

Chapter
1

**UTILITY FUNCTION
PROGRAMS:
GETTING STARTED**

*Get on the
Fast Track!*



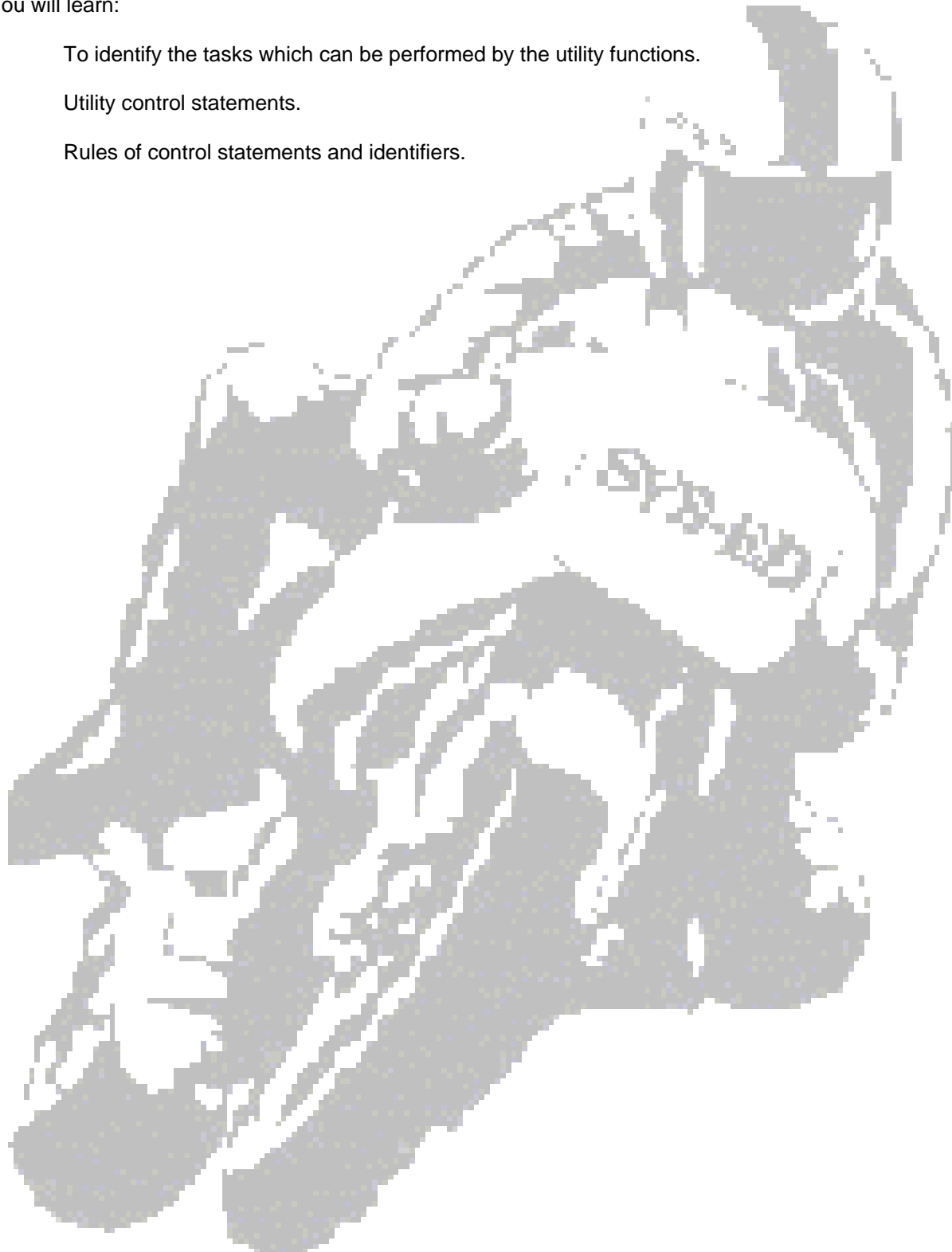
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**SYS-ED/
COMPUTER
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Objectives

You will learn:

- C To identify the tasks which can be performed by the utility functions.
- C Utility control statements.
- C Rules of control statements and identifiers.



