

Chapter 1: Introduction	
Client Specific Performance Objectives and Examples	1-2
New Features	3-4
Java Interoperability	5
OO Syntax for Java Interoperation	6
Java Interoperability	7
Migration Path	8
WebSphere Support	9
XML: Introduction	10
XML Document - Sample	11
XML on z/OS	12
COBOL XML Parser Support	13-15
Unicode	16-18
Unicode Conversion	19
Multithreading	20-21
Miscellaneous Enhancements	22

Chapter 2: Unicode Support

Client Specific Performance Objectives and Examples	1-2
Unicode: What is it?	3
Unicode: Why	4
Unicode Support in Enterprise COBOL for z/OS	5
Unicode Support: Overview	6
Unicode Literals	7
Unicode Data Type	8
Compiler Options	9
Assignment	10
Unicode Compares	11
Other Language Syntax Supporting Unicode	12
Intrinsic Conversion Functions	13
Unicode: Using in DB2 COBOL Programs	14
COBOL Unicode Support and XML Processing	15
Unicode Example	16

Chapter 3: Writing Object Oriented Programs

Client Specific Performance Objectives and Examples	1-2
OO Program	3
COBOL OO Features	4
OO Program	5
Using COBOL in OO	6
OO Terms	7
JNI: Java Native Interface	8
Class in Object-oriented COBOL	9
Instance Method Used in Object Oriented COBOL	10
Instance Data Used in Object-oriented COBOL	11
Factory Method, Static Method Used in Object Oriented COBOL	12
Factory Data, Static Data Used in Object Oriented COBOL	13
Inheritance Used in Object-oriented COBOL	14
Defining a Class	15

Chapter 5: Special Features

Client Specific Performance Objectives and Examples	1-2
Recursive Calls	3
Recursive: Identifying a Program	4
Recursive Calls: Making	5
Sample Recursive	6
Nested Program	7-8
Nesting Called Programs: Advantages	9
Sample Nested Program	10
COMMON	11
Scope of Names	12
Local Names	13
Global Names	14
Searches for Name Declarations	15
Initial	16
Setting a Program to an Initial State	17
Initial State	18
Sample INITIAL	19
TITLE Statement	20
Title	21
TITLE Statement	22
Symbolic Characters	23-24

Chapter 6: Storage and Addressability

Client Specific Performance Objectives and Examples	1-2
Addressing: 24 versus 31 Bit	3
AMODE	4
RMODE	5
Control Run Time Storage	6-7
Storage Restrictions for Passing Data	8
Location of Data Areas	9
HEAP	10
Storage for LOCAL-STORAGE Data	11

Chapter 7: Compiling Under z/OS

Client Specific Performance Objectives and Examples	1-2
Compiler	3
DD Cards for Compile	4-7
Compiler Options Under z/OS	8
PROCESS (CBL) Statement	9
Types of Compiler Output Under z/OS	10-13
Batch Compilation	14-15
List of Compiler Error Messages	16
CICS	17
Language Environment and Run Time Options	18
Run Time Options	19-22
Program Structure	23

CLASS-ID Paragraph	16-17
REPOSITORY Paragraph for Defining a Class	18-19
WORKING-STORAGE SECTION for Defining Class Instance Data	20
Defining a Class Instance Method	21-22
Signature	23
METHOD-ID	24
INPUT-OUTPUT SECTION for Defining a Class Instance Method	25
DATA DIVISION for Defining a Class Instance Method	26
LOCAL-STORAGE SECTION	27
WORKING-STORAGE SECTION	28
PROCEDURE DIVISION: Defining a Class Instance Method	29-30
Sample Class	31
Sample Method	32-34
Overloading an Instance Method	35
Coding Attribute (get and set) Methods	36
Invoking Methods (INVOKE)	37
Creating and Initializing Instances of Classes	38
Freeing Instances of Classes	39
Sample Client	40
Sample SubClass	41-43
Sample Factory	44-49

