

Text Utilities

Contents

About the Text Utilities	5-3
The Text Utilities and the International Resources	5-4
Obtaining Resource Information	5-4
Pascal Strings and Text Strings	5-6
Using the Text Utilities	5-7
Defining Strings	5-8
Working With String Handles	5-8
Working With String Resources	5-9
Sorting Strings in Different Languages	5-9
Sorting Strings in the Same Language	5-12
Primary and Secondary Sorting Order	5-12
Expansion and Contraction of Characters	5-14
Ignorable Characters	5-14
Converting and Stripping Characters	5-14
Special Cases for Sorting	5-14
Variations in Sorting Behavior	5-15
Choosing a Comparison Routine	5-15
Testing Two Strings for Equality	5-17
Comparing Two Strings for Ordering	5-18
Modifying Text	5-18
Converting Characters and Stripping Marks in Strings	5-19
Fitting a String Into a Screen Area	5-19
Replacing a Portion of a String	5-21
Finding Word, Line, and Script Run Boundaries	5-23
Finding Word Boundaries	5-23
Finding Line Breaks	5-24
Finding Subscripts Within a Script Run	5-28
Working With Date and Time Strings	5-29

Converting Formatted Date and Time Strings Into Internal Numeric Representations	5-31
Date and Time Value Representations	5-34
Converting Standard Date and Time Values Into Strings	5-34
Working With Numeric Strings	5-35
Converting Between Integers and Numeric Strings	5-38
Using Number Format Specification Strings	5-39
Converting Number Format Specification Strings Into Internal Numeric Representations	5-43
Converting Between Floating-Point Numbers and Numeric Strings	5-43
Text Utilities Reference	5-44
Data Structures	5-44
Routines	5-47
Defining and Specifying Strings	5-47
Comparing Strings for Equality	5-50
Determining Sorting Order for Strings in Different Languages	5-54
Determining Sorting Order for Strings in the Same Language	5-59
Modifying Characters and Diacritical Marks	5-64
Truncating Strings	5-71
Searching for and Replacing Strings	5-74
Working With Word, Script, and Line Boundaries	5-77
Converting Date and Time Strings Into Numeric Representations	5-82
Converting Numeric Representations Into Date and Time Strings	5-86
Converting Long Date and Time Values Into Strings	5-89
Converting Between Integers and Strings	5-91
Using Number Format Specification Strings for International Number Formatting	5-94
Converting Between Strings and Floating-Point Numbers	5-98
Summary of Text Utilities	5-102
Pascal Summary	5-102
Constants	5-102
Data Types	5-103
Routines	5-104
C Summary	5-107
Constants	5-107
Types	5-109
Routines	5-110
Assembly-Language Summary	5-113
Trap Macros	5-113