

This Library Memo announces the release and availability of "Updating Package A to SPERRY Operating System/3 (OS/3) MAPPER 80 Manual Functions User Guide", UP-9735.

MAPPER 80 is a general online report processing system that uses a report structured data base. You do not have to understand programming to use MAPPER 80. Users can create and delete reports; manipulate data within reports; design new formats and applications; execute runs; and design new runs.

Manual functions are used from a workstation to create, display, print, and manipulate data in MAPPER 80 reports.

This manual describes the MAPPER 80 manual functions and provides examples of their use. The reports used in the examples are from the self-training data base supplied with the MAPPER 80 system; this allows the user to practice using manual functions while using this manual.

This update provides expanded coverage for:

- Data entry using upper or lowercase characters
- Trailer lines in RID 0
- The CONNECT command
- Using the update functions
- Using the CHANGE, SORT, and AUXILIARY reference functions.

Copies of Updating Package A are now available for requisitioning. Either the updating package only or the complete manual with the updating package may be requisitioned by your local Sperry representative. To receive only the updating package, order UP-9735–A. To receive the complete manual, order UP-9735.

	LIBRARY MEMO AND ATTACHMENTS	THIS SHEET IS
Mailing Lists BZ, CZ, MZ, 28U, 29U,	Mailing Lists BOO and B36 (Package A to UP-9735, Cover and 35 pages plus Memo)	Library Memo for UP-9735–A
		RELEASE DATE:

UD1-251 Rev. 11/83

September, 1984



This Library Memo announces the release and availability of "SPERRY<sup>®</sup> Operating System/3 (OS/3) MAPPER 80 Manual Functions User Guide", UP-9735.

MAPPER 80 is a general online report processing system that uses a report structured data base. You do not have to understand programming to use MAPPER 80. Users can create and delete reports, manipulate data within reports, design new formats and applications, execute runs, and design new runs.

MAPPER 80 capabilities include column-formed report entry, storage, retrieval, updating, and hard copy output. For column-formed reports, report processing functions include searching, sorting, matching, totalizing, and character-string location and change.

Run functions automate and speed report processing when manual functions are combined and used repetitively.

Manual functions are used interactively from a workstation to create, display, print, and manipulate data in MAPPER 80 reports.

This manual describes MAPPER 80 manual functions and provides examples of their use. The reports used in the examples are from the self-training data base supplied with the MAPPER 80 system; this allows the user to practice the manual functions while using this manual.

This user guide is one of a series of MAPPER 80 manuals designed to instruct both novice and experienced users in the MAPPER 80 system. Current versions of the following MAPPER 80 manuals are also available:

LIBRARY MEMORATOR

- Introduction, UP-10000
- Forms generation and utilities user guide, UP-9736
- Run functions user guide UP-9734

ELIBRARY MEMO ONLY

Operator and coordinator user guide, UP-9737

Additional copies may be ordered by your local Sperry representative.



Mailing Lists BZ, CZ and MZ

Mailing Lists BOO, B36, 28U, and 29U (Cover and 172 pages) Library Memo for UP-9735

RELEASE DATE:

December, 1983

# MAPPER 80 Manual Functions





This document contains the latest information available at the time of preparation. Therefore, it may contain descriptions of functions not implemented at manual distribution time. To ensure that you have the latest information regarding levels of implementation and functional availability, please consult the appropriate release documentation or contact your local Sperry representative.

Sperry reserves the right to modify or revise the content of this document. No contractual obligation by Sperry regarding level, scope, or timing of functional implementation is either expressed or implied in this document. It is further understood that in consideration of the receipt or purchase of this document, the recipient or purchaser agrees not to reproduce or copy it by any means whatsoever, nor to permit such action by others, for any purpose without prior written permission from Sperry.

FASTRAND, SPERRY, SPERRY, SPERRY UNIVAC, SPERRY UNIVAC, UNISCOPE, UNISERVO, UNIVAC, and are registered trademarks of the Sperry Corporation. ESCORT, MAPPER, PAGEWRITER, PIXIE, SPERRYLINK, and UNIS are additional trademarks of the Sperry Corporation.

# PAGE STATUS SUMMARY

ISSUE: Update A – UP-9735 RELEASE LEVEL: 8.1 Forward

Part/Section	Page Number	Update Level	Part/Section	Page Number	Update Level	Part/Section	Page Number	Update Level
Cover/Disclaimer		А						
PSS	1	А						
Preface	1 2	A Orig.						
Contents	1 2 thru 6	A Orig.						
1	1, 2	Orig.						
2	1, 2 3 4 5 6 thru 8	Orig. A Orig. A Orig.						
3	1, 2 3 4 thru 13	Orig. A Orig.						
4	1 thru 7							
5	1 thru 14							
6	1, 2 3 thru 25	A Orig.						
7	1 2 thru 20 21 22 thru 29 30, 31 32 thru 39 40 41, 42 43, 44 45, 46	A Orig. A Orig. A Orig. A Orig. A Orig.						
8	1 thru 16 17 18 thru 29	Orig. A Orig.						
9	1 2 3 thru 5	Orig. A Orig.						
Appendix A	1 thru 3 4	Orig. A						
Index	1 thru 6 7	Orig. A						
User Comment Sheet								

All the technical changes are denoted by an arrow  $(\Longrightarrow)$  in the margin. A downward pointing arrow  $(\Downarrow)$  next to a line indicates that technical changes begin at this line and continue until an upward pointing arrow  $(\uparrow)$  is found. A horizontal arrow  $(\Longrightarrow)$  pointing to a line indicates a technical change in only that line. A horizontal arrow located between two consecutive lines indicates technical changes in both lines or deletions.

.

# Preface

This manual is one of a series designed to instruct and guide the SPERRY Operating System/3 (OS/3) MAPPER 80 user.

MAPPER 80 software conforms to your needs. With this manual, you can understand the manual functions of the MAPPER 80 software without having any knowledge of computer programming.

This manual explains the interactive (manual) functions of the MAPPER 80 software and is arranged so that you can practice these functions while operating from a workstation. You can practice the functions directly on the workstation screen; this is the best way to learn MAPPER 80 software. The sample data used in the examples in this manual is contained within the MAPPER 80 data base. You should freely use this data in conjunction with the explanations given here.

Once you master the interactive manual functions, three additional manuals are available to give you an overall understanding of how to use MAPPER 80 software:

MAPPER 80 system operator and coordinator user guide, UP-9737 (current version)

Discusses MAPPER 80 operations, including system generation and data base system coordination.

MAPPER 80 run functions user guide, UP-9734 (current version)

Describes a powerful set of procedure-like run functions that call sequences of manual functions to manipulate reports or the data within them.

MAPPER 80 form generation and utilities user guide, UP-9736 (current version)

Describes how to generate forms and use MAPPER 80 utilities.

This manual is divided into nine sections:

Section 1. MAPPER 80 Software Overview

Provides an overview of the MAPPER 80 environment.

Section 2. Basic Concepts of MAPPER 80 Software

Describes the MAPPER 80 software configuration, reports, results, and the self-training data base.

Section 3. What You Must Do before and after a MAPPER 80 Session

Explains how to access MAPPER 80 software and the methods for using manual functions.

Section 4. Report Access Functions

Describes common functions that access and display reports and results.

Section 5. How to Use Line 0 for Report Positioning

Explains how to use line 0 for report display and positioning.

Section 6. Update Functions

Describes the functions that update reports and results.

Section 7. Reference Functions

Explains functions that reference specified data in a form type, report or result.

Section 8. Calculation Functions

Describes functions that move, fill, or perform various vertical and horizontal arithmetic operations on fields within a report or result. This section also explains how to control the display of headers for calculation results.

Section 9. Printout Functions

Tells how to print out reports or results on the system printer or an auxiliary printer.

Appendixes

Appendix A presents summary tables listing all the MAPPER 80 manual functions, the fast access method for each function, and the options available with each function. Appendix B describes statement conventions used throughout this manual.

· •

# Contents

3–1

# PAGE STATUS SUMMARY

PREFACE

# CONTENTS

# 1. MAPPER 80 SOFTWARE OVERVIEW

1.1.	OBJECTIVE OF MAPPER 80 SOFTWARE	1-1
1.1.1.	The MAPPER 80 Coordinator	1–1
1.1.2.	Security	1–2
1.1.3.	The MAPPER 80 Software and the Workstation	1–2

# 2. BASIC MAPPER 80 CONCEPTS

2.1.	STRUCTURE OF THE DATA BASE	2–1
2.2.	MANUAL FUNCTIONS AND RUN FUNCTIONS	2–2
2.3.	REPORTS	2-3
2.3.1.	Special Features	2–3
2.3.2.	Report Format	2–3
2.3.3.	System Control Lines (Line 0, Line 1)	2–3
2.3.4.	OS/3 System Message Display and Line Control (L)	2–4
2.3.5.	Error Display and Last Line Redisplay Function (LL)	2–4
2.3.6.	Line Types	2–5
2.3.6.1.	Trailer Lines	2–5
2.4.	RESULTS	2–6
2.5.	SELF-TRAINING DATA BASE	2–6
2.6.	TRANSMITTING MAPPER 80 SCREENS	2–6

# 3. WHAT YOU MUST DO BEFORE AND AFTER A MAPPER 80 SESSION

3.1. LOGGING ON TO THE OS/3 SYSTEM

3.2.	CONNECTING THE WORKSTATION TO THE MAPPER 80 JOB	3–3
3.2.1.	How to Use the CONNECT Command	3–4
3.2.2.	How to Connect Auxiliary Equipment (Printer)	3–4

HOW TO SIGN ON THE MAPPER 80 SYSTEM	3–5
HOW TO SIGN OFF	3–7
Alternate Sign-Off Methods	3–8
DISCONNECTING THE WORKSTATION FROM THE MAPPER 80 JOB	3–8
How to Disconnect Auxiliary Equipment (Printer)	3–8
LOGGING OFF THE OS/3 SYSTEM	3–8
FUNCTION SELECTION AND PARAMETER DESIGNATION	3–9
Where to Enter Functions	3–9
The Formal Access Method – Using the Function Request Screen	3–10
The Fast Access Method	3–11
How to Use the Fast Access Method	3–11
Statement Conventions for Fast Access Method	3–13
	HOW TO SIGN ON THE MAPPER 80 SYSTEM HOW TO SIGN OFF Alternate Sign-Off Methods DISCONNECTING THE WORKSTATION FROM THE MAPPER 80 JOB How to Disconnect Auxiliary Equipment (Printer) LOGGING OFF THE OS/3 SYSTEM FUNCTION SELECTION AND PARAMETER DESIGNATION Where to Enter Functions The Formal Access Method – Using the Function Request Screen The Fast Access Method How to Use the Fast Access Method Statement Conventions for Fast Access Method

# 4. **REPORT ACCESS FUNCTIONS**

4.1.	MODE FUNCTION (M)	4–1
4.2.	TYPE FUNCTION (T)	4–2
4.3.	DISPLAY FUNCTION (D)	4–3
4.4.	RELEASE FUNCTION (A)	4–5
4.5.	PREVIOUS RESULT DISPLAY FUNCTION (PRED)	4–7

# 5. HOW TO USE LINE 0 FOR REPORT POSITIONING

INTRODUCTION	5-1
POSITIONING REPORTS (LINE 0)	5–1
Line Position (LINE)	5–2
Displaying Report Formats (FMT)	5–2
Rolling (RL)	5–6
Column Shifting (SHFT)	5–7
Holding Characters (HLD CHR)	5–9
Holding Lines (HLD LN)	5–11
Rolling with Held Lines	5–13
	INTRODUCTION POSITIONING REPORTS (LINE 0) Line Position (LINE) Displaying Report Formats (FMT) Rolling (RL) Column Shifting (SHFT) Holding Characters (HLD CHR) Holding Lines (HLD LN) Rolling with Held Lines

# 6. UPDATE FUNCTIONS

6.1.	GENERAL	6–1
6.2.	LINE UPDATE FUNCTIONS	6–2
6.2.1.	SOE UPDATE Function	6–2
6.2.2.	ADD LINE Function	6–3
6.2.2.1.	Adding New Lines	6–3
6.2.2.2.	Adding Predefined Lines	6–5

7.

6.2.3. DUPLICATE LINE Function

6-7

6.2.4.	DELETE LINE Function	6–9
<b>6.2</b> .5.	ROLL BACK Function (RB)	6–10
6.2.6.	Report Security	6-12
6.2.6.1.	How to Assign a Report Password	6–12
6.2.6.2.	How to Change a Report Password	6–12
6.2.6.3.	How to Delete a Report Password	6–13
6.3.	REPORT UPDATE FUNCTIONS	6–13
6.3.1.	ADD REPORT Function (AR)	6–13
6.3.2.	DUPLICATE REPORT Function (XR)	6–16
6.3.3.	REPLACE Function (REP)	6-19
6.3.4.	ADD ON Function (ADON)	6-21
6.3.5	DELETE REPORT Function (DR)	6-22
636	DELETE RESULTS Function (DEL)	6-24
6.3.7.	UPDATE RESULTS Function (UPD)	6–25
REFERI	ENCE FUNCTIONS	
7.1.	INDEX FUNCTION (I)	7–1
7.2.	FIND FUNCTION (F)	7–3
7.3.	RESUME FUNCTION (RSM)	7–7
7.4.	BINARY FIND FUNCTION (BF)	7–8
7.5.	SEARCH FUNCTION (S)	7–10
7.5.1.	Partial Field Mask	7–13
7.5.2.	Range Search	7–14
7.5.3.	Search of Previous Result	7–15
7.5.4.	Multiple Parameters	7–16
7.5.5.	Options	7–18
7.5.5.1.	@Option – Search for Spaces	7–19
7.5.5.2.	. A Option – Search for All Line Types	7–20
7.5.5.3.	. N Option – Search for Not Condition	7–20
7.5.5.4.	. D and H Options	7–21
7.5.5.5.	. R Option – Search a Range of Reports	7–24
7.5.5.6	Slash Option (/)	7–25
7.5.5.7	Line Type Search Option (*)	7–26
7.6.	SEARCH UPDATE FUNCTION (SU)	7–27
7.7.	CHANGE FUNCTION (CHG)	7–30
7.7.1.	<b>Options Used with the CHANGE Function</b>	7–32
7.7.1.1	. A Option	7–33
7.7.1.2	. M Option	7–34
7.7.1.3	. F Option	7–35
7.7.1.4	. S Option	7–36
	T. Option	7-37

8.

9.

9–4

7.8.	MATCH FUNCTION (MA)	7–38		
<b>7.9</b> .	MATCH UPDATE FUNCTION (MAU)	7–43		
7.10.	SORT FUNCTION (SORT)	7–44		
CALCU	LATION FUNCTIONS			
8.1.	HOW TO USE THE TOTALIZE FUNCTION	8-1		
8.2.	HORIZONTAL ARITHMETIC	8–5		
8.3.	VERTICAL SUMMATION	8–8		
8.4.	AVERAGING	8–9		
8.5.	SUBTOTALING	8–10		
8.6. 8.6.1.	CUMULATION Group and Consecutive Cumulation	8–11 8–12		
8.7.	ENTRY COUNTING	8–13		
8.8. 8.8.1.	SEQUENCING Numbering of Respective Groups	8–14 8–15		
8.9. 8.9.1. 8.9.2.	NUMERIC ROUNDING Rounding Down Rounding Up	8–16 8–20 8–21		
8.10.	MOVING FIELDS OF DATA	8–21		
8.11.	FILLING FIELDS	8–22		
8.12. 8.12.1. 8.12.2. 8.12.3.	MISCELLANEOUS OPTIONS (I, O, V, AND T OPTIONS) I Option O Option V Option	8–24 8–24 8–25 8–25		
8.13.	DISPLAYING CALCULATION RESULTS	8–27		
PRINTING FUNCTIONS				
9.1. 9.1.1.	PRINT FUNCTION (PR) .EJECT Instruction	9–1 9–2		
<b>9.2</b> .	AUXILIARY FUNCTION (AUX)	9–2		
9.3.	AUXILIARY SUSPEND FUNCTION (SX)	9–3		

9.4. COP FUNCTION (COP)

# A. SUMMARY OF MAPPER 80 MANUAL FUNCTIONS

# INDEX

USER COMMENT SHEET

# FIGURES

2–1.	MAPPER 80 Data Base Structure	2–1
2-2.	Lines 0 and 1	2–4
2–3.	Contents of Report 1B	2–7
2–4.	Contents of Report 2B	2–8
2–5.	Contents of Report 1C	2–9
2-6.	Contents of Report 1D	2–9
3–1.	OS/3 Logo Screen	3–2
3–2.	Logon Screen	3–2
3–3.	MAPPER 80 IDLE Logo	3–4
3–4.	Auxiliary Logo	3–5
3–5.	Entries on the MAPPER 80 IDLE Logo	3–5
3–6.	MAPPER 80 IDLE Logo Screen Used to Enter Training Mode	3–6
3–7.	User Logo Screen in Training Mode	3–6
3–8.	Completed User Logo Screen to Sign Off	3–7
3-9.	Entries on the Function Request Screen	3-10
3–10.	Fast Access Method Using the User Logo Screen	3-11
3-11.	Fast Access Method Using the Function Request Screen	3-12
3-12.	Fast Access Method Using Line 0	3-12
3–13.	Fast Access Method Using the Home Position of a Mask	3-13
4–1.	MODE Function Request Screen	4–2
4–2.	MODE Type Table	4–3
4–3.	DISPLAY Function Request Screen	4-4
4–4.	Using the RELEASE Function	4–6
4–5.	User Logo Screen after Using the RELEASE Function	46
5-1.	Using FMT Control Position to Change Formats	5–3
5–2.	Display of Format 1	5–4
5–3.	Display of Format 2	5-4
5-4.	Display of Format 3	5–5
5–5.	Display of Format 4	5-5
5–6.	Display of Format 5	5–6
5–7.	Minus Sign in RL Control Position Indicating a Backward Roll the Next Time You	
	Press the XMIT Key	5-7
5-8.	Using the SHET Control Position for Horizontal Shifting	5-8
5-9.	Display of Shifted Report	5-8
5-10.	Using MLD UHK Position to Specify the Number of Unaracters to Hold	5-9 5 10
5-11.	Display of melo Unaracters milor to Shifting	5-10
5-12.	Specifying the number of Shift Characters	5-10