1 Performing Tasks with Utility Functions

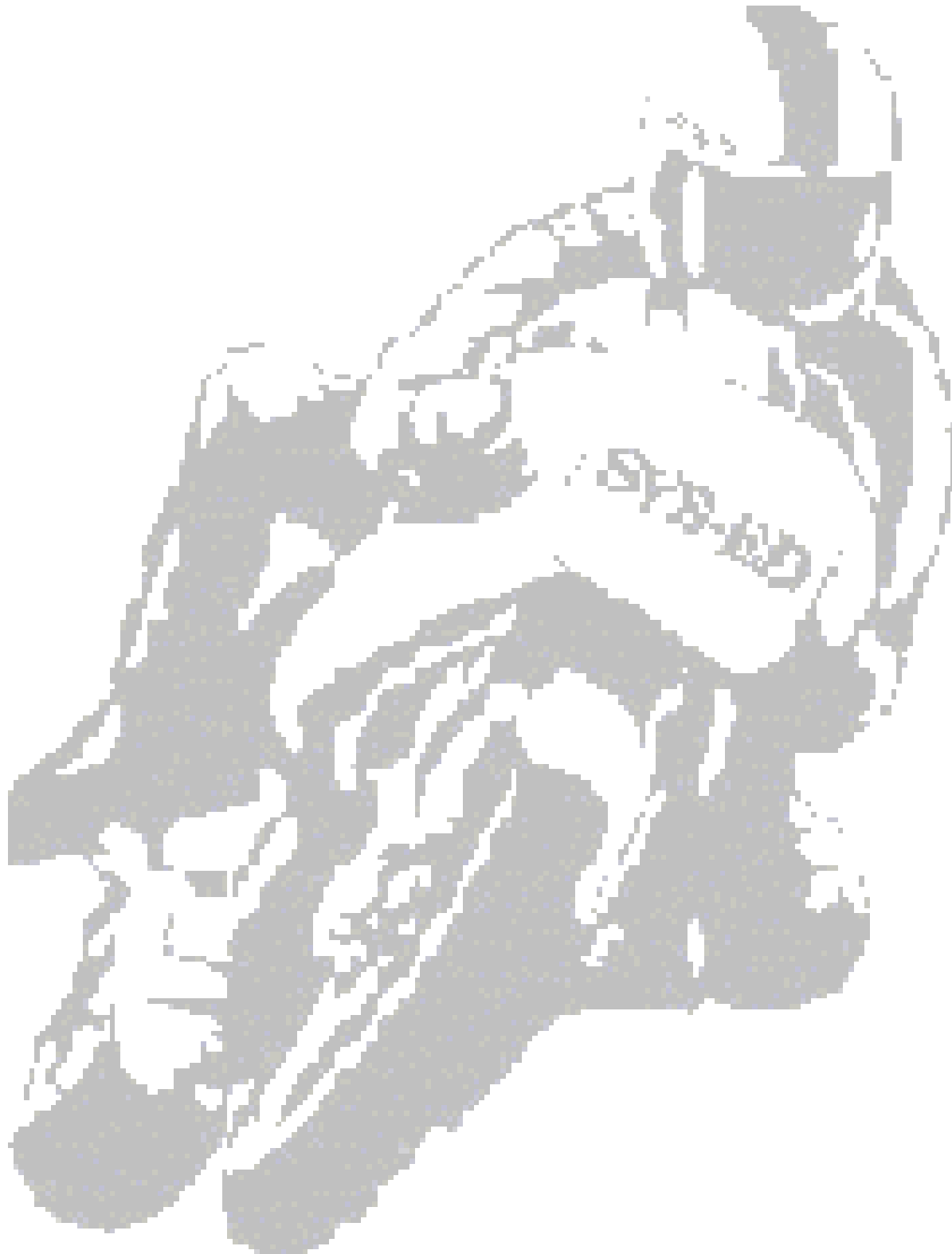
The utility programs can be used to perform the following tasks.

Task	Options	Primary Utility
Add	a password	IEHPROGM
Alter in place	a load module	IEBCOPY
Catalog	a data set in an CVOL	IEHPROGM
Change	data set organization	IEBUPDTE
	logical record length	IEBGENER
Compare	partitioned data sets	IEBCOMPR
	sequential data sets	IEBCOMPR
	PDSEs	IEBCOMPR
Compress	a partitioned data set	IEBCOPY
Compress in place	a partitioned data set	IEBCOPY
Convert to partitioned data set	An unloaded PDSE containing program objects can not be loaded into a PDS. An unloaded PDSE set containing data objects can be loaded into a PDS but all extended attributes will be lost.	IEBCOPY
	sequential data sets	IEBGENER
	a PDSE	IEBCOPY
Convert to PDSE	a partitioned data set	IEBCOPY
	an unloaded copy of a partitioned data set or PDSE	IEBCOPY
	sequential data sets	IEBGENER
Convert to sequential data set	a partitioned data set or PDSE	IEBGENER
	an indexed sequential data set	IEBDG
Copy	a load module or load module library	IEBCOPY
	a partitioned data set	IEBCOPY
	a volume of data sets (on tape or disk)	IEHMOVE
	an indexed sequential data set	IEBISAM
	job steps	IEBEDIT
	selected members of a partitioned data set	IEBCOPY