Chapter 4: XML Processing

Client Specific Performance Objectives and Examples	1-2
Processing XML Input	3
Special Registers	4
XML Parser in COBOL	5
XML Parse Processing	6
Well Formed	7
Accessing XML Documents	8-9
COBOL Facilities	10
Link-edit Considerations	11
Parsing XML Documents	12
XML PARSE	13
CODEPAGE	14
XML Declaration	15
EXCEPTION	16
Parser Control	17
XML EVENT	18
XML Writing Procedures to Process XML Events	19
Special Registers	20
The Content of XML-CODE	21
XML-TEXT and XML-NTEXT	22
Transforming XML Text to COBOL	23-24
Supported EBCDIC Code Pages	25
How the XML Parser Handles Errors	26
Sample Parse	27-32
XML Output	33-34
Generating XML Output	35
Redefines	36
Filler	37
Elementary Items	38
Sample XML Output Program	39-44
Program Pretty	45-49

Language Environment Initialization	24-26
LE Date and Time	27
Date and Time Service	28
Date/Time Callable Services	29-31
Date Format	32
Date and Time Values: Performing Calculations	33
Century Window Routines	34
CEEQCEN/CEESECS	35-36
CEESECS	37-40
General Callable Services	41
CEEDUMP	42
COBOL Data Type Definitions	43-44
Bit Manipulation Routines	45
CEE3ABD-Terminate	46
CEE3DMP-Generate Dump	47

Chapter 8: Processing Dates

Client Specific Performance Objectives and Examples	1-2
Century Window	3
Automatic Date Recognition	4
MLE: Millennium Language Extensions	5
Date-related Logic Problems	6
Century Window: Using	7
Internal Bridging: Using	8
Full Field Expansion: Moving to	9-10
DATEVAL	11
UNDATE	12
Date-related Diagnostic Messages	13
CURRENT-DATE	14-17
DATE-OF-INTEGER	18
DATE-TO-YYYYMMDD	19
DATEVAL	20
DAY-OF-INTEGER	21
INTEGER-OF-DATE	22
INTEGER-PART	23
UNDATE	24
YEAR-TO-YYYY	25
YEARWINDOW	26

Chapter 9: Performance and Tuning

Client Specific Performance Objectives and Examples.....	1-2
Compiler Options that Affect Run-Time Performance.....	3
ARITH - EXTEND or COMPAT.....	4
AWO or NOAWO.....	5
DATA(24) or DATA(31).....	6
DYNAM or NODYNAM.....	7
FASTSRT or NOFASTSRT.....	8
NUMPROC - NOPFD, MIG, or PFD.....	9-10
OPTIMIZE(STD), OPTIMIZE(FULL), or NOOPTIMIZE.....	11
SSRANGE or NOSSRANGE.....	12
TEST or NOTEST.....	13
THREAD or NOTHREAD.....	14
TRUNC - BIN, STD, or OPT.....	15-18
Run-Time Options that Affect Run-Time Performance.....	19
AIXBLD.....	20
CHECK.....	21
DEBUG.....	22
RPTOPTS.....	23
RPTSTG.....	24
TEST.....	25
Storage Management Tuning.....	26-28
CALLS.....	29-30
QSAM Files.....	31
IS INITIAL on the PROGRAM-ID Statement.....	32-33
IS RECURSIVE on the PROGRAM-ID Statement.....	34
First Program Not COBOL.....	35
QSAM Files.....	36
VSAM Files.....	37
VSAM.....	38
BINARY (COMP or COMP-4).....	39-40
BINARY.....	41
COMP-5.....	42
Data Conversions.....	43
DISPLAY.....	44
Display.....	45
PACKED-DECIMAL (COMP-3).....	46
Fixed-Point versus Floating-Point.....	47
Indexes versus Subscripts.....	48
OCCURS DEPENDING ON.....	49