5–13.	Display of Shifted Report with Held Characters	5–11
5–14.	How to Specify the Number of Lines to Hold	5-12
5-15.	The Line Control Position Showing the First Nonheld Data Line	5–12
5-16.	Display with Held Lines before Rolling	5–13
5–17.	Display with Held Lines after Rolling	5-14
6–1.	Duplicating Lines	6–8
6–2.	Report before ROLL BACK Function	6-11
6-3.	Report after ROLL BACK Function	6-11
64.	Assigning a Report Password	6-12
65.	Changing a Report Password	6-13
6-6.	ADD REPORT Function Request Screen	6-14
6–7.	DUPLICATE REPORT Function Request Screen	6–16
6-8.	Report 2B	6-17
6-9.	Report 4B	6–18
6-10.	REPLACE Function Request Screen	6–19
6–11.	ADON Function Request Screen	6-21
6–12.	DELETE REPORT Function Request Screen	6–23
7-1.	INDEX Function Request Screen	7–1
7–2.	FIND Function Request Screen	7-4
7–3.	BINARY FIND Function Request Screen	7–8
7-4.	SEARCH Function Request Screen	7-10
7–5.	Using the D Option to Search	7–21
<b>7–6</b> .	Result Screen from D Option	7-22
7-7.	Using the H Option	7-22
7–8.	Result Screen from H Option	7–23
<b>7–9</b> .	Using Both the D and H Options	7–23
7–10.	Result Screen from D and H Options	7–24
7–11.	SEARCH UPDATE Function Request Screen	7–28
7–12.	CHANGE Function Request Screen	730
7–13.	Report before Using the CHANGE Function	7–31
7–14.	Report after Using the CHANGE Function	732
7–15.	MATCH Function Request Screen	7-39
7–16.	Function Masks for the Issuing and Receiving Reports	7–40
7–17.	SORT Function Request Screen	7–44
8–1.	TOTALIZE Function Request Screen	8–1
9–1.	PRINT Function Request Screen	9–1
9–2.	AUXILIARY Function Request Screen	9–2
9–3.	COP Function Request Screen	9–4

# TABLES

,

3–1.	Summary of Operations Used before and after a MAPPER 80 Session	3–9
8–1.	Parameters for TOTALIZE Function	8–2
8-2.	TOTALIZE Function Options	8–3
<b>8–3</b> .	Twelve Increments of Rounding Used with R, U, and D Options	8–16
A–1.	MAPPER 80 Functions Summary	A-1
A–2.	MAPPER 80 Functions – Fast Access Method	A–3
A-3.	Option Summary Table	A-4

# 1. MAPPER 80 Software Overview

# **1.1. OBJECTIVE OF MAPPER 80 SOFTWARE**

MAPPER 80 software is a general use, interactive, report-processing system.

You can use the MAPPER 80 software with reports in free format or reports that have a predetermined form. You can perform input, storage, inquiry, updating, and output of hard copy. For reports with a designated format, you can use report processing functions for searching, sorting, matching, totalizing, character string searching, and changing. You perform all these functions at the workstation using interactive mode.

When you repeat a series of manual functions, such as fixed form handling of a report, data search, sorting, and all types of calculations, you can record that pattern for subsequent use in a run. You can conveniently execute that series of functions by calling the run from the workstation. See the MAPPER 80 run functions user guide (UP-9734) for further information about run functions.

# 1.1.1. The MAPPER 80 Coordinator

You control most MAPPER 80 operations, such as creating, updating, deleting, formatting new reports, and planning new runs. However, a MAPPER 80 coordinator is required to supervise the overall use of the MAPPER 80 software. The coordinator's supervisory duties include planning, development, and use of report data bases, and the interfacing of those reports with the other application files of the MAPPER 80 software.

In addition, the MAPPER 80 coordinator establishes and coordinates the security of data bases, and plans, implements, and assists with an education and training program for MAPPER 80 users.

# 1.1.2. Security

The amount of security you need depends on the content of the data and the way it is used. MAPPER 80 software provides several types of security, covering factors from the range of use of the data base to the handling function of the individual reports. To use the MAPPER 80 system, you must be registered in the system through the MAPPER 80 coordinator. The MAPPER 80 coordinator will consult with you to determine your security needs.

# 1.1.3. MAPPER 80 Software and the Workstation

You access MAPPER 80 software through a workstation.

There are three types of workstation configurations for System 80. One type is attached directly to the computer and is called a local workstation. The second and third types are connected to the computer through communications software and are called a remote workstation or terminal.

To the MAPPER 80 user, the main difference between the types is that remote workstations and terminals require an extra step in the logon procedure for you to access the MAPPER 80 data base (see 3.1).

Unless there are specific differences to the MAPPER 80 user (as in the logon procedure), we use the general term workstation to refer to all configurations.

# 2. Basic MAPPER 80 Concepts

# 2.1. STRUCTURE OF THE DATA BASE

There are three data classifications recorded in a MAPPER 80 data base: mode, type, and report.

To better understand the MAPPER 80 data base, picture it as a group of filing cabinets, as in Figure 2–1.



Figure 2-1. MAPPER 80 Data Base Structure

Mode indicates a basic data grouping, and is illustrated in Figure 2–1 by a pair of numbers at the top of each filing cabinet. Odd numbered modes allow you to read but not update data. You can both read and update data in even-numbered modes. The MAPPER 80 coordinator assigns the specific mode numbers. The coordinator uses an odd numbered mode to prevent accidental destruction of a report.

Each mode (or each cabinet in Figure 2–1) is made up of eight form types (drawers). The data within each form type has basically the same headers, format, and line length, and is thought of as the same type of report. The form types of each mode are lettered from B to I. Type A contains free format reports, and you can access it from any mode.

When signing onto the MAPPER 80 system (3.3), you select a mode. All subsequent references are to the data in that mode. You cannot reference data in other modes until you explicitly change modes. (See 4.2.1.)

Within each type (or each drawer in Figure 2-1), there are a number of reports (folders). Each report has its own number, which is referred to as a RID (report identifier). All reports are specified by mode, type, and RID.

Each report is made up of lines, and every line is made up of 80 to 132 characters. Each line within a report contains the same number of characters.

# 2.2. MANUAL FUNCTIONS AND RUN FUNCTIONS

Each action used to manipulate data is called a manual function. For example, commonly used functions are DISPLAY, FIND, SOE UPDATE, SEARCH, MATCH, and SORT. You enter manual functions from a workstation.

A quick reference table covering all the MAPPER 80 manual functions appears in Appendix A, along with the method of calling each function.

A sequence of functions could be repetitively executed as a typical operation. Use a run to automatically execute these repetitive operations. By combining and storing any number of run functions in a run, you can later execute them using a single key-in procedure. The run functions are described in the MAPPER 80 run functions user guide, UP-9734 (current version).

# 2.3. REPORTS

# 2.3.1. Special Features

MAPPER 80 reports can have a maximum of 132 characters per line. Most reports contain less than 1000 lines. The MAPPER 80 coordinator determines the size of each report and the number of reports used in one form type.

You can enter MAPPER 80 commands and data in either uppercase or lowercase; however, MAPPER 80 software translates everything to uppercase. Therefore, lowercase data cannot be stored in MAPPER 80 reports.

You can add or delete reports from the MAPPER 80 data base using manual functions.

# 2.3.2. Report Format

The report format refers to the arrangement of the data within the report (form). You can create up to six variations of one basic format and then select the format you want to use during a MAPPER 80 session.

A RID 0 is assigned to each report to indicate which form type it falls under. The RID 0 is explained in the MAPPER 80 form generation and utilities user guide UP-9736 (current version).

# 2.3.3. System Control Lines (Line 0, Line 1)

The first line on the display screen controls the display of the report on the screen and is called line 0. Line 0 consists of fields that control the positioning of the reports (Section 5). The report displayed on the screen starts with the line after line 0.

The first line of any report is called line 1. The following is a typical line 1:

.DATE 83/06/10 16:30:46 TYPE=B RID=001 82/12/23 JDOE < 30 LINES> where: 83/06/10 Is the date of the last update. 16:30:46

Is the time of the last update.

```
TYPE=B
Is the report type (A through I).
```

## RID=ØØ1

Is the report number and is unique within a form type.

## 82/12/23

Is the date of origin of the report or the date the report was last replaced.

JDOE

Identifies the last user to update the report.

## <30 LINES>

Is the number of lines processed or generated by a function. For example, if you display report 2B (Figure 2–4), the number of lines processed is 48. This includes every line after line 0, up to and including the \*\*END REPORT\*\*. If you search report 2B for SH in the ST CD field, the generated result is 20 lines.

Figure 2–2 shows an example of line 0 and line 1 together.

LINE 1 FMT RL SHFT HLD CHR HLD LN PSWD > .DATE 83/06/20 15:23:42 TYPE=B RID=002 82/08/11 JDOE < 48 LINES <

Figure 2–2. Lines 0 and 1

# 2.3.4. OS/3 System Message Display and Line Control (L)

OS/3 system messages are displayed on the screen during a MAPPER 80 session. Because these messages appear on the first two lines of the screen, line 0 and line 1 disappear whenever a message is displayed. You can redisplay these two lines at any time by keying in the letter L in the home position (at the upper left corner of the screen) and press the XMIT (transmit) key.

# 2.3.5. Error Display and Last Line Redisplay Function (LL)

If you make an error in an instruction or make an incorrect specification during a MAPPER 80 session, an error message immediately appears on the last line of the screen. If an error message appears while a report is on the screen, the error message wipes out the last line of data on the screen. To redisplay this data line, key in the letters LL in the home position or after the start-of-entry (SOE) symbol on line 0, and press the XMIT key.

# 2.3.6. Line Types

Three types of lines are utilized in a MAPPER 80 report:

1. Tab lines

Tab lines begin with a tab character. Note that the tab character itself is invisible and does not appear on the screen.

Tab type lines are edited, i.e., scanned for allowable characters. The characters (alphabetic, numeric, blank, or combinations) must agree with the input edit codes made when the form type was generated. Tab type lines can be from 80 to 132 characters in length and are controlled by format changes. Most lines of data in a report are tab type lines.

2. \* lines

These lines begin with an asterisk (\*).

Asterisk type lines are not edited, i.e., not scanned for allowable characters. Asterisk type lines can be from 80 to 132 characters in length and are controlled by format changes. In search and sort results, asterisk type lines follow tab type lines as trailer lines. Asterisk type lines are used for column headings.

3. . lines

These lines begin with a period (.).

Period type lines are not edited, i.e., not scanned for allowable characters. Period type lines can be up to 80 characters in length and do not shift with format changes. In search and sort results, period type lines follow tab and asterisk type lines as trailer lines. Period type lines are used for comments following lines of data. The system usually generates lines 1 and 2, which contain general header information, as period type lines.

# 2.3.6.1. Trailer Lines

An \* or . line that follows a tab line within a report is called the trailer line of the tab line that immediately precedes it. This trailer line usually is an extension to the tab line.

You usually use the reference functions (Section 7) with a tab line as the objective. (See note.) When the reference function result is displayed, the tab line to which the reference is made and its trailer line are displayed.

## NOTES:

1. You can use options to specify \* and . lines as reference objectives (7.5.5).

2. You must generate at least one blank asterisk (\*) and one blank period (.) type line in the predefined lines of RID 0. For more information about generating predefined lines, see MAPPER 80 Forms Generation and Utilities User Guide, UP-9736 (current version). See subsection 6.2.2.2 of this manual for information about adding predefined lines to a report.



# 2.4. RESULTS

Some MAPPER 80 manual functions produce a temporary display screen called a result. You can see when a screen is a result because PP RESULT PP or P UPRESULT P is displayed on the right of line 0 in the PSWD field.

You create a result by using certain functions on a report or on another result. A result is erased from the workstation screen when you perform another function. For example, when a report is displayed, the display is of the report, not a result. But if, for example, you use the TOTALIZE function to perform arithmetic calculations on fields within a report, the screen displayed afterwards shows a result, not a report.

You can then use the TOTALIZE function on this result to produce another result, or you can use another function on the report or the result. In either case, as soon as you use a subsequent function, the previous result is erased from the screen. However, you can once again display the previous result using the PREVIOUS RESULT DISPLAY (PRED) function. This is discussed in 4.5.

If you produce a result that you want to save, use the DUPLICATE REPORT function (6.3.2) or the REPLACE function (6.3.3).

# 2.5. SELF-TRAINING DATA BASE

MAPPER 80 software provides a self-training data base that you can use to practice MAPPER 80 functions. This data base is stored in the education mode.

The examples in this manual explain MAPPER 80 functions using the data base in the educational mode. The types of reports contained in the self-training data base are shown in Figures 2–3 through 2–6.

# 2.6. TRANSMITTING MAPPER 80 SCREENS

Most examples in this manual are shown on a screen or sequence of screens. Unless otherwise noted, assume that the entries or parameters keyed into these screens are sent to the system when you press the XMIT (transmit) key, and that screens following each other in a series are displayed after you press the XMIT key.





Figure 2–3. Contents of Report 1B

DAT	E 83/	07/( POR/	05 10:47: ATE PRODUC	50 TYPI TION ST	E=B RII Atus >	D≈002	83/0	6/29 J	IDOE	<	48 LINES
sr.	STATUS	. BY	. PRODUCT	SERIAL	. PRODUC	ORDER	. CUST	. PRODUC	PRODUC	. SHIP	.SHIP .SPC
CD.	DATE	.IN	TYPE	NUMBER	. COST	NUMBR	CODE	PLAN	. ACTUAL	DATE	ORDER.COD
==.		. = = .						. = = = = = = =	. = = = = = =	. = = = = = =	. = = = = =
IP	741224	LS	BLACKBOX1	436767		84389	AMCO	741223	741224		
IP	741225	LS	BLACKBOX1	436768		84390	AMCO	741223	741225		
IP	741219	LS	BLACKBOX2	637071		84353	INTR	741218	5 741219		
OR	750110	LS	BLACKBOX4			94754	ARCO				
SC	750110	LS	BLACKBOX5	675281		97441	FEDS	750131			
IP	741222	LS	BLACKBOX5	737582		84040	AMCO	7417.22	741222		
SH	741203	LS	BLACKBOX0	746327		54237	FEDS	741201	741202	7412.03	S8738
SH	741202	LS	BLACKBOX6	368061		54438	FEDS	741201	741201	741202	S6937
SH	741209	LS	BLACKBOX6	777324		54232	DICO	741207	7412.08	741209	S8538
SH	741203	LS	BLACKBOX6	785367		52833	ARCO	741201	741202	741203	S8934
IP	741216	LS	BLACKBOX6	926581		89381	INTR	741215	5 741216		
OR	741210	LS	BLACKBOX7			99842	FEDS				
OR	741227	LS	BLACKBOX7			99725	INTR				
SC	750108	LS	BLACKBOX7	665481		97541	FEDS	750122	2		
IP	741227	LS	BLACKBOX7	733597		84351	AMCO	741227	741227		
SH	741202	LS	BLACKBOX7	744627		44232	INTR	741201	741201	741202	S8531
IP	741215	LS	BLACKBOX7	933581		84381	FEDS	741215	5 741515		
OR	741230	LS	BLACKBOX8			92788	FEDS				
SH	741203	LS	BLACKBOX8	945327		74272	FEDS	741201	741202	7412.03	S8518
OR	741217	LS	BLACKBOX9			98755	AMCO				
OR	741210	LS	BLACKBOX9			98782	USSC				
IP	741217	LS	BLACKBOX9	538993		84781	USSC	741215	741217		
IP	741216	LS	BLACKBOX9	563787		82381	FEDS	741215	5 741216		
IP	741230	LS	BLACKBOX9	633287		84361	USSC	741230	741230		
SH	741204	LS	BLACKBOX9	714577		64231	AMCO	741201	741203	741204	S8531
SC	750110	LS	BLACKBOX9	735481		97242	USSC	750116			
IP	741215	LS	BLACKBOX9	836584		84382	FEDS	741215	741215		
OR .	741210	LS	GREENBOXI			96751	FEDS	-			
IP .	/4122/	LS	GREENBOXI	605126		84385	FEDS	741225	741227		
UR	741211	LS	GREENBOX4	100005		96652	ARCO				
112	741210	LS	GREENBOX4	436295		85381	USSC	741215	741216		
50	750103	LS	GREENBOX4	6/5411		87974	USSC	750103	5		
oC TD	/50109	LS	GREENBUX4	070484		9/942	USSC	/50109			
11	741230	15	GREENBUX4	974085		84581	INTR	/41228	5 /41230		
UK .	741210	LS	GREENBUX5	C74403		99753	DICO				
SC CI	750110	LS	GREENBOX6	b/4481		95964	FLDS	/50130			
on	741206	LS	GREENBOX7	669624		54682	AMCO	/41201	741205	741206	S8553
UK .	741228	LS	GREENBUX8	C77 + A 3		94525	FEDS	750107			
SC I	150105	LS	GREENBOX8	0//481		97929	INTR	/50105			
IP .	741225	LS	GREENBUX8	/50933		86381	FEDS	/41225	741225		
20	100110	LS	GREENBUX8	975481		99943	AMCO	/50110	l		
UK	/40310	LS	GREENBOX9		DEDODE	99951	AMCO				
			• •	END	KEPORT	• • • • •					