Task	Options	Primary Utility
	sequential data sets	IEBGENER
	a PDSE	IEBCOPY
	a group of PDSE members	IEBCOPY
	selected members of a PDSE	IEBCOPY
Create	a backup copy of a partitioned data set or PDSE	IEBCOPY
	a character arrangement table module	IEBIMAGE
	a library of partitioned members	IEBGENER
	a member of a partitioned data set or PDSE	IEBGENER
	a sequential output data set	IEBDG
	an indexed sequential data set	IEBDG
	an output job stream	IEBEDIT
Delete	a password	IEHPROGM
	catalog entries	IEHPROGM
	records in a partitioned data set or PDSE member	IEBUPDTE
	Edit and convert a sequential data set to partitioned data set or PDSE.	IEBGENER
Edit and copy	a job stream	IEBEDIT
	a sequential data set	IEBGENER
Edit and list	error statistics by volume (ESV) records	IFHSTATR
Edit and print	a sequential data set	IEBPTPCH
Edit and punch	a sequential data set	IEBPTPCH
Enter	a procedure into a procedure library	IEBUPDTE
Exclude	a partitioned data set member from a copy operation	IEBCOPY
	a PDSE member from a copy operation	IEBCOPY
Expand	a partitioned data set or PDSE	IEBCOPY
	a sequential data set	IEBGENER
Generate	Test data	IEDBG
Include	Changes to members or sequential data sets.	IEBUPDTE
Insert records	into a partitioned data set or PDSE	IEBUPDTE

Task	Options	Primary Utility
Label	magnetic tape volumes	IEHINITT
List	a password entry	IEHPROGM
	a volume table of contents	IEHLIST
	number of unused directory blocks and tracks	IEBCOPY
	partitioned data set or PDSE directories	IEHLIST
	CVOL entries	IEHLIST
Load	an unloaded partitioned data set to a partitioned data set	IEBCOPY
	an indexed sequential data set	IEBISAM
	an unloaded data set	IEHMOVE
	an unloaded partitioned data set to a PDSE (for non-load modules only)	IEBCOPY
	an unloaded PDSE to a partitioned data set (for non-load modules only)	IEBCOPY
	an unloaded PDSE to a PDSE	IEBCOPY
Merge	partitioned data sets	IEBCOPY
	PDSEs	IEBCOPY
	partitioned data sets and PDSEs	IEBCOPY
Modify	a partitioned or sequential data set, or a PDSE	IEBUPDTE
Move	a volume of data sets	IEHMOVE
	partitioned data sets	IEHMOVE
	sequential data sets	IEHMOVE
Number records	in a new or old member of a partitioned data set or PDSE	IEBUPDTE
Password protection	add a password	IEHPROGM
	delete a password	IEHPROGM
	list passwords	IEHPROGM
	replace a password	IEHPROGM
Print	sequential data sets	IEBTPCH
	partitioned data sets or PDSEs	IEBTPCH
	selected records	IEBTPCH

Task	Options	Primary Utility
	mixed strings of double-byte and single-byte character set data	IEBTPCH
	double-byte character set data	IEBTPCH
Punch	a partitioned data set member	IEBTPCH
	a sequential data set	IEBTPCH
	selected records	IEBTPCH
	mixed strings of double-byte and single-byte character set data	IEBTPCH
	Double-byte character set data	IEBTPCH
Reblock	a load module	IEBCOPY
	a partitioned data set or PDSE	IEBCOPY
	a sequential data set	IEBGENER
Re-create	a partitioned data set or PDSE	IEBCOPY
Rename	member of a partitioned data set or PDSE	IEBCOPY
	a sequential or partitioned data set, or PDSE	IEHPROGM
	moved or copied members of a partitioned data set	IEHMOVE
ReNUMBER	logical records	IEBUPDTE
Replace	a password	IEHPROGM
	logical records	IEBUPDTE
	records in a member of a partitioned data set or PDSE	IEBUPDTE
	selected members of a PDSE	IEBCOPY
	selected members of a partitioned data set	IEBCOPY
Scratch	a volume table of contents	IEHPROGM
	data sets	IEHPROGM
Uncatalog	data sets	IEHPROGM
Unload	a partitioned data set	IEBCOPY
	a sequential data set	IEHMOVE
	an indexed sequential data set	IEBISAM
	a PDSE	IEBCOPY
Update in place	a partitioned data set or PDSE	IEBUPDTE



2 Utility Control Statements

Utility control statements are used to identify a particular function to be performed by a utility program and, when required, to identify specific volumes or data sets to be processed.

Utility control statements are usually included in the input stream. However, they may also be placed in a sequential data set, or in a member of a partitioned data set or PDSE.

The data set must have fixed or fixed blocked records with a logical record length of 80.

The control statements for the utility programs have the following standard format:

label operation operand comments

When included, a name must begin in the first position of the statement and must be followed by one or more blanks.

label	Can contain from 1 to 8 alphanumeric characters.
operation	Identifies the type of control statement. It must be preceded and followed by one or more blanks.
operand	Made up of one or more keyword parameters, separated by commas. The operand field must be preceded and followed by one or more blanks. Commas, parentheses, and blanks can be used only as delimiting characters.
Comments	Can be written in a utility statement, but they must be separated from the last parameter of the operand field by one or more blanks.

2.1 Continuing Utility Control Statements

Utility control statements are coded on cards or as online input and are contained in columns 1 through 71.

- C A statement that exceeds 71 characters must be continued on one or more additional records.
- C A non blank character must be placed in column 72 to indicate continuation.

The continued portion of the utility control statement must begin in column 16 of the following record.