercise (optional) Using a Condition Handler	201
COBOL for MVS & VM (Version 1, Release 2) Changes General Changes Apostrophes and Quotes Null-terminated non-numeric literals Long names, mixed case names Enhanced currency support Local-storage Recursive programs RETURNING on procedure division header and call Pass arguments BY VALUE Procedure-pointer extensions New Reserved Words New / Changed Compiler Options New / Changed Run-time Options INTDATE COBOL Compiler Installation Option Introduction of Object Oriented COBOL	

Enterprise COBOL Update - Topical Outline, p.3.

Day Two, continued

COBOL for OS/390 & VM (Version 2, Release 1) Changes

DLL Support

New ACCEPT options

New functions: DATE-TO-YYYYMMDD, DAY-TO-YYYYDDD,

YEAR-TO-YYYY

New compiler option

COBOL for OS/390 & VM (Version 2, Release 2) Changes

ADDRESS OF available for WORKING-STORAGE

New usage: comp-5

31-digit numbers

Line sequential files

New / changed compiler options

Dynamic file allocation

z/OS UNIX support

Computer Exercise: Dynamic File Allocation From COBOL Program .. 285

Enterprise COBOL changes

Enterprise COBOL V3R1

Enterprise COBOL V3R2

Enterprise COBOL V3R3

Enterprise COBOL V3R4

Enterprise COBOL V4R1

Enterprise COBOL V4R2

Enterprise COBOL Compiler: V3R1

New reserved words

Compiler option changes

DB2 coprocessor (from earlier compiler)

CICS integrated translator

Multithreading support

Function-pointers

ADDRESS OF in CALL

Enterprise COBOL Update - Topical Outline, p.4.

Day Two, continued

Enterprise COBOL Compiler: V3R2

New / changed reserved words, compiler options

New functionality: overview

Enterprise COBOL Compiler: V3R3

New / changed reserved words, compiler options

New functionality: overview

Enterprise COBOL Compiler: V3R4

New / changed reserved words, compiler options

New functionality

Larger table limits

Unicode support, stage2

REDEFINES extension

Enterprise COBOL Compiler: V4R1

Compiler option changes

New reserved words

Enhanced XML support

Enterprise COBOL Compiler: V4R2

Compiler option changes

New functionality

Underscore in user-defined names

XML PARSE with validation

Appendix: MLE - Millennium Language Extensions