Figure 2-4. Contents of Report 2B

# SPERRY OS/3 MAPPER 80 MANUAL FUNCTIONS



.DATE 83/0	6/29	13:07:4	9 TYPE=	C RID=0	01 <b>8</b> 3/06	5/29 、	JDOE	<	24 LINES
. <<< CORP	ORATE	FACTORS	BASE >	>>	017 F.C	00100	DENO		
* PRODUCT .	50B .	COST	WHULE .	RETAIL	. SALLS .	DEO		DENO	DECHIME
*	NCI .		SALCS .	2222	. COMMISS.	REQ	QUANTITT.	DEno	RESULIS
BI ACKBOYI	λ	13500	16975	23675	7367 50	100			
BLACKBOX1	Α λ	13600	17000	23825	2382.00	110	1		
BLACKBOX2	λ λ	13700	17125	23000	2207 50	120	2		
BI ACKBOXS	R	13800	17250	23373	2415 00	120	10		
BLACKBOX5	B	13900	17375	24325	2432 50	140	50		
BLACKBOX6	č	14000	17500	24500	2450 00	150	100		
BLACKBOX7	č	14100	17625	24675	2467 50	160	10		
BLACKBOX8	ŭ	14200	17750	24850	2485 00	170	2.0		
BLACKBOX9	Ď	14300	17875	25025	2502.50	180	40		
GREENBOX1	Ē	13700	17125	23975	2397.50	200	80		
GREENBOX2	Ē	13900	17375	24325	2432.50	210	160		
GREENBOX3	Ē	14100	17625	24675	2467.50	220	5		
GREENBOX4	F	14300	17875	25025	2502.50	230	15		
GREENBOX5	G	14500	18125	25375	2537.50	240	25		
GREENBOX6	н	14700	18375	25725	2572.50	250	1		
GREENBOX7	I	14900	18625	26075	2607.50	260	2		
GRÉENBOX8	J	15100	18875	26425	2642.50	270	3		
GREENBOX9	K	15300	19125	26775	2677.50	280	4		

Figure 2–5. Contents of Report 1C

.DATE 83/07/05 09:2	9:51 TYPE=D RID=001 83/ R STATUS >>>	06/29 JDOE	< 20 LIN	ES>		-
*ST.ORDER . PRODUCT .	ODR.CUST. UNIT .EXTENDED	REQ'D SALE	-	•		
*CD.NUNBER. TYPE .	QTY.CODE. RETAIL . RETAIL	. DELIVR. REP	. CUSTOMER	. ADDRESS	CITY .	STATE. ZIP .REMARK.
*==.=====.=====.	****.******************************					
OR 99951S GREENBOX9	2 AMCO	750312 DJR	AMERIAN OIL CO.	7300 CENTRAL AV	NEW ORLEANS	LA 64301
OR 99951S GREENBOX7	1 AMCO	750312 DJR	AMERIAN OIL CO.	7300 CENTRAL AV	NEW ORLEANS	LA 64301
OR 99951S BLACKBOX9	1 AMCO	750312 DJR	AMERIAN OIL CO.	7300 CENTRAL AV	NEW ORLEANS	LA 64301
OR 96652S GREENBOX4	2 ARCO	750412 LSJ	ARGENTINE CORP.	2300 5TH AVE	NEW YORK	NY 33021
OR 966525 BLACKBOX5	1 ARCO	750412 LSJ	ARGENTINE CORP.	2300 5TH AVE	NEW YORK	NY 33021
OR 96652S BLACKBOX4	1 ARCO	750412 LSJ	ARGENTINE CORP.	2300 5TH AVE	NEW YORK	NY 33021
OR 99753S GREENBOX5	1 DICO	750312 LSJ	DIGITAL CORP	1782 NORTH ST	NEW YORK	NY 54002
OR 945255 GREENBOX8	1 FEDS	750312 PLR	FED SYSTEMS CORP	1566 COLUMBIA	WASHINGTON	DC 20001
OR 96751S GREENBOX1	1 FEDS	750312 PLR	FED SYSTEMS CORP	1566 COLUMBIA	WASHINGTON	DC 20001
OR 998425 BLACKBOX8	1 FEDS	750312 PLR	FED SYSTEMS CORP	1566 COLUMBIA	WASHINGTON	DC 20001
OR 998425 BLACKBOX0	1 FEDS	750312 PLR	FED SYSTEMS CORP	1566 COLUMBIA	WASHINGTON	DC 20001
OR 99752S BLACKBOX4	1 INTR	750312 LTR	INTERNATIONAL CO	3301 SUMMIT AV	CHICAGO	ILL 65320
OR 987825 BLACKBOX9	1 USSC	750312 SSF	UNION STEEL/SULFR	54 30 ALCAN AVE	SEATTLE	WASH 73001
OR 967555 GREENBOX9	1 USSC	750312 SSF	UNION STEEL/SULFR	54 30 ALCAN AVE	SEATTLE	WASH 73001
	END REPORT					

Figure 2-6. Contents of Report 1D

# 3. What You Must Do before and after a MAPPER 80 Session

# 3.1. LOGGING ON TO THE OS/3 SYSTEM

Before you can use MAPPER 80 software, you must enter the OS/3 system with a process called logging on.

To log on using a terminal or remote workstation, you must first execute the \$\$SON command as soon as the modem or other communication device is ready to operate. The format is:

▷\$\$SON xxxxyyyy

where:

 $\triangleright$ 

Is the SOE character.

ххххуууу

Is the workstation identification name. The actual name varies for each user installation. For example, you might enter:

**▷\$\$SON TRMIMPR8** 

When the SSON command is processed by the computer, the OS/3 logo is displayed on the remote workstation or terminal screen (Figure 3–1).

000000 5555	/ 333	
0000000 555555	// 2222	
0000000         55555           00         00         SS           00         00         SS	/// 33333 /// 33 /// 33 /// 33	
00 00 SS	/// 33	
00 00 SS SS 00000000 SSSSSS 000000 SSSS SPERRY INTERACTIV DEPRESS TRAN	/// 33 33 // 3333333 / 3333 /E OPERATING SYSTEM /SMIT FOR LOGON	

Figure 3–1. OS/3 Logo Screen

If you are using a local workstation, the OS/3 logo is automatically displayed when the system starts up.

Whether or not you are using a local workstation, remote workstation, or terminal, once the OS/3 logo is displayed, you can then use either of two methods to log on:

- Logon method 1
  - 1. Press the XMIT key.
  - 2. The logon screen appears as shown in Figure 3–2:

OS/3 INTERACTIVE SERVICES LOGON IDENTIFICATION: USER-ID ACCOUNT NUMBER PASSWORD OPTIONS: EXECUTION PROFILE BULLETIN LOG YES <



3. Key in the required parameters and press the XMIT key.

- Logon method 2
  - 1. Put the workstation in system mode by pressing the FUNCTION and SYS MODE key together for a workstation or press the MSG WAIT key for a terminal.
  - 2. Key in the following LOGON command:

LOGON user id, dept, options

3. Press the XMIT key.

# NOTE:

The actual values of the parameters used in logon methods 1 and 2 are determined at each user's installation.

# 3.2. CONNECTING THE WORKSTATION TO THE MAPPER 80 JOB

After you log onto the system, you must link the workstation to the MAPPER 80 job using the CONNECT command; you cannot use the UID job control statement.

Format:

CONNECT job-name,workstation-name

where:

job-name Is the MAPPER 80 job name used for each workstation.

workstation-name Is the logical name under the MAPPER 80 job used for each workstation.

Example:

CONNECT MAPPER, WKST1

NOTE:

Do not use the CONNECT command when the MAPPER 80 job is in its start-up (initialization) process. Use of the CONNECT command at this time may impair use of the workstation for the duration of the MAPPER 80 session.

# 3.2.1. How to Use the CONNECT Command

To connect the workstation to MAPPER 80 software:

- 1. Put the workstation into system mode.
- 2. Key in the CONNECT command and press the XMIT key.

After you press the XMIT key, this MAPPER 80 IDLE logo screen appears (Figure 3–3):



Figure 3–3. MAPPER 80 IDLE Logo

The MAPPER 80 IDLE logo indicates that the MAPPER 80 system is available. You use it to sign on to the MAPPER 80 system, as described in 3.3.

# 3.2.2. How to Connect Auxiliary Equipment (Printer)

Before you use the AUXILIARY (AUX) function (9.3), first execute the \$\$SON command (if you are using a remote workstation or terminal) and log on as described in 3.1 from the workstation connected to the auxiliary printer. Execute the CONNECT command as described in 3.2, but use the file name in the form WKSPn, instead of WKSTn, for example:

CONNECT MAPPER, WKSP1

When the CONNECT command is processed, the following screen (the auxiliary logo) is displayed. This indicates the auxiliary printer is available (Figure 3–4):

MAPPER 80 (2.00) (IDLE) AUXILIARY DEVICE [P01] 33 / 07 / 07 I \*\*\* N O T E S \*\*\* I I THIS IDLE LOGO IS FOR THE 'AUX' FUNCTION I I YOU CANNOT SIGN ON FROM THIS SCREEN I S050

### Figure 3–4. Auxiliary Logo

# 3.3. HOW TO SIGN ON TO THE MAPPER 80 SYSTEM

After you execute the CONNECT command, the MAPPER 80 IDLE logo is displayed on the workstation screen (Figure 3–5.):



To sign on, key in your identification name, department number, and password (if required) in the underlined sections within the parentheses of the MAPPER 80 IDLE logo screen, and press the XMIT key. (Press the TAB FWD key to move the cursor from one field to the next.)

To use the training mode, key in JDOE in the user id field and 7 in the department field, leave the password field blank, and press the XMIT key. The completed screen is shown in Figure 3–6:





After you transmit the entries in Figure 3–6, you are automatically in the training mode, and the user logo screen is displayed (Figure 3–7):

**************************************	
* 83 / 06 / 20 * **********************************	
FUNCTION () PARAMETER < >	
	5020

Figure 3–7. User Logo Screen in Training Mode

The user's identification name (JDOE), department number (007), and mode number (102) are displayed in the user logo.

NOTE:

The user's identification name (JDOE), the department number (007), and the mode number (102) of the training mode are the values given here, but they may change at different MAPPER 80 installations. If your values are different, the MAPPER 80 coordinator knows the values.

## 3.4. HOW TO SIGN OFF

When you finish a MAPPER 80 session, free the workstation using the sign off operation so that another MAPPER 80 user can use it.

To sign off, key in the letter X in the function name field on the user logo, and press the XMIT key. This is shown in Figure 3–8.

MAPPER 80 (2.00) \* \* USER [ JDOE 1 D-NO. [ 007 ] MODE [ 102 ] × \* WORK STATION [ T01 ] \* \* 83 / 06 / 24 \* \*\*\* [ ENTER FUNCTION REQUEST ] FUNCTION (x2) PARAMETER < \_ > S020

Figure 3-8. Completed User Logo Screen to Sign Off

After you press the XMIT key, the MAPPER 80 IDLE logo is once again displayed on the screen, and another MAPPER 80 user can use the workstation.

# 3.4.1. Alternate Sign-Off Methods

You can use two other methods to sign off:

- 1. While a report is displayed on the screen, key in an X in the position after the SOE mark in line 0 or in the home position, and press the XMIT key.
- 2. Key in an X in the function name field of the function request screen (Figure 3–9), and press the XMIT key.

# 3.5. DISCONNECTING THE WORKSTATION FROM THE MAPPER 80 JOB

After you sign off, the MAPPER 80 IDLE logo (Figure 3–5) is displayed. To disconnect the workstation from the MAPPER 80 system:

- 1. Put the workstation into system mode.
- 2. Key in FREE and press the XMIT key.

After you use the FREE command, the workstation is disconnected from MAPPER 80 system, but it is logged on to OS/3, so other interactive services are still available.

# **3.5.1.** How to Disconnect Auxiliary Equipment (Printer)

To disconnect the auxiliary equipment, execute the FREE command (3.5) and log off the system (3.6). Execute the \$\$SOFF command when you use a remote workstation or terminal.

# 3.6. LOGGING OFF THE OS/3 SYSTEM

When you finish using the OS/3 system, signal to the system that you are finished by logging off. To log off:

- 1. Put the workstation into system mode.
- 2. Key in LOGOFF and press the XMIT key.

After you log off, the OS/3 logo screen is displayed (Figure 3-1).

This completes the disconnect operation for a local workstation, but you must complete two additional steps to disconnect a remote workstation or terminal:

- 1. Put the remote workstation or terminal into system mode.
- 2. Key in \$\$SOFF and press the XMIT key.
## NOTE:

See Table 3–1 for a summary of the operations discussed in 3.1 through 3.6. For details on the messages and procedures discussed in 3.1 through 3.6, see the OS/3 workstation operations guide, UP–8910 (current version).

Local Workstation	Terminal or Remote Workstation
	\$\$SON command
OS/3 logon	OS/3 logon
Connect command	Connect command
Sign-on	Sign-on
MAPPER 80 use	MAPPER 80 use
Sign-off	Sign-off
Disconnect (FREE command)	Disconnect (FREE command)
OS/3 logoff	OS/3 logoff
	\$\$SOFF command

Table 3-1. Summary of Operations Used before and after a MAPPER 80 Session

## 3.7. FUNCTION SELECTION AND PARAMETER DESIGNATION

## 3.7.1. Where to Enter Functions

After you sign on to the MAPPER 80 system at a workstation, you can use all the manual functions. Each function has an assigned name that calls that function. These names are referred to as function names. To call a function, key in its function name in one of four locations and press XMIT. All four locations are equivalent to the MAPPER 80 software. You can key functions into:

1. The function name field on the user logo screen (see Figure 3–7)

The user logo screen appears directly after you sign on and after designated functions are completed.

2. The function name field in the NEW FUNCTION REQUEST field of the currently displayed function screen (see Figure 3–9)

Use this method to change functions.

3. Any control field after the SOE mark ( $\triangleright$ ) on line 0 (top line on the screen) when a report or result is displayed. (See Figure 3–12.)

4. The home position when a function mask is displayed. (See Figure 3–13.)

Use this method to change functions when a function mask is displayed. A function mask is displayed after entering certain MAPPER 80 functions. It displays the format of fields in a report, and you use it to enter parameters that direct the operation of many MAPPER 80 functions. Figure 3–13 shows an example of a function mask.

## 3.7.2. The Formal Access Method – Using the Function Request Screen

The function request screen is displayed after you enter and transmit a function name using any of the four methods discussed in 3.7.1. Each function request screen provides you with:

- The function abbreviation
- Information about the parameters available with that function
- Input fields to key in appropriate parameters
- Input fields to terminate the current function and call another function

Figure 3–9 shows the function request screen for the DISPLAY function:

1	**************************************
(	[ ENTER REQUESTED INFORMATION ]
	REPORT NO. () : '0' - '999' OR '-'
<u> </u>	TYPE < _> : 'A' - 'I' (WHEN REPORT NO. IS '-', YOU
2	FORMAT <_> : '1' - '6'
(3)	[ ENTER NEW FUNCTION REQUEST ] FUNCTION < >
<b>)</b>	PARAMETER < > S420

Figure 3–9. Entries on the Function Request Screen (Part 1 of 2)

NOTES:

- (1) This line shows the function you selected.
- (2) Use this section to key in parameters.
  - You must specify fields enclosed in parentheses ().
  - Fields enclosed between delimiters <> are optional.
- (3) Use this section to change to another function. Key in the new function in the function field. Use the parameter field when using the fast access method discussed in 3.7.3.

Figure 3–9. Entries on the Function Request Screen (Part 2 of 2)

As you key in the entries in a function request screen, press the TAB FWD key to advance the cursor from one parameter field to the next. When you key in all the required parameters, press the XMIT key.

## 3.7.3. The Fast Access Method

You can enter functions using the formal access method or the fast access method. The fast access method lets you bypass the function request screen because you can directly key in a function and any parameters. You can use the fast access method freely except for the MATCH function (7.8). The formats for using this method are provided as each function is discussed, and they are listed in Table A-2.

#### **3.7.3.1.** How to Use the Fast Access Method

There are four ways to use the fast access method:

1. Key in the function name and the parameter in the user logo screen. In Figure 3-10, the function name is D and the parameter is 2B.

*****	
* MAPPER 80 (2.00) *	
* USER [JDOE ] *	
* D-NO. [007] *	
* WORK STATION [ TO1 ] *	
* 83 / 06 / 24 * *******************	
[ ENTER FUNCTION REQUEST ]	
FUNCTION (d_)	
$PARAHETER \langle ZD \underline{V}   $	
	S020

2. Key in the function name and the parameter in the function request screen. In Figure 3–11, the function name is D and the parameter is 2B.

