

Chapter 1: Introduction and Facilities

Product Information 1
 Sorting 2
 Merging 3
 Copying 4
 Utilities and Other Features 5
 Selecting Records, Reformatting Records and Summarizing Fields 6

Chapter 2: Job Control Language

Program Applications and Datasets 1
 DD Statement Requirements 1
 DYNALLOC Parameter 2
 EXEC Statement 3
 SYSOUT DD Statement 4
 SORTIN DD Statement 5
 Concatenating Input Datasets 5
 SORTOUT DD Statement 6
 SORTWKnn DD Statement 7
 Tape Sort 7
 SYSIN DD Statement 8
 SORTPARM DD Statement 9
 Exit Routines Requiring Linkediting at Execution Time 10
 SORT Example - Simple Sort 11

Chapter 3: Control Statements

Data Utility Processing Sequence 1
 Coding Considerations 2
 SORT/MERGE Control Statement 3
 FIELDS Parameter 4
 SORT Example - FORMAT Parameter 4
 SORT Example - Zoned Decimal 5
 Coding Constraints - FIELDS = COPY Option 6
 SORT Example - Sort and Accumulate Values 6
 Parameters - SORT/MERGE Control Statement 8
 SIZE Parameter 8
 FILSZ Parameter 8
 SKIPREC Parameter 8
 EQUALS / NOEQUALS Parameter 9
 STOPAFT Parameter 9
 SORT Example - Multiple Fields and STOPAFT 10
 INCLUDE/OMIT Control Statement 11
 COND Parameter 11
 Field-to-Constant Comparison Format 12
 Combining Comparisons using AND's and OR's 12
 Selecting Input Records 12
 Required Control Statements 14
 Including Relevant Records 14
 Omitting Irrelevant Records 14

Chapter 6: HISTOGRM Utility Program

Function and Purpose 1
 Determining L6 and L7 Values for Syncsort 2
 Control Parameters for HISTOGRM 3
 Sample JCL/Control Stream for HISTOGRM 4

Selecting Relevant Fields from the Input Records 14
 SORT Example - Extract Records using INCLUDE 15
 SORT Example - Extract Records using OMIT 16
 Formatting the Reformatted Records 18
 Unedited Input Record Fields 19
 SORT Example - Reformat Input Records 20
 SORT Example - Format Multiple Fields 21
 Data Conversion and Editing 23
 PARSE Parameter 23
 IFTHEN Parameter 23
 EDIT Subparameter 23
 SIGNS Subparameter 24

Chapter 4: Data Utilities

OUTREC Control Statement 1
 SORT Example - Reformat Output Record 4
 SORT Example - Copy Data 6
 SORT Example - Replace a Value 7
 SORT Example - Generate Sequence Numbers 9
 OUTFIL Control Statement 11
 SORT Example - Create Multiple Output Files 12
 Creating Multiple Output Files with the OUTFIL Control Statement 15
 Creating Multiple Output Files 15
 SORT Example - Multiple Output Files with Selection 16
 Generating Multiple Output Files with Different Information 20
 Writing Identical Output Files to Different Devices 20
 SORT Example - SORT and Generate Multiple Output Files with Sections 21
 COND Parameter - INCLUDE/OMIT Statement 25
 Sort Example - HEADER1 25
 SORT Example - HEADER2 30
 SORT Example - HEADER3 34
 SORT Example - EDIT Parameter 38
 OUTREC Parameter 42
 RECORD Control Statement 43
 TYPE Parameter 43
 LENGTH Parameter 43
 MODS Control Statement 44
 Exit-Name Parameter 44
 SUM Control Statement 45
 FIELDS Parameter 45
 END Control Statement 46
 SORT Example - Basic JOINKEYS 47

Chapter 5: Performance Considerations

Disk Sort 1
 MAXSORT 2
 JCL Sorts versus Program-invoked Sorts 3
 Control Statement Issues 4
 Efficient Use of PARMs 5
 Incore Sort 6
 Tape Sort Parms 7