
Contents

<i>What's New</i>	<i>vii</i>
Overview	vii
SAS System Features	viii
SAS Language Elements	x

PART 1 **Dictionary of Language Elements 1**

Chapter 1 **△ Introduction to the SAS 9.1 Language Reference: Dictionary 3**

The SAS Language Reference: Dictionary	3
--	---

Chapter 2 **△ SAS Data Set Options 5**

Definition of Data Set Options	6
Syntax	6
Using Data Set Options	6
Data Set Options by Category	7
Dictionary	9

Chapter 3 **△ Formats 69**

Definition of Formats	73
Syntax	74
Using Formats	74
Byte Ordering for Integer Binary Data on Big Endian and Little Endian Platforms	77
Data Conversions and Encodings	79
Working with Packed Decimal and Zoned Decimal Data	80
Formats by Category	84
Dictionary	95

Chapter 4 **△ Functions and CALL Routines 259**

Definitions of Functions and CALL Routines	268
Syntax	269
Using Functions	271
Using Random-Number Functions and CALL Routines	273
Pattern Matching Using SAS Regular Expressions (RX) and Perl Regular Expressions (PRX)	276
Base SAS Functions for Web Applications	286
Functions and CALL Routines by Category	286
Dictionary	310
References	1005

Chapter 5 **△ Informats 1007**

Definition of Informats	1010
Syntax	1010
Using Informats	1011

Byte Ordering for Integer Binary Data on Big Endian and Little Endian Platforms **1013**

Working with Packed Decimal and Zoned Decimal Data **1015**

Informats by Category **1019**

Dictionary **1026**

Chapter 6 △ SAS ARM Macros 1137

Definition of ARM Macros **1137**

Using ARM Macros **1138**

Defining User Metrics in ARM Macros **1145**

Defining Correlators in ARM Macros **1146**

Enabling ARM Macro Execution **1147**

Setting the Macro Environment **1149**

Using ARM Post-Processing Macros **1150**

Troubleshooting Error Messages **1151**

ARM Macros by Category **1152**

Dictionary **1153**

Chapter 7 △ Statements 1171

Definition of Statements **1174**

DATA Step Statements **1174**

Global Statements **1179**

Dictionary **1184**

Chapter 8 △ SAS System Options 1549

Definition of System Options **1553**

Syntax **1553**

Using SAS System Options **1553**

Comparisons **1558**

SAS System Options by Category **1559**

Dictionary **1568**

PART 2 Appendixes 1763

Appendix 1 △ DATA Step Object Attributes and Methods 1765

The DATA Step Component Object Interface **1765**

Dot Notation and DATA Step Component Objects **1766**

Dictionary **1767**

Appendix 2 △ DATA Step Debugger 1793

Introduction **1794**

Basic Usage **1795**

Advanced Usage: Using the Macro Facility with the Debugger **1796**

Examples **1797**

Commands **1809**

Dictionary **1810**

Appendix 3 △ SAS Utility Macro 1827

Appendix 4 △ Recommended Reading 1831

Recommended Reading 1831

Index 1833