**************************************							
I ENTER REQUESTE	ED INFORMATION ]						
REPORT NO.	() : '0' - '999' OR '-'						
TYPE	- : 'A' - 'I' (WHEN REPORT NO. IS '-', YOU CAN OWIT TYPE)						
FORMAT	<_> : '1' - '6'						
[ ENTER NEW F Function Parameter	VUNCTION REQUEST 1        < d>     >       < 2b[2]     >       > < 2b[2]     >						

Figure 3-11. Fast Access Method Using the Function Request Screen

3. Key in the function name and parameters in line 0 when a report or result is displayed (Figure 3-12).

.DATE 83/06/10 16:28:2	9 TYPE=D RID=001 82/	IZ/Z3 JDOE <	ZU LINES>
📰 . <<< CORPORATE ORDER S	TATUS >>>		
₩ × .			
📥 * CUSTOMER . AD	DRESS . CITY	.STATE. ZIP .REMARK.	
*======================================	***************************************	*****.====.====.	
AMERIAN OIL CO. 7300	CENTRAL AV NEW ORLEANS	LA 64301	
AMERIAN OIL CO. 7300	CENTRAL AV NEW ORLEANS	LA 64301	
AMERIAN OIL CO. 7300	CENTRAL AV NEW ORLEANS	LA 64301	
ARGENTINE CORP. 2300	5TH AVE NEW YORK	NY 33021	
ARGENTINE CORP. 2300	5TH AVE NEW YORK	NY 33021	
ARGENTINE CORP. 2300	5TH AVE NEW YORK	NY 33021	
DIGITAL CORP 1782	NORTH ST NEW YORK	NY 54002	
FED SYSTEMS CORP 1566	COLUMBIA WASHINGTON	DC 20001	
FED SYSTEMS CORP 1566	COLUMBIA WASHINGTON	DC 20001	
FED SYSTEMS CORP 1566	COLUMBIA WASHINGTON	DC 20001	
FED SYSTEMS CORP 1566	COLUMBIA WASHINGTON	DC 20001	
INTERNATIONAL CO 3301	SUMMIT AV CHICAGO	ILL 65320	
UNION STEEL/SULFR 5430	ALCAN AVE SEATTLE	WASH 73001	
UNION STEEL/SULFR 5430	ALCAN AVE SEATTLE	WASH 73001	
	END REPORT		

Figure 3–12. Fast Access Method Using Line 0

4. Key in the function name and parameter in the home position when a function mask is displayed (Figure 3–13).



## 3.7.3.2. Statement Conventions for Fast Access Method

Information contained within braces represents mandatory entries. You must choose one of these entries. Information contained within brackets represents optional entries that (depending upon function use) you can include or omit.

For example, this is the fast access format for the DISPLAY function:

 $\left. \begin{array}{c} \mathsf{P} \\ \mathsf{P} \\$ 

Examples of valid entries using this format are:

D 2B,1 D 2B D -,1 D -

# 4. Report Access Functions

You should be familiar with most of the functions in this section; they provide capabilities that range from accessing other mode types to displaying reports and previous results.

All functions in this manual are presented in summary form in Appendix A.

## 4.1. MODE FUNCTION (M)

To provide some level of organizational security for the MAPPER 80 data base, you are usually allowed to work in only one mode. If you need to use another mode, ask the MAPPER 80 coordinator to register additional modes for your user id. Use the MODE function after signing on to select a mode other than your default mode, providing your user id is authorized to access other modes and you know the password of the new mode, if one exists.

NOTE:

When JDOE is signed on, you can only use the self-training mode (102).

To call the MODE function, key in M and press the XMIT key. Figure 4–1 shows the MODE function request screen.



(1) The mode number of the mode used is keyed into this field.

(2) Each mode can have a password that is assigned by the MAPPER 80 coordinator, and it is keyed into this field.



After you transmit the entries made in Figure 4-1, the mode type table of the selected mode (Figure 4-2) is displayed on the screen.

## 4.2. TYPE FUNCTION (T)

The TYPE function displays the mode type table. This table lists the types of reports (B to I inclusive) within the mode you are accessing.

To call the type function, key in T and press the XMIT key. The mode type table is then displayed (Figure 4–2).





#### NOTES:

- (1) Mode number takes the form even number/odd number.
- (2) Mode name is the name given to the mode.
- (3) Mode password is a section displaying the password assigned to the even mode, the odd mode, or both modes, but they are only available to the MAPPER 80 coordinator.
- (4) Form name shows the name given to each type. OPEN is displayed for unused types.
- (5) This is the line length of all reports within that type.

Figure 4–2. Mode Type Table

To call another function while the mode type table is displayed, key in the function name in the function name field in the lower part of the screen, and press the XMIT key.

## 4.3. DISPLAY FUNCTION (D)

The DISPLAY function displays reports on the workstation screen.

To call the DISPLAY function, key in D and press the XMIT key. The DISPLAY function request screen is shown in Figure 4–3.



```
NOTES:
```

- (1) This is the RID number of the report to be displayed.
- (2) This is the alphabetic form type of the report.
- (3) This is the format of the report. When left blank, the displayed report is format 0.

```
Figure 4–3. DISPLAY Function Request Screen
```

In Figure 4–3, key in a 1 as the RID number in the report number field. Then, press the TAB FWD key to move the cursor to the type field. Key in a D in the type field. When you leave the format field blank, format 0 is used. When the screen is complete, press the XMIT key.

The fast access format for the DISPLAY function is:

```
D {rt[,f]
-[,f] }
```

where:

```
r
Is the RID number.
```

Is the type.

f

t

Is the format number.

rt[,f]

Specifies the report is not displayed.

-[,f]

Specifies the report is displayed.

Example:

To perform the operation in Figure 4–3, key in D 1D.

The result is the same for both methods.

The next screen displays report 1D:

LINE> 1 FMT> R	L> SHFT> HLD	CHR♭ HLD LN♭	PSWD⊳ ⊳
.DATE 83/06/10 16:	28:29 TYPE=D RID=001	82/12/23 JDOE	< 20 LINES>
. <<< CORPORATE ORD	ER STATUS >>>		
ST.ORDER . PRODUCT	ODR.CUST. UNIT .EXTEN	IDED.REQ'D .SALE	•••
*CD.NUMBER. TYPE	.QTY.CODE. RETAIL . RETA	AIL .DELIVR.REP	. CUSTOMER .
*==.=====.========		****	
OR 99951S GREENBOX9	2 AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 99951S GREENBOX7	1 AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 999515 BLACKBOX9	1 AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 966525 GREENBUX4	2 ARCU	750412 LSJ	ARGENTINE CORP. 23
OR 966525 BLACKBUAD		750412 LSJ	ARGENTINE CORP. 23
CK 900323 DLACKDUA4		750412 LOU 750212 IST	DICITAL CORP. 43
$= OR 337333 GREENBOAS \\= OP 945255 GPFFNBOXS$	1 DICO	750312 L55	FED SYSTEMS CODD 15
OR 967515 GREENBOXU	1 FFDS	750312 PLR	FED SYSTEMS CORP 15
OR 998425 BLACKBOX8	1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 99842S BLACKBOXO	1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 997525 BLACKBOX4	1 INTR	750312 LTR	INTERNATIONAL CO 33
OR 987825 BLACKBOX9	1 USSC	750312 SSF	UNION STEEL/SULFR 54
OR 967555 GREENBOX9	1 USSC	750312 SSF	UNION STEEL/SULFR 54
	END REPORT		

## 4.4. RELEASE FUNCTION ( $\land$ )

The RELEASE function erases the data currently displayed on the screen and returns the screen to the status immediately following sign-on (that is, the user logo is displayed).

To call this function, key in  $\land$  (the caret character) and press the XMIT key. This is shown in Figure 4–4.

LINE» ^ FNT» RL» SHFT» HLD CHR» HLD LN»	PSWD»
.DATE 83/06/20 15:23:42 TYPE=B RID=002 82/08/11 JDOE	< 48 LINES>
. <<< CORPORATE PRODUCTION STATUS >>>	
*ST. STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PROD	DUC. SHIP .SHIP .SPC.
KCD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTU	JAL. DATE .ORDER.COD.
***.*****.**.**.***********************	
IP 741224 LS BLACKBOX1 436767 84389 AMCO 741223 7412	224
IP 741225 LS BLACKBOX1 436768 84390 AMCO 741223 7412	225
IP 741219 LS BLACKBOX2 637071 84353 INTR 741218 7412	219
OR 750110 LS BLACKBOX4 94754 ARCO	
SC 750110 LS BLACKBOX5 675281 97441 FEDS 750131	
IP 741222 LS BLACKBOX5 737582 84040 AMCO 741222 7412	222
SH 741203 LS BLACKBOX0 746327 54237 FEDS 741201 7412	202 741203 <b>5</b> 8738
SH 741202 LS BLACKBOX6 368061 54438 FEDS 741201 7412	201 741202 S6937
SH 741209 LS BLACKBOX6 777324 54232 D1C0 741207 7412	208 741209 58538
SH 741203 LS BLACKBOX6 785367 52833 ARCO 741201 7412	202 741203 58934
IP /41216 LS BLACKBOX6 926581 89381 INTR /41215 /412	216
UK /41210 LS BLACKBOX/ 99842 FLDS	
TO 741227 LC DLAUNDUA/ 000401 9/041 FEDD /00122	27
E IT /7144/ LO DENGROUX/ /3003/ 04301 ARCU /414/ /414 E CN 741000 IC DINCKDON7 744607 44000 741001 7410	667 201 741202 80521
E DE 741216 LO DERCROUX/ 19902/ 94232 INIK 141201 1412 E TD 741215 TO DERCROUX/ 022501 04201 FERC 741215 7415	LUI /41202 30331
■ IL /TI2IO LO DERCROUX/ 30001 04001 FED0 /41210 /410 ■ OD 741020 19 DERCROUX 30001 02700 FED0	515

Figure 4-4. Using the RELEASE Function

The RELEASE function displays the user logo. The user logo displays information, including your name and mode. In Figure 4–5, the user JDOE is currently logged on to mode 102:

	124
***************************************	
■ ★ MAPPER 80(2.00) ★	
* *	
* USER ( JDOE 1 *	
[ ENTER FUNCTION REQUEST ]	
	S020
	=

Figure 4-5. User Logo Screen after Using the RELEASE Function

# 4.5. PREVIOUS RESULT DISPLAY FUNCTION (PRED)

The PREVIOUS RESULT DISPLAY function redisplays the result previous to the one on the current screen. This function is especially useful when you want to use the contents of the previous result to verify the contents of the present result. In addition, you can use the redisplayed result as input to other functions.

To call this function, key in PRED and press the XMIT key.

. .

# 5. How to Use Line 0 for Report Positioning

## 5.1. INTRODUCTION

MAPPER 80 reports have a basic format, and you can create up to six variations of the basic report format (2.3.2). If the basic format or any variation of it are physically too wide (longer than 80 columns) for complete display on a workstation screen, you can display the undisplayed portion (columns 81 to 132) by using the SHFT function of line 0. Line 0 also lets you display selected data and formats. The uses of line 0 are discussed in the following section.

NOTE:

To use line 0 for redisplaying data that is erased due to an error or system messages during a MAPPER 80 session, see 2.3.4 and 2.3.5.

## 5.2. POSITIONING REPORTS (LINE 0)

Use the control line to position your report vertically and horizontally on the workstation screen.

The following is a typical control line. Each of the fields is called a control position except the last, which is used for password functions and as a result indicator.

-												
	LINEÞ	1	FHT⊳	RL⊳	SHFT⊳	HLD	CHR♭	HLD	LN⊧	PSWDD	Þ	

where:

LINE

Is the number of the first nonheld line on the screen.

FMT

Is the number of the predefined format for the report. A blank indicates that the basic format is on display.

#### RL

Is the number of lines to roll the report up (blank or +) or down (–). Transmitting with no quantity specified rolls the display one full screen (23 lines).

#### SHFT

Is the number of characters to shift the report left (blank or +) or right (-) on the screen. Transmitting with no quantity specified shifts the display one screen (79 characters). The first character is always fixed.

HLD CHR

Is the number of characters held on the left side of the screen.

HLD LN

Is the number of lines held at the top of the screen.

#### PSWD

Is used to set, change, or erase a report password. The following appears in this field when applicable:

RESULT

Indicates that the display on the screen is a result.

UPRESULT

Indicates that the display on the screen is an update result of a SEARCH UPDATE or MATCH UPDATE function.

## 5.2.1. Line Position (LINE)

The LINE control position indicates the number of the first data line on the screen. To go to a specific line in a report, enter the specific line number in the LINE position and press the XMIT key. This displays another screen containing your specified line as the first line below the control line or any held lines.

To go to the last line in a report, enter a number that is larger than the report size, e.g., 999, and transmit. To return to line 1, enter a 1 in the LINE position and press the XMIT key.

### 5.2.2. Displaying Report Formats (FMT)

You can display your report in any of the up to six formats defined in RID 0 of the same form type. RID 0 is a control RID generated by the MAPPER 80 coordinator. With the defined formats, you can selectively display fields of data. This is especially useful for displaying reports with data lines longer than 80 characters.

If you do not specify a format when you display a report, the request assumes the basic format of the form type. The basic format is the leftmost 80 characters of a report. Whenever a report is on display, the format displayed appears in the FMT control position, as follows:

Blank 1–6

Basic format Formats 1 through 6

When you specify an undefined format, the date line, report title line, and the first column of the remaining lines of RID 0 of that form type are displayed.

To select a format, display a report, press the TAB key to move the cursor to the FMT control position, and enter a format number. After report 1D is displayed, format 1 is keyed into the FMT control position in Figure 5-1.

		· · · ·			
LINE   FMT   121R	_⊳ SH	IFT HLD	CHR⊳ HLD	LNÞ PSWDÞ	Þ
.DATE 83/06/10 16:3	28:29 TYPE	=D RID=001	82/12/23 JI	)OE <	20 LINES>
. <<< CORPORATE ORD	ER STATUS	>>>			
*ST.ORDER . PRODUCT	ODR.CUST.	UNIT .EXTE	NDED.REQ'D .S	SALE.	
*CD.NUMBER. TYPE	QTY.CODE.	RETAIL . RET	AIL .DELIVR.F	REP . CUSTO	MER .
	.===.==.=	.======	====,====,=		
OR 999515 GREENBOX9			750312 1	UR AMERIAN (	$\frac{11}{11} \begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7$
OR 999515 GREENDUA/			750312 1	TR AMERIAN (	$\begin{array}{ccc} 111 & 0 \\ 111 & 0 \\ 111 & 73 \\ 111 $
OR 966525 GREENBOX4	2 ARCO		750412 [	SJ ARGENTIN	CORP. 23
OR 96652S BLACKBOX5	1 ARCO		750412 L	SJ ARGENTIN	CORP. 23
OR 96652S BLACKBOX4	1 ARCO		750412 L	SJ ARGENTIN	CORP. 23
OR 99753S GREENBOX5	1 DICO		750312 I	LSJ DIGITAL (	CORP 17
OR 94525S GREENBOX8	1 FEDS		750312 F	PLR FED SYSTE	EMS CORP 15
OR 96751S GREENBOX1	1 FEDS		750312 F	PLR FED SYSTE	EMS CORP 15
OR 99842S BLACKBOX8	1 FEDS		750312 F	PLR FED SYSTE	EMS CORP 15
OR 99842S BLACKBOX0	1 FEDS		750312 H	PLR FED SYSTE	MS CORP 15
OR 99752S BLACKBOX4	I INTR		750312 L	LTR INTERNATI	UNAL CO 33
OR 987825 BLACKBOX9			750312 2	SSE UNION STR	LEL/DULIK 54
OK 30/222 GKEENBOX3	1 0550	DEDODT	/50312 3	SOL ONTON 211	SEL/BULFK 34
	END	REPURI			

Figure 5–1. Using FMT Control Position to Change Formats

The report in Figure 5–1 is wider than 80 characters. Note that the start of the customer addresses is on the right side of the screen.

\_\_\_\_\_

Press the XMIT key to display the report in format 1 (Figure 5–2):

≣ LINE¢ I FMT¢ ∐∠IRL≬	SHFT⊅	HLD CHR>	HLD LN⊅	PSWD⊳	⊳ ≣
.DATE 83/06/10 16:28	:29 TYPE=D	RID=001 82/12	2/23 JDOE	<	20 LINES>
. <<< CORPORATE ORDER	STATUS >>>				
* .					
* CUSTOMER .	ADDRESS	. CITY	.STATE. ZIP	. REMARK .	
*=================		.==================		.======	
🔤 AMERIAN OIL CO. 730	0 CENTRAL AV	NEW ORLEANS	LA 64301		
📕 AMERIAN OIL CO. 730	O CENTRAL AV	NEW ORLEANS	LA 64301		
AMERIAN OIL CO. 730	O CENTRAL AV	NEW ORLEANS	LA 64301		
ARGENTINE CORP. 230	0 5TH AVE	NEW YORK	NY 33021		
ARGENTINE CORP. 230	0 5TH AVE	NEW YORK	NY 33021		
ARGENTINE CORP. 230	0 5TH AVE	NEW YORK	NY 33021		
DIGITAL CORP 178	2 NORTH ST	NEW YORK	NY 54002		
FED SYSTEMS CORP 156	5 COLUMBIA	WASHINGTON	DC 20001		
FED SYSTEMS CORP 156	6 COLUMBIA	WASHINGTON	DC 20001		
FED SYSTEMS CORP 156	5 COLUMBIA	WASHINGTON	DC 20001		
FED SYSTEMS CORP 156	6 COLUMBIA	WASHINGTON	DC 20001		
INTERNATIONAL CO 330	SUMMIT AV	CHICAGO	TLL 65320		
UNION STEEL / SULFR 543	ALCAN AVE	SFATTI F	WASH 73001		
UNION STEEL/SULFR 543	ALCAN AVE	SEATTLE	WASH 73001		
	END REP	ORT	"NDN / 5001		
•					
					=

Figure 5–2. Display of Format 1

Format 1 contains all the customer addresses, some of which were off the screen when you specified no format.

Other formats display the report with the fields in the same order, but with different fields omitted. Figure 5–3 shows the display of format 2; note that the format number always appears in the FMT control position.

LINED 1 FMTD 222R	Lø SH	IFT HLD CHR HLD LND	PSWD⊳	Þ
.DATE 83/07/05 09:	29:51 TYPE	E=D RID=001 83/06/29 JDOE	<	20 LINES>
. <<< CORPORATE ORD	ER STATUS	>>>		
<b>*ST.ORDER</b> . PRODUCT	. ODR. CUST.	UNIT .EXTENDED.REQ'D .SALE.		
*CD.NUMBER. TYPE	.QTY.CODE.	RETAIL . RETAIL . DELIVR. REP .		
*==,=====,==============	.===.====.=	***************************************		
OR 99951S GREENBOX9	2 AMCO	750312 DJR		
OR 99951S GREENBOX7	1 AMCO	750312 DJR		
OR 99951S BLACKBOX9	1 AMCO	750312 DJR		
OR 96652S GREENBOX4	2 ARCO	750412 LSJ		
OR 96652S BLACKBOX5	1 ARCO	750412 LSJ		
OR 96652S BLACKBOX4	1 ARCO	750412 LSJ		
OR 99753S GREENBOX5	1 DICO	750312 LSJ		
OR 945255 GREENBOX8	1 FEDS	750312 PLR		
OR 96751S GREENBOX1	1 FEDS	750312 PLR		
OR 99842S BLACKBOX8	1 FEDS	750312 PLR		
OR 99842S BLACKBOX0	1 FEDS	750312 PLR		
OR 99752S BLACKBOX4	1 INTR	750312 LTR		
OR 98/82S BLACKBOX9	1 USSC	750312 SSF		
OR 96/555 GREENBOX9	1 USSC	750312 SSF		
	END	REPORT		

Figure 5–3. Display of Format 2

Figure 5-4 is the display of format 3:

LINE   FMT   312/RL   SHFT   HLD CHR   HLD LN   PSWD	Þ
DATE 83/06/10 16:28:29 TYPE=D RID=001 82/12/23 JDOE < 20 LINE	S>
. <<< CORPORATE ORDER STATUS >>>	
*ORDER .CUST.SALE	
<b>*NUMBER.CODE.REP</b> . CUSTOMER . ADDRESS . CITY .STATE. ZIP	
***************************************	
99951S AMCO DJR AMERIAN OIL CO. 7300 CENTRAL AV NEW ORLEANS LA 64301	
99951S AMCO DJR AMERIAN OIL CO. 7300 CENTRAL AV NEW ORLEANS LA 64301	
99951S AMCO DJR AMERIAN OIL CO. 7300 CENTRAL AV NEW ORLEANS LA 64301	
96652S ARCO LSJ ARGENTINE CORP. 2300 5TH AVE NEW YORK NY 33021	
96652S ARCO LSJ ARGENTINE CORP. 2300 5TH AVE NEW YORK NY 33021	
96652S ARCO LSJ ARGENTINE CORP. 2300 5TH AVE NEW YORK NY 33021	
99753S DICO LSJ DIGITAL CORP 1782 NORTH ST NEW YORK NY 54002	
945255 FEDS PLR FED SYSTEMS CORP 1566 COLUMBIA WASHINGTON DC 20001	
96751S FEDS PLR FED SYSTEMS CORP 1566 COLUMBIA WASHINGTON DC 20001	
99842S FEDS PLR FED SYSTEMS CORP 1566 COLUMBIA WASHINGTON DC 20001	
99842S FEDS PLR FED SYSTEMS CORP 1566 COLUMBIA WASHINGTON DC 20001	
99752S INTR LTR INTERNATIONAL CO 3301 SUMMIT AV CHICAGO ILL 65320	
98782S USSC SSF UNION STEEL/SULFR 5430 ALCAN AVE SEATTLE WASH 73001	
967555 USSC SSF UNION STEEL/SULFR 5430 ALCAN AVE SEATTLE WASH 73001	
END REPORT	

Figure 5–4. Display of Format 3

Figure 5–5 is the display of format 4:

ľ	TNES				CUETA		ת זע	CHD		DCL			
	DATE	83/06/10	16.28.	29 TY	OF IV	RID:	=001	87/17/2	ILD LN	o row	100	20	TINES
	<<<	CORPORATI	C ORDER	STATUS	5 >>>	NID	001	02/12/2	J UDUL		`	20	DINLO/
i *:	SALE.									•.	•		
≣ <u>*</u>	REP .	CUSTO	IER	. AI	DDRESS		•	CITY	. STA	TE. ZIP	. REM	ARK.	
i i i i i i i i i i i i i i i i i i i	====. סזח	AMEDIAN OF		.====:		===== x	*.=== / NEW	ODI FANG	===.===: T	A 64201	.===	===.	
	DJR	AMERIAN O		7300	CENTR	AL AV AL AV	NEW	ORLEANS	L L	A 64301			
Ī	DJR	AMERIAN O	L CO.	7300	CENTR	AL AV	NEW	ORLEANS	i	A 64301			
. [	LSJ	ARGENTINE	CORP.	2300	5TH A	VE	NEW	YORK	1	IY 33021			
	LSJ	ARGENTINE	CORP.	2300	5TH A	VE	NEW	YORK	1	IY 33021			
	LSJ	ARGENTINE	CORP.	2300	STH A	VE	NEW	YORK	1	IY 33021			
	LSJ	DIGITAL CO		1782	NORTH	ST	NEW	YORK	1	NY 54002			
		FED SISTER	IS CORP	1566	COLUM	BIA DIA	WAS	IINGTON	1	C 20001			
	PLR	FED SYSTE	IS CORP	1566	COLUM	BIA	WAS	HINGTON		C 20001			
	PLR	FED SYSTE	IS CORP	1566	COLUM	BIA	WAS	IINGTON	1	C 20001			
	LTR	INTERNATIO	NAL CO	3301	SUMMI	T AV	CHI	CAGO	II	LL 65320	)		
	SSF	UNION STEL	EL/SULFR	5430	ALCAN	AVE	SEA		WA	SH 73001			
	55r	UNION STEE	L/SULFR	5430	ALCAN	AVL በውጥ	SEA	TLE	WA	SH 73001			
			••	61			••••						

Figure 5-5. Display of Format 4

Figure 5–6 is the display of format 5:

LINE» 1 .DATE . <<<	FM1 83/06/10 CORPORA1	T⊳ 5⊠RL⊳ SH 0 16:28:29 TYPE TE ORDER STATUS	IFT> HLD C =D RID=001 8 >>>	HR♭ HLD LN♭ 2/12/23 JDOE	PSWD⊳ < 20 LINES
*ST.ODR *CD.QTY	.CUST. .CODE.	CUSTOMER .	ADDRESS	. city	STATE. ZIP
OR 2 OR 1 OR 1 OR 2 OR 1 OR 1 OR 1	AHCO AN AMCO AN AMCO AN ARCO AN ARCO AN ARCO AN ARCO AN DICO DI	MERIAN OIL CO. MERIAN OIL CO. MERIAN OIL CO. RGENTINE CORP. RGENTINE CORP. RGENTINE CORP. IGITAL. CORP.	7300 CENTRAL A 7300 CENTRAL A 7300 CENTRAL A 2300 5TH AVE 2300 5TH AVE 2300 5TH AVE 2300 5TH AVE 1782 NORTH ST	V NEW ORLEANS V NEW ORLEANS V NEW ORLEANS NEW YORK NEW YORK NEW YORK NEW YORK	LA 64301 LA 64301 LA 64301 NY 33021 NY 33021 NY 33021 NY 54002
OR 1 OR 1 OR 1 OR 1 OR 1 OR 1 OR 1	FEDS FE FEDS FE FEDS FE FEDS FE INTR IN USSC UN	ED SYSTEMS CORP ED SYSTEMS CORP ED SYSTEMS CORP ED SYSTEMS CORP NTERNATIONAL CO NION STEEL/SULFR	1566 COLUMBIA 1566 COLUMBIA 1566 COLUMBIA 1566 COLUMBIA 3301 SUMMIT AV 5430 ALCAN AVE	WASHINGTON WASHINGTON WASHINGTON WASHINGTON CHICAGO SEATTLE	DC 20001 DC 20001 DC 20001 DC 20001 ILL 65320 WASH 73001
OR 1	USSC UN	NION STEEL/SULFR	5430 ALCAN AVE REPORT	SEATTLE	WASH 73001

Figure 5-6. Display of Format 5

## 5.2.3. Rolling (RL)

The RL control position allows you to roll through a report (move vertically through the data in a report). You can roll a report forward or backward.

Enter a plus sign (+) or make no entry in the RL position to roll the report forward 23 lines. Enter a minus sign (-) to roll the report backward 23 lines. Enter a signed or unsigned numeric entry to roll the report the specified number of lines. Once you establish roll direction, subsequent transmitting rolls the display in the same direction.

The LINE position value reflects the number of the first nonheld line on the screen and changes automatically with each roll. If you roll to the last line of the report, a minus sign appears in the RL control position (Figure 5-7) and the next roll is backward. The following example uses report 1B.

LINE> 8 **FMT** RL> - 🛛 SHFT> HLD CHR> HLD LND **PSWD** XX INITIAL OF PERSON REPORTING STATUS XXXXXXXX PRODUCT TYPE NUMBER \* \* XXXXXX UNIT SERIAL NUMBER \* \* XXXXXX PRODUCTION COST XXXXX CUSTOMER ORDER NUMBER \* \* XXXX CUSTOMER CODE × PRODUCTION PLAN DATE YYMMDD XXXXXX \* PRODUCTION DATE YYMMDD ACTUAL XXXXXX × SHIP DATE YYMMDD XXXXXX ORDER TO SHIP NUMBER XXXXX SPECIAL SEARCH CODES XXX \* 750109 S4572 SH 750109 LS BLACKBOX1 455660 74536 NASA 750103 750107 74536 NASA 750103 750107 750109 54572 \*SH 750109 LS BLACKBOX1 455661 .THE ABOVE LINE IS AN EXAMPLE ITEM WHICH DENOTES: THAT THE STATUS OF THE ITEM IS SHIPPED THE STATUS WAS REPORTED ON JAN 9, 1975 BY L. . SH THE ITEM IS A BLACK BOX TYPE 1, S ITS RELATED ORDER NUMBER IS 74536 SERIAL NUMBER 455661 THE ORDER IS FOR THE CUSTOMER CODED NASA. THE ORDER IS FOR THE CUSTOMER CODED NASA. IT WAS PLANNED TO BE PRODUCED ON JAN 3, 1975 IT WAS ACTUALLY PRODUCED ON JAN 7, 1975 IT WAS SHIPPED ON JAN 9, 1975 ON SHIP ORDER NUMBER S4572 ..... END REPORT

Figure 5–7. Minus Sign in RL Control Position Indicating a Backward Roll the Next Time You Press the XMIT Key

## 5.2.4. Column Shifting (SHFT)

The SHFT control position allows you to display other than the first 80 characters of a line.

Horizontal, or column, shifting within a report means moving the screen left or right along the displayed lines of data. Positive movement shifts characters off the left side of the nonheld screen; negative movement shifts characters off the right side. The screen always displays 80 columns, displaying blanks after the last column of the report. The line type character in column 1 does not shift. Free form comment (.) lines do not shift.

To move columns numbered higher than 80 into the display, enter a positive number in the SHFT control position. Enter a negative number if you want to shift back to lower-numbered columns, but only to the point where column 1 of the report is in column 1 of the display screen.

To move one full screen (79 characters) onto the right side of the screen, enter a plus sign (+) or nothing. To move one full screen (79 characters) onto the left side of the screen, enter a minus sign (-).

UP-9735

In Figure 5–8, 10 is in the SHFT control position.

LINED 1 FMTD RI	L> SHFT> 10 HLD C	HRÞ HLD LNÞ	PSWD♭ ₽
.DATE 83/06/10 16:2	28:29 TYPE=D RID=001 82	2/12/23 JDOE	< 20 LINES>
. <<< CORPORATE ORDI	ER STATUS >>>		
<b>*ST.ORDER</b> . PRODUCT	ODR.CUST. UNIT .EXTEND	ED.REQ'D .SALE	
XCD.NUMBER. TYPE	.QTY.CODE. RETAIL . RETAIL	DELIVR.REP	. CUSTOMER .
*==,=====,========			.==============
OR 99951S GREENBOX9	2 AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 99951S GREENBOX7	1 AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 99951S BLACKBOX9	1 AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 96652S GREENBOX4	2 ARCO	750412 LSJ	ARGENTINE CORP. 23
OR 96652S BLACKBOX5	1 ARCO	750412 LSJ	ARGENTINE CORP. 23
OR 96652S BLACKBOX4	1 ARCO	750412 LSJ	ARGENTINE CORP. 23
OR 99753S GREENBOX5	1 DICO	750312 LSJ	DIGITAL CORP 17
OR 94525S GREENBOX8	1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 96751S GREENBOX1	1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 99842S BLACKBOX8	1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 99842S BLACKBOX0	1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 99752S BLACKBOX4	1 INTR	750312 LTR	INTERNATIONAL CO 33
OR 98782S BLACKBOX9	1 USSC	750312 SSF	UNION STEEL/SULFR 54
OR 967555 GREENBOX9	1 USSC	750312 SSF	UNION STEEL/SULFR 54
	END REPORT		

Figure 5–8. Using the SHFT Control Position for Horizontal Shifting

After you press the XMIT key, the screen in Figure 5–9 is displayed. This screen displays the data lines with the first 10 columns moved off the left side and the next 10 columns shifted onto the screen from the right-hand side. Note that the asterisk type column heading lines are also shifted, but that lines 1 and 2, which are period type lines, are not shifted.

LINEÞ 1	FMT> RL>	SHFT	HLD CHR»	HLD LN PSWD	
.DATE 83/0	6/10 16:28:29	TYPE=D RID=	001 82/12	23 JDOE	< 20 LINES>
. <<< CORP	ORATE ORDER STA	TUS			
* PRODUCT .	ODR.CUST. UNIT	.EXTENDED.R	EQ'D .SALE		• • • • • • • • • •
* TYPE .	QTY.CODE. RETAI	L . RETAIL .D	ELIVR.REP	. CUSTOMER	. ADDRESS
CDFFNDOVO	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			NEDIN OIL CO	
CDEENBOX7		7	50312 DJR	AMERIAN OIL CO.	7300 CENTRAL
BLACKBOX		7	50312 DJR	AMERIAN OIL CO.	7300 CENTRAL
GREENBOX4	2 ARCO	7	50412 LSJ	ARGENTINE CORP.	2300 5TH AVE
BLACKBOX5	1 ARCO	7	50412 LSJ	ARGENTINE CORP.	2300 5TH AVE
BLACKBOX4	1 ARCO	7!	50412 LSJ	ARGENTINE CORP.	2300 5TH AVE
GREENBOX5	1 DICO	7	50312 LSJ	DIGITAL CORP	1782 NORTH S
GREENBOX8	1 FEDS	7	50312 PLR	FED SYSTEMS CORP	1566 COLUMBI
GREENBOXI	1 FEDS	7	50312 PLR	FED SYSTEMS CORP	1566 COLUMBI
	I FEDS	71	50312 PLR	FED SYSTEMS CORP	
BLACKBOXA	1 INTR	71	50312 FLR	INTERNATIONAL CO	1000 CULUMBI
BLACKBOX9	1 USSC	7	50312 SSF	UNION STEEL/SULFR	5430 ALCAN A
GREENBOX9	1 USSC	7!	50312 SSF	UNION STEEL/SULFR	5430 ALCAN A
		END REPORT .			

Figure 5-9. Display of Shifted Report

## 5.2.5. Holding Characters (HLD CHR)

The HLD CHR control position holds columns of characters on the left side of the screen. Enter the number of characters you want held in the HLD CHR control position and press the XMIT key. The number of characters you specify are held on the left side of the screen. If you wish, you can now shift the remaining columns, i.e., those columns that do not contain these held characters.

In Figure 5–10, 10 is in the HLD CHR position.

DATE 83/06/10 16:28:29 TYPE=D RID=001 82/12/23 JDOE < 20 LINES> . <<< CORPORATE ORDER STATUS >>> *ST.ORDER PRODUCT .ODR.CUST. UNIT .EXTENDED.REQ'D .SALE. *CD.NUMBER. TYPE .QTY.CODE. RETAIL . RETAIL .DELIVR.REP .CUSTOMER *T	LINED I FMTD RLD SHE	The HLD CHRE 10/2/HLD LNE PSNDE E
<pre>. &lt;&lt;&lt; CORPORATE ORDER STATUS &gt;&gt;&gt; *ST.ORDER . PRODUCT .ODR.CUST. UNIT .EXTENDED.REQ'D .SALE. *CD.NUMBER. TYPE .QTY.CODE. RETAIL .RETAIL .DELIVR.REP .CUSTOMER *TTREETED</pre>		D RID=001 82/12/23 JDOE < 20 LINES>
*ST.ORDER PRODUCT ODR.CUST. UNIT EXTENDED.REQ'D SALE. *CD.NUMBER. TYPE QTY.CODE. RETAIL RETAIL DELIVE.REP CUSTOMER *THE ADDITIONAL CODE RETAIL RETAIL DELIVE.REP CUSTOMER *THE ADDITIONAL CODE RETAIL RETAIL DELIVE.REP CUSTOMER *THE ADDITION STEEL/SULFR 54 OR 99951S GREENBOX9 2 AMCO 750312 DJR AMERIAN OIL CO. 73 OR 99951S BLACKBOX9 1 AMCO 750312 DJR AMERIAN OIL CO. 73 OR 96652S GREENBOX4 2 ARCO 750412 LSJ ARGENTINE CORP. 23 OR 96652S BLACKBOX5 1 ARCO 750412 LSJ ARGENTINE CORP. 23 OR 96652S GREENBOX4 1 ARCO 750412 LSJ ARGENTINE CORP. 23 OR 96652S GREENBOX5 1 DICO 750312 DJR INTE CORP. 23 OR 99753S GREENBOX5 1 DICO 750312 LSJ DIGITAL CORP 17 OR 94525S GREENBOX8 1 FEDS 750312 PLR FED SYSTEMS CORP 15 OR 99751S GREENBOX1 1 FEDS 750312 PLR FED SYSTEMS CORP 15 OR 99842S BLACKBOX8 1 FEDS 750312 PLR FED SYSTEMS CORP 15 OR 99752S BLACKBOX4 1 INTR 750312 LTR INTERNATIONAL CO 33 OR 98762S BLACKBOX9 1 USSC 750312 SF UNION STEEL/SULFR 54 OR 96755S GREENBOX9 1 USSC 750312 SF UNION STEEL/SULFR 54 END REPORT	. <<< CORPORATE ORDER STATUS >	
*CD.NUMBER.TYPE.QTY.CODE.RETAILRETAILDELIVR.REPCUSTOMER*T*T*T*T*T*T*T*TOR 99951SGREENBOX92AMCO750312DJRAMERIAN OIL CO.73OR 99951SGREENBOX71AMCO750312DJRAMERIAN OIL CO.73OR 99951SBLACKBOX91AMCO750312DJRAMERIAN OIL CO.73OR 96652SGREENBOX42ARCO750412LSJARGENTINE CORP.23OR 96652SBLACKBOX51ARCO750412LSJARGENTINE CORP.23OR 96652SBLACKBOX41ARCO750412LSJARGENTINE CORP.23OR 96652SGREENBOX51DICO750312LSJDIGITAL CORP.23OR 99753SGREENBOX51DICO750312PLRFED SYSTEMS CORP.17OR 94525SGREENBOX11FEDS750312PLRFED SYSTEMS CORP.15OR 99842SBLACKBOX81FEDS750312PLRFED SYSTEMS CORP.15OR 99752SBLACKBOX41INTR750312LTRINTERNATIONAL CO.33OR 98782SBLACKBOX91USSC750312SSFUNION STEEL/SULFR.54OR 96755SGREENBOX91USSC750312SSFUNION STEEL/SULFR.54OR 96755SGREENBOX91USSC750312SSFUNION STEEL/SULFR.	<b>*ST.ORDER</b> . PRODUCT .ODR.CUST.	UNIT .EXTENDED.REQ'D .SALE.
OR99951SGREENBOX92AMCO750312DJRAMERIANOILCO.73OR99951SGREENBOX71AMCO750312DJRAMERIANOILCO.73OR99951SBLACKBOX91AMCO750312DJRAMERIANOILCO.73OR96652SGREENBOX42ARCO750412LSJARGENTINECORP.23OR96652SBLACKBOX51ARCO750412LSJARGENTINECORP.23OR96652SBLACKBOX41ARCO750412LSJARGENTINECORP.23OR96652SBLACKBOX41ARCO750412LSJARGENTINECORP.23OR99753SGREENBOX51DICO750312PLRFEDSYSTEMSCORP.17OR94525SGREENBOX81FEDS750312PLRFEDSYSTEMSCORP.15OR99842SBLACKBOX81FEDS750312PLRFEDSYSTEMSCORP.15OR99842SBLACKBOX41INTR750312LTRINTERNATIONALCO33OR98782SBLACKBOX41INTR750312SSFUNIONSTEEL/SULFR54OR96755SGREENBOX91USSC750312SSFUNIONSTEEL/SULFR54OR96755SGREENBOX91USSC750312	*CD.NUMBER. TYPE .QTY.CODE. F	RETAIL . RETAIL . DELIVR. REP . CUSTOMER .
OR9395115GREENBOX71ANCO750312DJRAMERIAN OIL CO.73OR999515BLACKBOX91AMCO750312DJRAMERIAN OIL CO.73OR966525GREENBOX42ARCO750412LSJARGENTINE CORP.23OR966525BLACKBOX51ARCO750412LSJARGENTINE CORP.23OR966525BLACKBOX41ARCO750412LSJARGENTINE CORP.23OR966525BLACKBOX41ARCO750412LSJARGENTINE CORP.23OR996525GREENBOX51DICO750312LSJDIGITAL CORP.23OR945255GREENBOX81FEDS750312PLRFED SYSTEMS CORP15OR998425BLACKBOX81FEDS750312PLRFED SYSTEMS CORP15OR998425BLACKBOX41INTR750312PLRFED SYSTEMS CORP15OR997525BLACKBOX41INTR750312PLRFED SYSTEMS CORP15OR 987825BLACKBOX91USSC750312SFUNION STEEL/SULFR54OR967555GREENBOX91USSC750312SFUNION STEEL/SULFR54ENDREPORTFEDFEDSSFUNION STEEL/SULFR54		
OR999515BLACKBOX91AMCO750312DJRAMERIANOILCO.73OR96652SGREENBOX42ARCO750412LSJARGENTINECORP.23OR96652SBLACKBOX51ARCO750412LSJARGENTINECORP.23OR96652SBLACKBOX41ARCO750412LSJARGENTINECORP.23OR99652SBLACKBOX41ARCO750412LSJARGENTINECORP.23OR99753SGREENBOX51DICO750312LSJDIGITALCORP.17OR94525SGREENBOX81FEDS750312PLRFEDSYSTEMSCORP15OR99842SBLACKBOX81FEDS750312PLRFEDSYSTEMSCORP15OR99842SBLACKBOX41INTR750312PLRFEDSYSTEMSCORP15OR99752SBLACKBOX41INTR750312LTRINTERNATIONALCO33OR98782SBLACKBOX91USSC750312SSFUNIONSTEEL/SULFR54OR96755SGREENBOX91USSC750312SSFUNIONSTEEL/SULFR54	OR 999515 GREENBOX5 2 ANCO	750312 DOR AMERIAN OIL CO. 73
OR96652SGREENBOX42ARCO750412LSJARGENTINECORP.23OR96652SBLACKBOX51ARCO750412LSJARGENTINECORP.23OR96652SBLACKBOX41ARCO750412LSJARGENTINECORP.23OR99753SGREENBOX51DICO750412LSJARGENTINECORP.23OR99753SGREENBOX81FEDS750312LSJDIGITALCORP.23OR94525SGREENBOX81FEDS750312PLRFEDSYSTEMSCORP15OR99842SBLACKBOX81FEDS750312PLRFEDSYSTEMSCORP15OR99842SBLACKBOX01FEDS750312PLRFEDSYSTEMSCORP15OR99752SBLACKBOX41INTR750312PLRFEDSYSTEMSCORP15OR98782SBLACKBOX41INTR750312SFUNIONSTEEL/SULFR54OR96755SGREENBOX91USSC750312SFUNIONSTEEL/SULFR54OR96755SGREENBOX91USSC750312SFUNIONSTEEL/SULFR54	OR 999515 BLACKBOX9 1 AMCO	750312 DJR AMERIAN OIL CO. 73
OR 96652S BLACKBOX5       1 ARCO       750412 LSJ       ARGENTINE CORP.       23         OR 96652S BLACKBOX4       1 ARCO       750412 LSJ       ARGENTINE CORP.       23         OR 99753S GREENBOX5       1 DICO       750412 LSJ       ARGENTINE CORP.       23         OR 99753S GREENBOX5       1 DICO       750312 LSJ       DIGITAL CORP.       17         OR 94525S GREENBOX8       1 FEDS       750312 PLR       FED SYSTEMS CORP       15         OR 96751S GREENBOX1       1 FEDS       750312 PLR       FED SYSTEMS CORP       15         OR 99842S BLACKBOX8       1 FEDS       750312 PLR       FED SYSTEMS CORP       15         OR 99842S BLACKBOX0       1 FEDS       750312 PLR       FED SYSTEMS CORP       15         OR 99752S BLACKBOX4       1 INTR       750312 LTR       INTERNATIONAL CO       33         OR 98782S BLACKBOX9       1 USSC       750312 SSF       UNION STEEL/SULFR 54         OR 96755S GREENBOX9       1 USSC       750312 SSF       UNION STEEL/SULFR 54	OR 96652S GREENBOX4 2 ARCO	750412 LSJ ARGENTINE CORP. 23
OR966525BLACKBOX41ARCO750412LSJARGENTINECORP.23OR997535GREENBOX51DICO750312LSJDIGITALCORP17OR945255GREENBOX81FEDS750312PLRFEDSYSTEMSCORP15OR967515GREENBOX11FEDS750312PLRFEDSYSTEMSCORP15OR998425BLACKBOX81FEDS750312PLRFEDSYSTEMSCORP15OR998425BLACKBOX01FEDS750312PLRFEDSYSTEMSCORP15OR997525BLACKBOX41INTR750312LTRINTERNATIONALCO33OR987825BLACKBOX91USSC750312SSFUNIONSTEEL/SULFR54OR967555GREENBOX91USSC750312SSFUNIONSTEEL/SULFR54ENDREPORTFEORTFEORTFEORTFEORT	OR 96652S BLACKBOX5 1 ARCO	750412 LSJ ARGENTINE CORP. 23
OR997535GREENBOXS1DICO750312LSJDIGITAL CORP17OR945255GREENBOX81FEDS750312PLRFEDSYSTEMSCORP15OR997515GREENBOX81FEDS750312PLRFEDSYSTEMSCORP15OR998425BLACKBOX81FEDS750312PLRFEDSYSTEMSCORP15OR998425BLACKBOX01FEDS750312PLRFEDSYSTEMSCORP15OR997525BLACKBOX41INTR750312LTRINTERNATIONALCO33OR987825BLACKBOX91USSC750312SSFUNIONSTEEL/SULFR54OR967555GREENBOX91USSC750312SSFUNIONSTEEL/SULFR54ENDREPORTFORTFEDSSFUNIONSTEEL/SULFR54	OR 96652S BLACKBOX4 I ARCO	750412 LSJ ARGENTINE CORP. 23
OR947515GREENBOX11FEDS750312PLRFED SYSTEMS CORP15OR99842SBLACKBOX81FEDS750312PLRFED SYSTEMS CORP15OR99842SBLACKBOX01FEDS750312PLRFED SYSTEMS CORP15OR99752SBLACKBOX41INTR750312PLRFED SYSTEMS CORP15OR99752SBLACKBOX41INTR750312LTRINTERNATIONAL CO33OR98782SBLACKBOX91USSC750312SSFUNIONSTEEL/SULFR54OR96755SGREENBOX91USSC750312SSFUNIONSTEEL/SULFR54ENDREPORTFORT	OR 997535 GREENDUAS I DICU	750312 LSJ DIGITAL CORP 17 T
OR         99842S         BLACKBOX8         1         FEDS         750312         PLR         FED SYSTEMS         CORP         15           OR         99842S         BLACKBOX0         1         FEDS         750312         PLR         FED SYSTEMS         CORP         15           OR         99752S         BLACKBOX4         1         INTR         750312         LTR         INTERNATIONAL         CO         33           OR         98782S         BLACKBOX9         1         USSC         750312         SSF         UNION         STEEL/SULFR         54           OR         96755S         GREENBOX9         1         USSC         750312         SSF         UNION         STEEL/SULFR         54            END         REPORT          FED         SYSTEMS         COR         55         STEMA         54	OR 96751S GREENBOX1 1 FEDS	750312 PLR FED SYSTEMS CORP 15
OR         99842S         BLACKBOX0         1         FEDS         750312         PLR         FED         SYSTEMS         CORP         15           OR         99752S         BLACKBOX4         1         INTR         750312         LTR         INTERNATIONAL         CO         33           OR         98782S         BLACKBOX9         1         USSC         750312         SSF         UNION         STEEL/SULFR         54           OR         96755S         GREENBOX9         1         USSC         750312         SSF         UNION         STEEL/SULFR         54            END         REPORT          VINION         STEEL/SULFR         54	OR 99842S BLACKBOX8 1 FEDS	750312 PLR FED SYSTEMS CORP 15
OR 99752S BLACKBOX4 1 INTR 750312 LTR INTERNATIONAL CO 33 OR 98782S BLACKBOX9 1 USSC 750312 SSF UNION STEEL/SULFR 54 OR 96755S GREENBOX9 1 USSC 750312 SSF UNION STEEL/SULFR 54 END REPORT	OR 99842S BLACKBOX0 1 FEDS	750312 PLR FED SYSTEMS CORP 15
OR 98782S BLACKBOX9 1 USSC 750312 SSF UNION STEEL/SULFR 54 OR 96755S GREENBOX9 1 USSC 750312 SSF UNION STEEL/SULFR 54 END REPORT	OR 99752S BLACKBOX4 1 INTR	750312 LTR INTERNATIONAL CO 33
OK 96/555 GREENBOAS I USSC /50312 SSF UNION STEEL/SULFR 54	OR. 98782S BLACKBOX9 1 USSC	750312 SSF UNION STEEL/SULFR 54
	UK 90/000 UKLLNBUX9 1 UDDC	JOUGIA GOT UNION STELL/BULIK 54

Figure 5–10. Using HLD CHR Position to Specify the Number of Characters to Hold

After you press the XMIT key, the first 10 characters in each line are held at the left side of the screen (Figure 5–11). Note that the HLD CHR control position indicates 10. This means that you are holding 10 characters on the left side of the screen. The cursor appears in the SHFT control position in preparation for the next operation – shifting.

		······································	
	auto 51		5 7/15
LINED I FMTD RL	b SHFT D	HLD CHRD IU HLD LND	PSWDD D
.DATE 83/06/10 16:2	8:29 TYPE=D RID=	001 82/12/23 JDOE	< 20 LINES>
. <<< CORPORATE ORDE	R STATUS >>>		
<b>*ST.ORDER</b> . PRODUCT .	ODR.CUST. UNIT .	EXTENDED.REQ'D .SALE	
*CD.NUMBER. TYPE .	QTY.CODE. RETAIL .	RETAIL .DELIVR.REP	. CUSTOMER .
***.*****.*********			.============.==.
OR 99951S GREENBOX9	2 AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 99951S GREENBOX7	1 AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 99951S BLACKBOX9	1 AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 96652S GREENBOX4	2 ARCO	750412 LSJ	ARGENTINE CORP. 23
OR 96652S BLACKBOX5	1 ARCO	750412 LSJ	ARGENTINE CORP. 23
OR 96652S BLACKBOX4	1 ARCO	750412 LSJ	ARGENTINE CORP. 23
OR 99753S GREENBOX5	1 DICO	750312 LSJ	DIGITAL CORP 17
OR 945255 GREENBOX8	1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 967515 GREENBOX1	1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 998425 BLACKBOX8	1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 99842S BLACKBOX0	1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 997525 BLACKBOX4	1 INTR	750312 LTR	INTERNATIONAL CO 33
OR 98782S BLACKBOX9	1 USSC	750312 SSF	UNION STEEL/SULER 54
OR 967555 GREENBOX9	1 USSC	750312 SSF	UNION STEEL/SULFR 54
	END REPORT .		

Figure 5–11. Display of Held Characters Prior to Shifting

Enter the number of characters you want to shift in the SHFT control position. In Figure 5–12, 49 characters are specified for shifting.

		:
ם ער מאמר בייט בייט אוויין דייט דייט דייט דייט דייט דייט דייט ד	1 1 9 4 5 2 1 1 LU CRKP 10 1 LU LAP	
.DAIL 03/00/10 10:20:23 1171	L=D RID=001 82/12/23 JDUE	< ZU LINES>
* ST. UKDEK . PRODUCT . UDK. CUST.	DEMIT LEATENDED.REQ D .SALE.	augmower .
*CD.NUMBER. TIPE .QTI.CODE.	RETAIL . RETAIL . DELIVE. REP .	CUSTOMER .
	=======================================	
OR 999515 GREENBUAS Z AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 999515 GREENBOX/ I AMCO	750312 DJR	AMERIAN OIL CO. 73
UR 999515 BLACKBOX9 I AMCO	750312 DJR	AMERIAN OIL CO. 73
OR 96652S GREENBOX4 2 ARCO	750412 LSJ	ARGENTINE CORP. 23
OR 96652S BLACKBOX5 1 ARCO	750412 LSJ	ARGENTINE CORP. 23
OR 96652S BLACKBOX4 1 ARCO	750412 LSJ	ARGENTINE CORP. 23
OR 99753S GREENBOX5 1 DICO	750312 LSJ	DIGITAL CORP 17
OR 945255 GREENBOX8 1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 96751S GREENBOX1 1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 99842S BLACKBOX8 1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 99842S BLACKBOX0 1 FEDS	750312 PLR	FED SYSTEMS CORP 15
OR 99752S BLACKBOX4 1 INTR	750312 LTR	INTERNATIONAL CO 33
OR 98782S BLACKBOX9 1 USSC	750312 SSF	UNION STEEL/SULFR 54
OR 967555 GREENBOX9 1 USSC	750312 SSF	UNION STEEL/SULFR 54
END	REPORT	

Figure 5-12. Specifying the Number of Shift Characters

Press the XMIT key.

Figure 5–13 shows the report after shifting is performed. Starting with column 11, the report is shifted 49 columns to the left. The CUSTOMER field and all data to the right move over to the previously held characters.

LINE⊳ 1 FMT⊳ RL⊳ .DATE 83/06/10 16:28:29 T	SHFT V HLD ( YPE=D RID=001 8	CHR⊳ 10 HLD LN⊳ 32/12/23 JDOE	PSWD⊳ < 20 Lines;	
. <<< CORPORATE ORDER STATU: *ST ORDER	S >>>			
*CD.NUMBER. CUSTOMER	ADDRESS	CITY	STATE. ZIP .REMARK.	1
*==.====.==.===========================			.=====.====.===.	ana ana
OR 99951S AMERIAN OIL CO.	7300 CENTRAL AV	NEW ORLEANS	LA 64301	
OR 999515 AMERIAN OIL CO.	7300 CENTRAL AV	NEW ORLEANS	LA 64301	
OP OCCE28 ADDENTINE CODD	2300 STH AVE	NEW VODK	LA 64301 NV 22021	
OR 966525 ARGENTINE CORP.	2300 5TH AVE	NEW YORK	NY 33021	ĺ
OR 96652S ARGENTINE CORP.	2300 5TH AVE	NEW YORK	NY 33021	
OR 99753S DIGITAL CORP	1782 NORTH ST	NEW YORK	NY 54002	
OR 945255 FED SYSTEMS CORP	1566 COLUMBIA	WASHINGTON	DC 20001	
OR 96751S FED SYSTEMS CORP	1566 COLUMBIA	WASHINGTON	DC 20001	
OR 998425 FED SYSTEMS CORP	1566 COLUMBIA	WASHINGTON	DC 20001	Allin
OR 998425 FED SYSTEMS CORP	1566 COLUMBIA	WASHINGTON	DC 20001	
OR 39/323 INTERNATIONAL CO	5301 SUMMIT AV		ILL 00320	
OR 96755S UNION STEEL/SULFR	5430 ALCAN AVE	SEATTLE	WASH 73001	
	ND REPORT			

Figure 5-13. Display of Shifted Report with Held Characters

## 5.2.6. Holding Lines (HLD LN)

The HLD LN control position lets you hold specified lines in a report at the top of the screen while positioning the report. This is especially useful for holding field headers at the top of the screen when you roll through an unfamiliar report.

To hold five lines, display a report and enter 5 in the HLD LN control position, as shown in Figure 5–14.

LINE> 1 FMT> RL> SHFT> HLD CHR> HLD LN> 5 PSWD> > .DATE 83/06/10 16:30:46 TYPE=B RID=001 82/12/23 JDOE < 30 LINES>
. <<< CORPORATE PRODUCTION STATUS >>> *ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. *CD. DATE IN TYPE IN TYPE COST NUMBER CODE PLAN ACTUAL DATE OPDER CODE
<b>*XX STATUS CODE:</b> OR = ORDERED, SC = SCHEDULED, IP = IN PROCESS, SH = SHIPPED
* XXXXXX STATUS DATE (YYMMDD)
* XX INITIAL OF PERSON REPORTING STATUS
* YYYYY INIT SPILI NIWRFR
* XXXXXX PRODUCTION COST
* XXXXX CUSTOMER ORDER NUMBER
* XXXX CUSTOMER CODE
* PRODUCTION PLAN DATE YYMMDD XXXXXX
* PRODUCTION DATE YYMHDD ACTUAL XXXXXX
* SHIP DATE YYNNDD XXXXXX
SH 750109 LS BLACKBOX1 455660 74536 NASA 750103 750107 750109 54572
*SH 750109 LS BLACKBOX1 455661 74536 NASA 750103 750107 750109 S4572
.THE ABOVE LINE IS AN EXAMPLE ITEM WHICH DENOTES:
SH THAT THE STATUS OF THE ITEM IS SHIPPED
THE STATUS WAS REPORTED ON JAN 9, 1975 BY L. S.

Figure 5–14. How to Specify the Number of Lines to Hold

Press the XMIT key to display the screen in Figure 5-15. Note that the number 6 appears in the LINE control position – the sixth line is the first nonheld data line on the screen:

HLD LNÞ 5 LINE 60 **FMT**b RLÞ SHFTD HLD CHR» **PSWD** 16:30:46 TYPE=B RID=001 82/12/23 30 LINES> . DATE 83/06/10 JDOF. < CORPORATE PRODUCTION STATUS >>><<< \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*CD. DATE .IN. TYPE ----. \*== --------------............ **\*XX STATUS CODE:** OR = ORDERED, SC = SCHEDULED, IP = IN PROCESS, SH = SHIPPED XXXXXX STATUS DATE (YYMMDD) \* \* XX INITIAL OF PERSON REPORTING STATUS XXXXXXXX PRODUCT TYPE NUMBER XXXXXX UNIT SERIAL NUMBER \* \* \* XXXXXX PRODUCTION COST XXXXX CUSTOMER ORDER NUMBER \* \* \* \* XXXX CUSTOMER CODE PRODUCTION PLAN DATE YYMMDD XXXXXX PRODUCTION DATE YYMMDD ACTUAL XXXXXX \* SHIP DATE YYMMDD XXXXXX ORDER TO SHIP NUMBER XXXXX \* SPECIAL SEARCH CODES XXX \* SH 750109 LS BLACKBOX1 455660 \*SH 750109 LS BLACKBOX1 455661 74536 NASA 750103 750107 750109 S4572 74536 NASA 750103 750107 750109 S4572 THE ABOVE LINE IS AN EXAMPLE ITEM WHICH DENOTES: SH THAT THE STATUS OF THE ITEM IS SHIPPED THE STATUS WAS REPORTED ON JAN 9, 1975 BY L. S.



## 5.2.7. Rolling with Held Lines

When you enter a number in the HLD LN control position and press the XMIT key, you can roll through a report, holding the specified number of lines from the beginning of the report at the top of the screen.

Select one of the following to roll with held lines:

- press the TAB key to the RL control position and press the XMIT key;
- enter a plus or minus sign in the RL control position and then press the XMIT key; or
- tab to the LINE control position, enter the line number you want, and press the XMIT key.

In Figure 5–16, 18 is entered in the LINE position:

LINED 180 FMT⊳ RLÞ SHFTD HLD CHR» HLD LNo 5 PSWD. 83/06/29 13:13:28 TYPE=B RID=001 83/06/29 30 LINES> . DATE JDOE CORPORATE PRODUCTION STATUS . <<< CORPORATE PRODUCTION STATUS >>> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*== :: . . . . . . . . . . . . . . . . .=====.=.== \_\_\_\_\_ \*XX STATUS CODE: OR = ORDERED, SC = SCHEDULED, IP = IN PROCESS, SH = SHIPPED XXXXXX STATUS DATE (YYMMDD) \* \* XX INITIAL OF PERSON REPORTING STATUS XXXXXXXX PRODUCT TYPE NUMBER XXXXXX UNIT SERIAL NUMBER \* \* XXXXXX PRODUCTION COST XXXXX CUSTOMER ORDER NUMBER XXXX CUSTOMER CODE PRODUCTION PLAN DATE YYMMDD XXXXX \* \* PRODUCTION DATE YYMMDD ACTUAL XXXXXX SHIP DATE YYMMDD XXXXXX ORDER TO SHIP NUMBER XXXXX \* \* SPECIAL SEARCH CODES XXX 74536 NASA 750103 750107 750109 S4572 SH 750109 LS BLACKBOX1 455660 74536 NASA 750103 750107 750109 S4572 \*SH 750109 LS BLACKBOX1 455661 THE ABOVE LINE IS AN EXAMPLE ITEM WHICH DENOTES: .SH THAT THE STATUS OF THE ITEM IS SHIPPED THE STATUS WAS REPORTED ON JAN 9, 1975 BY L. S.

Figure 5–16. Display with Held Lines before Rolling

When you press the XMIT key, the data in the report rolls up until line 18 is reached, as shown in Figure 5–17. Note that the five header lines and the control line remain on the screen. The LINE control position in the control line shows that the line number of the first nonheld line displayed is 18.

						_					
i	ND. 100	1 own.	D7 .	01150		011D.			DOUD.		
ᇔ나비	NED 10K	i rnio	NLP	- SHFT	o HLD	CHRP	nLD	LNÞ D	L 2MDb		P 🚪
.D	ATE 83	/06/10	16:30:4	46 TYPE=B	RID=001	82/12	./23 J	DOE	<	30 LIN	IES>
<b>.</b> .	<<< CO	RPORATE	E PRODUC'	TION STATU	S >>>						
📕 *S'	T. STATU	S.BY. F	RODUCT	. SERIAL . PR	ODUC.ORDER	.CUST.	PRODUC	. PRODUC	. SHIP	.SHIP .S	SPC.
\overline *C	D. DATE	.IN.	TYPE	.NUMBER. C	ost . Numbr	. CODE .	PLAN	. ACTUAL	. DATE	.ORDER.C	COD.
🗮 🗶 = 1	s.ss===	=.==.==		.=====.==	====,=====	.===.	=====	. = = = = = = = = =	. = = = = = = =	.====.=	·==. 📲
<b>≝</b> ★								SPECIAL	SEARCH	CODES Y	XX 📱
S	H 75010	9 LS BL	ACKBOX1	455660	74536	NASA	750103	750107	750109	S4572	
*S	H 75010	9 LS BL	ACKBOX1	455661	74536	NASA	750103	750107	750109	S4572	
.TI	HE ABOV	E LINE	IS AN EX	XAMPLE ITE	M WHICH DE	NOTES:					
. S	н тнат	THE ST	ATUS OF	THE ITEM	IS SHIPPED						
	THE	STATUS	WAS REPO	ORTED ON J	AN 9, 1975	BY L.	S.				
	THE	ITEM IS	S A BLACI	K BOX TYPE	1, SERIAL	NUMBE	R 4556	61			
<b>.</b>	ITS	RELATEI	ORDER I	NUMBER IS	74536						13
	THE	ORDER 1	S FOR T	HE CUSTOME	R CODED NA	SA.					
	IT W	AS PLAN	INED TO	BE PRODUCE	D ON JAN 3	, 1975	5				
	ÎŤ W	AS ACTI	JALLY PR	ODUCED ON	JAN 7. 197	Ś					-
	ĪT Ŵ	AS SHIE	PED ON	JAN 9, 197	5 ON SHIP	ORDER	NUMBER	S4572			
			• • •	END RE	PORT						

Figure 5-17. Display with Held Lines after Rolling

f

# 6. Update Functions

## 6.1. GENERAL

You can use the MAPPER 80 update functions to update both the reports stored in the MAPPER 80 data base and the data in those reports. The update functions, as well as all the functions described in this manual, are listed in summary form in Table A-1.

MAPPER 80 software allows two or more users to access a report at the same time, but you can update a report only when no one else is accessing it. If you attempt to update a report when someone else is accessing it, MAPPER 80 software displays a lockout message. When you receive a lockout message, wait until the other user finishes updating the report before you retry the operation. Inform your MAPPER 80 coordinator if the lockout message occurs too frequently.

This section discusses: the updating of lines and parts of lines within a report (6.2); and the updating of an entire report (6.3).

Adda lines

Line update functions are:

	ADD LINE (+)	Adds lines
	DELETE LINE ()	Deletes lines
	DUPLICATE LINE (X)	Duplicates lines
	SOE UPDATE (>)	Updates lines
	ROLL BACK (RB)	Returns revised lines to original condition
	REPORT PASSWORD (PWSD)	Activates the report password
Rep	port update functions are:	
	ADD REPORT (AR)	Adds a new report

- DELETE REPORT (DR) Eliminates the report
- DUPLICATE REPORT (XR)
   Copies the report
- ADD ON (ADON)
   Adds one report to another report

- DELETE RESULTS (DEL) Deletes results
- UPDATE RESULTS (UPD) Updates results
- REPLACE (REP)
   Replaces a report

You use the DELETE RESULTS and UPDATE RESULTS functions after the SEARCH UPDATE (7.6) and MATCH UPDATE (7.9) functions to make permanent modifications to the original report based on the generated results.

## **6.2. LINE UPDATE FUNCTIONS**

## 6.2.1. SOE UPDATE Function

The SOE UPDATE function is a 1-step operation for changing data. It's the most frequently used function in report updating.

To make changes, enter the SOE character ( $\triangleright$ ) in front of the items you want to change and enter the changes. Changes can range from one character to the entire screen.

In the following example, the serial number in the first line of data in report 2B changes from 436767 to 436766:

LINE▷ 1 FMT▷ RL▷ SHFT▷ HLD CHR▷ HLD LN▷ PSWD▷ ▷ .DATE 83/06/20 15:23:42 TYPE=B RID=002 82/08/11 JDOE 〈 48 LINES〉 . <<< CORPORATE PRODUCTION STATUS >>> *ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. *CD. DATE .IN. TYPE .NUMBER.COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. *IP 741224 LS BLACKBOX1 & 436767 2 84389 AMCO 741223 741224 IP 741225 LS BLACKBOX1 & 436767 8 84390 AMCO 741223 741225 IP 741225 LS BLACKBOX2 637071 84353 INTR 741218 741219 OR 750110 LS BLACKBOX2 675281 97441 FEDS 750131 IP 741222 LS BLACKBOX5 675281 97441 FEDS 750131 IP 741222 LS BLACKBOX5 675281 97441 FEDS 741201 741202 741203 S8738 SH 741203 LS BLACKBOX5 675282 84040 AMCO 741222 741222 SH 741203 LS BLACKBOX6 368061 54438 FEDS 741201 741202 741203 S8738 SH 741202 LS BLACKBOX6 77324 54232 DICO 741207 741208 741202 S6937 SH 741203 LS BLACKBOX6 785367 52833 ARCO 741201 741202 741203 S8738 SH 741203 LS BLACKBOX6 785367 52833 ARCO 741201 741202 741203 S8934 IP 741216 LS BLACKBOX7 665481 97541 FEDS 750122 IP 741227 LS BLACKBOX7 665481 97541 FEDS 750122 IP 741227 LS BLACKBOX7 73597 84351 AMCO 741227 741227 SH 741207 LS BLACKBOX7 73597 84351 AMCO 741207 741208 741202 S8531 IP 741227 LS BLACKBOX7 73597 84351 AMCO 741227 741227 SH 741203 LS BLACKBOX7 933581 84381 FEDS 741215 741515 OR 741230 LS BLACKBOX8 92788 FEDS																				
LINE▶ 1 FMT▶ RL▷ SHFT▶ HLD CHR▶ HLD LN▶ PSWD▶ DATE 83/06/20 15:23:42 TYPE=B RID=002 82/08/11 JDOE < 48 LINES> .<<< CORPORATE PRODUCTION STATUS >>> *ST.STATUS. BY. PRODUCT .SERIAL PRODUC ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. *CD. DATE .IN. TYPE .NUMBER.COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. *TIP 741224 LS BLACKBOX1▶43676702 84389 AMCO 741223 741224 IP 741225 LS BLACKBOX1 ↓436767 18 84390 AMCO 741223 741224 IP 741225 LS BLACKBOX1 ↓436767 18 84353 INTR 741218 741219 OR 750110 LS BLACKBOX4 94754 ARCO SC 750110 LS BLACKBOX5 675281 97441 FEDS 750131 IP 741222 LS BLACKBOX5 675281 97441 FEDS 750131 IP 741202 LS BLACKBOX5 675282 84040 AMCO 741222 741202 741203 S8738 SH 741203 LS BLACKBOX6 368061 54438 FEDS 741201 741202 741203 S8738 SH 741202 LS BLACKBOX6 785367 52833 ARCO 741201 741202 741203 S8738 SH 741203 LS BLACKBOX6 785367 52833 ARCO 741201 741202 741203 S8934 IP 741216 LS BLACKBOX7 65581 89381 INTR 741215 741216 OR 741210 LS BLACKBOX6 77324 54232 DICO 741207 741208 S8538 SH 741203 LS BLACKBOX6 773547 54233 ARCO 741201 741202 741203 S8934 IP 741216 LS BLACKBOX7 73597 84351 ANCO 741227 741227 SH 741207 LS BLACKBOX7 665481 97541 FEDS 750122 IP 741227 LS BLACKBOX7 665481 97541 FEDS 750122 IP 741227 LS BLACKBOX7 73597 84351 ANCO 741227 741220 S8531 IP 741220 LS BLACKBOX7 665481 97541 FEDS 750122 IP 741227 LS BLACKBOX7 733597 84351 ANCO 741227 741220 S8531 IP 741220 LS BLACKBOX7 933581 84381 FEDS 741215 741515 OR 741230 LS BLACKBOX7 933581 84381 FEDS 741215 741515 OR 741230 LS BLACKBOX7 933581 84381 FEDS 741215 741515 OR 741230 LS BLACKBOX8 92788 FEDS	1																			
LINE▷ 1 FNT▷ RL▷ SHFT▷ HLD CHR▷ HLD LN▷ PSWD▷ ▷ .DATE 83/06/20 15:23:42 TYPE=B RID=002 82/08/11 JDOE < 48 LINES> . <<< CORPORATE PRODUCTION STATUS >>> *ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. *CD. DATE .IN. TYPE .NUMBER.COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. *T=T=T=T=T=T=T=T=T=T=T=T=T=T=T=T=T=T=T=																				
LINE 1 FIT REP SHIT HED CHRP HED CHRP HED CHRP FOUD FOUD FOUD (C) 15:23:42 TYPE=B RID=002 82/08/11 JDOE (C) 48 LINES) - (<< CORPORATE PRODUCTION STATUS >>> *ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. *CD. DATE .IN. TYPE .NUMBER.COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. *TH FILLS BLACKBOX1>436767[2] 84389 AMCO 741223 741224 IP 741224 LS BLACKBOX1>436767[2] 84389 AMCO 741223 741225 IP 741225 LS BLACKBOX1 436767[2] 84389 AMCO 741223 741225 IP 741219 LS BLACKBOX2 637071 84353 INTR 741218 741219 OR 750110 LS BLACKBOX5 675281 97441 FEDS 750131 IP 741222 LS BLACKBOX5 675281 97441 FEDS 750131 IP 741203 LS BLACKBOX5 737582 84040 AMCO 741222 741203 S8738 SH 741203 LS BLACKBOX6 368061 54438 FEDS 741201 741202 741203 S8738 SH 741203 LS BLACKBOX6 368061 54438 FEDS 741201 741202 741203 S8738 SH 741203 LS BLACKBOX6 777324 54232 DICO 741207 741202 741203 S8738 SH 741203 LS BLACKBOX6 785367 52833 ARCO 741201 741202 741203 S8934 IP 741210 LS BLACKBOX7 99842 FEDS OR 741210 LS BLACKBOX7 99842 FEDS OR 741227 LS BLACKBOX7 733597 84351 AMCO 741227 741227 SH 741202 LS BLACKBOX7 733597 84351 AMCO 741227 741201 741202 741202 S8531 IP 741226 LS BLACKBOX7 733597 84381 FEDS 741215 741215 OR 741201 LS BLACKBOX7 733597 84381 FEDS 741215 741215 OR 741202 LS BLACKBOX7 733597 84381 FEDS 741201 741201 741202 S8531 IP 741226 LS BLACKBOX7 733597 84381 FEDS 741215 741215 OR 741227 LS BLACKBOX7 733597 84381 FEDS 741215 741215 OR 741220 LS BLACKBOX7 733597 84381 FEDS 741215 741515 OR 741230 LS BLACKBOX7 733591 84381 FEDS 741215 741515 OR 741230 LS BLACKBOX7 733591 84381 FEDS 741215 741515 OR 741230 LS BLACKBOX7 933581 84381 FEDS 741215 741515 OR 741230 LS BLACKBOX8 92788 FEDS		TNE			<b>T</b> 1 N	rm .	DT .			017	<b>г</b> . гл.		117 15	aup.			T NL	DOUD		
	L	102	P 1	~	г п С / С	TT P	RLP			51	r T Þ		nLU nLU	CHRP	~ <i>·</i> · · · <sup>!</sup>	nLU		PSWDD		TNDO
<pre>. &lt;&lt;&lt; CORPORATE PRODUCTION STATUS &gt;&gt;&gt; *ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. *CD. DATE .IN. TYPE .NUMBER.COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. *====================================</pre>	•	DAT	E 8	3/0	6/2	.0	15:23	:42	T	PE	=B	RU	0=002	82/0	8/11	JI	DOE	<	48 L	INES>
*ST.STATUS.BY. PRODUCT       SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP       SHIP       SHIP       SPC.         *CD.DATE       IN. TYPE       NUMBER.COST       NUMBR.CODE.PLAN       ACTUAL.DATE       ORDER.COD.         ***       ***       ***       ***       ***       ***       ***       ****       ****       ****       ****       ****       ****       ****       ****       *****       *****       *****       *****       *****       *****       *****       ******       ******       ********       **********       ***********       ************************************	•	<<	< C	ORP	ORA	TE	PRODU	CTI	ON S	5TA	TUS		>>							
*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD.         ************************************	*	ST.	STAT	US.	BY.	PF	RODUCT	. S	ERI	AL.	PRC	DUC	. ORDER	. CUST	. PRO	DUC	. PRODUC	. SHIP	.SHIP	.SPC.
X==       IP       741224       LS       BLACKBOX1▷436767       84389       AMCO       741223       741224         IP       741225       LS       BLACKBOX1 & 436768       84390       AMCO       741223       741225         IP       741219       LS       BLACKBOX2       637071       84353       INTR       741218       741219         OR       750110       LS       BLACKBOX5       675281       97441       FEDS       750131         IP       741222       LS       BLACKBOX5       675281       97441       FEDS       741202       741203       S8738         SC       750110       LS       BLACKBOX5       737582       84040       AMCO       741222       741203       S8738         SH       741203       LS       BLACKBOX6       76827       54237       FEDS       741201       741202       S6937         SH       741202       LS       BLACKBOX6       777324       54232       DICO       741202       741203       S8938         SH       741203       LS       BLACKBOX6       785367       52833       ARCO       741201       741202       S41209       S8538         SH       741203 <t< td=""><td>*</td><td>CD.</td><td>DAT</td><td>Έ.</td><td>IN.</td><td>1</td><td>TYPE</td><td>. N</td><td>UMBI</td><td>ER.</td><td>CC</td><td>ST</td><td>. NUMBR</td><td>. CODE</td><td>. PL</td><td>AN .</td><td>. ACTUAL</td><td>. DATE</td><td>. ORDEF</td><td>R.COD.</td></t<>	*	CD.	DAT	Έ.	IN.	1	TYPE	. N	UMBI	ER.	CC	ST	. NUMBR	. CODE	. PL	AN .	. ACTUAL	. DATE	. ORDEF	R.COD.
IP       741224       LS       BLACKBOX1▷436767       84389       AMCO       741223       741224         IP       741225       LS       BLACKBOX1       436768       84390       AMCO       741223       741225         IP       741219       LS       BLACKBOX2       637071       84353       INTR       741213       741219         OR       750110       LS       BLACKBOX4       94754       ARCO         SC       750110       LS       BLACKBOX5       675281       97441       FEDS       750131         IP       741222       LS       BLACKBOX0       746327       54237       FEDS       741201       741202       56937         SH       741202       LS       BLACKBOX6       368061       54438       FEDS       741201       741202       S6937         SH       741202       LS       BLACKBOX6       785367       52833       ARCO       741202       741203       S8934         IP       741216       LS       BLACKBOX7       596581       89381       INTR       741210       741203       S8934         IP       741227       LS       BLACKBOX7       665481       97541       FEDS       750122	*	==.	====	==.	==.	===	*****	=.=	= = = :	=.	= = =	===	. = = = = = =	. = = = =	. = = = :	= = = .	. = = = = = = = =	. = = = = = =	. = = = = =	.===.
IP       741225       LS       BLACKBOX1       436768       84390       AMCO       741223       741225         IP       741219       LS       BLACKBOX2       637071       84353       INTR       741218       741219         OR       750110       LS       BLACKBOX4       94754       ARCO         SC       750110       LS       BLACKBOX5       675281       97441       FEDS       750131         IP       741222       LS       BLACKBOX5       675281       97441       FEDS       741202       741203       S8738         SH       741202       LS       BLACKBOX6       746327       54237       FEDS       741201       741202       56937         SH       741202       LS       BLACKBOX6       368061       54438       FEDS       741201       741202       S6937         SH       741203       LS       BLACKBOX6       785367       52833       ARCO       741202       741203       S8934         SH       741210       LS       BLACKBOX7       926581       89381       INTR       741215       741203       S8934         OR       741227       LS       BLACKBOX7       665481       97541		ΙP	7412	24	LS	BL/	ACKBOX	104	3670	570	2		84389	AMCO	741	223	741224			
IP       741219       LS       BLACKBOX2       637071       84353       INTR       741218       741219         OR       750110       LS       BLACKBOX4       94754       ARCO         SC       750110       LS       BLACKBOX5       675281       97441       FEDS       750131         IP       741222       LS       BLACKBOX5       675281       97441       FEDS       741202       741203       S8738         SH       741203       LS       BLACKBOX6       736327       54237       FEDS       741201       741202       741203       S8738         SH       741209       LS       BLACKBOX6       368061       54438       FEDS       741201       741202       S6937         SH       741203       LS       BLACKBOX6       77324       54232       DICO       741201       741202       S6937         SH       741203       LS       BLACKBOX6       785367       52833       ARCO       741201       741203       S8934         IP       741210       LS       BLACKBOX7       996581       89381       INTR       741215       741203       S8934         OR       741210       LS       BLACKBOX7		IP	7412	25	LS	BL	ACKBOX	14	3670	58			84390	AMCO	741	223	741225			
OR       750110       LS       BLACKBOX4       94754       ARCO         SC       750110       LS       BLACKBOX5       675281       97441       FEDS       750131         IP       741222       LS       BLACKBOX5       737582       84040       AMCO       741222       741203       S8738         SH       741203       LS       BLACKBOX0       746327       54237       FEDS       741201       741202       741203       S8738         SH       741202       LS       BLACKBOX6       368061       54438       FEDS       741201       741202       S6937         SH       741203       LS       BLACKBOX6       77324       54232       DICO       741203       741209       S8538         SH       741203       LS       BLACKBOX6       785367       52833       ARCO       741201       741203       S8934         IP       741216       LS       BLACKBOX7       99642       FEDS       741216       S8       S89341       INTR       741215       741203       S8934         OR       741210       LS       BLACKBOX7       665481       97541       FEDS       750122       FEDS       750122       IP		IP	7412	19	LS	BL!	ACKBOX	26	370	71			84353	INTR	741	218	741219			
SC 750110       LS BLACKBOX5       675281       97441       FEDS       750131         IP 741222       LS BLACKBOX5       737582       84040       AMCO       741222       741202         SH 741203       LS BLACKBOX0       746327       54237       FEDS       741201       741202       741203       S8738         SH 741202       LS BLACKBOX6       368061       54438       FEDS       741201       741202       S6937         SH 741203       LS BLACKBOX6       777324       54237       FEDS       741201       741202       S6937         SH 741203       LS BLACKBOX6       777324       54232       DICO       741202       741203       S8538         SH 741203       LS BLACKBOX6       785367       52833       ARCO       741202       741203       S8934         IP 741216       LS BLACKBOX7       926581       89381       INTR       741215       741203       S8934         OR 741210       LS BLACKBOX7       99642       FEDS       750122       741203       S8934         OR 741227       LS BLACKBOX7       665481       97541       FEDS       750122       FEDS       750122         IP 741202       LS BLACKBOX7       733597       84351		OR	7501	10	LS	BL/	ACKBOX	4					94754	ARCO						
IP       741222       LS       BLACKBOX5       737582       84040       AMCO       741222       741222         SH       741203       LS       BLACKBOX0       746327       54237       FEDS       741201       741202       741203       S8738         SH       741202       LS       BLACKBOX6       368061       54438       FEDS       741201       741202       S6937         SH       741209       LS       BLACKBOX6       777324       54232       DICO       741202       741203       S6937         SH       741203       LS       BLACKBOX6       777324       54232       DICO       741202       741202       S6937         SH       741203       LS       BLACKBOX6       777324       54232       DICO       741202       741203       S8938         IP       741216       LS       BLACKBOX6       926581       89381       INTR       741215       741203       S8934         OR       741227       LS       BLACKBOX7       99642       FEDS       750122         OR       741227       LS       BLACKBOX7       665481       97541       FEDS       750122         IP       741202       LS		SC	7501	10	LS	BL/	ACKBOX	56	752	31			97441	FEDS	750	131				
SH 741203 LS BLACKBOX0 746327       54237 FEDS 741201 741202 741203 S8738         SH 741202 LS BLACKBOX6 368061       54438 FEDS 741201 741201 741202 S6937         SH 741209 LS BLACKBOX6 777324       54232 DICO 741207 741208 741209 S8538         SH 741203 LS BLACKBOX6 785367       52833 ARCO 741201 741202 741203 S8934         IP 741216 LS BLACKBOX6 785367       52833 ARCO 741201 741202 741203 S8934         OR 741210 LS BLACKBOX6 926581       89381 INTR 741215 741216         OR 741210 LS BLACKBOX7       99842 FEDS         OR 741227 LS BLACKBOX7 665481       97541 FEDS 750122         IP 741227 LS BLACKBOX7 733597       84351 AMCO 741227 741227         SH 741202 LS BLACKBOX7 733597       84351 AMCO 741227 741201 741202 S8531         IP 741215 LS BLACKBOX7 933581       84381 FEDS 741215 741515         OR 741220 LS BLACKBOX7 933581       84381 FEDS 741215 741515         OR 741230 LS BLACKBOX8       92788 FEDS		IP	7412	22	LS	BLA	ACKBOX	57	3758	32			84040	AMCO	741	222	741222			
SH 741202 LS BLACKBOX6 368061       54438 FEDS 741201 741201 741202 S6937         SH 741209 LS BLACKBOX6 777324       54232 DICO 741207 741208 741209 S8538         SH 741203 LS BLACKBOX6 785367       52833 ARCO 741201 741202 741203 S8934         IP 741216 LS BLACKBOX6 926581       89381 INTR 741215 741216         OR 741210 LS BLACKBOX7       99842 FEDS         OR 741227 LS BLACKBOX7 665481       9755 INTR         SC 750108 LS BLACKBOX7 665481       97541 FEDS 750122         IP 741227 LS BLACKBOX7 733597       84351 AMCO 741227 741227         SH 741202 LS BLACKBOX7 733597       84351 AMCO 741201 741202 S8531         IP 741215 LS BLACKBOX7 933581       84381 FEDS 741215 741515         OR 741230 LS BLACKBOX8       92788 FEDS		SH	7412	03	LŞ	BL/	ACKBOX	07	463	27			54237	FEDS	741	201	741202	741203	S8738	}
SH 741209 LS BLACKBOX6 777324       54232 DICO 741207 741208 741209 S8538         SH 741203 LS BLACKBOX6 785367       52833 ARCO 741201 741202 741203 S8934         IP 741216 LS BLACKBOX6 926581       89381 INTR 741215 741216         OR 741210 LS BLACKBOX7       99842 FEDS         OR 741227 LS BLACKBOX7       99725 INTR         SC 750108 LS BLACKBOX7 665481       97541 FEDS 750122         IP 741227 LS BLACKBOX7 733597       84351 AMCO 741227 741227         SH 741202 LS BLACKBOX7 744627       44232 INTR 741201 741201 741202 S8531         IP 741215 LS BLACKBOX7 933581       84381 FEDS 741215 741515         OR 741230 LS BLACKBOX8       92788 FEDS		SH	7412	.02	LS	BL/	ACKBOX	63	680	51			54438	FEDS	741	201	741201	741202	S6937	7
SH 741203 LS BLACKBOX6 785367       52833 ARCO 741201 741202 741203 S8934         IP 741216 LS BLACKBOX6 926581       89381 INTR 741215 741216         OR 741210 LS BLACKBOX7       99842 FEDS         OR 741227 LS BLACKBOX7       99725 INTR         SC 750108 LS BLACKBOX7 733597       84351 AMCO 741201 741202 741202         SH 741202 LS BLACKBOX7 744627       44232 INTR 741201 741201 741202 S8531         IP 741215 LS BLACKBOX7 933581       84381 FEDS 741215 741515         OR 741230 LS BLACKBOX8       92788 FEDS		SH	7412	09	LS	BL	CKBOX	67	773	24			54232	DICO	741	207	741208	741209	S8538	3
IP       741216       LS       BLACKBOX6       926581       89381       INTR       741215       741216         OR       741210       LS       BLACKBOX7       99842       FEDS         OR       741227       LS       BLACKBOX7       99725       INTR         SC       750108       LS       BLACKBOX7       665481       97541       FEDS       750122         IP       741227       LS       BLACKBOX7       733597       84351       AMCO       741227       741202       S         SH       741202       LS       BLACKBOX7       744627       44232       INTR       741201       741202       S8531         IP       741215       LS       BLACKBOX7       933581       84381       FEDS       741215       741202       S8531         OR       741230       LS       BLACKBOX8       92788       FEDS		SH	7412	03	LS	BL1	ACKBOX	67	853	57			52833	ARCO	741	201	741202	741203	S8934	1
OR 741210 LS BLACKBOX7       99842 FEDS         OR 741227 LS BLACKBOX7       99725 INTR         SC 750108 LS BLACKBOX7 665481       97541 FEDS 750122         IP 741227 LS BLACKBOX7 733597       84351 AMCO 741227 741227         SH 741202 LS BLACKBOX7 744627       44232 INTR 741201 741201 741202 S8531         IP 741215 LS BLACKBOX7 933581       84381 FEDS 741215 741515         OR 741230 LS BLACKBOX8       92788 FEDS		IP	7412	16	LS	BL	CKBOX	69	265	31			89381	INTR	741	215	741216			
OR         741227         LS         BLACKBOX7         99725         INTR           SC         750108         LS         BLACKBOX7         665481         97541         FEDS         750122           IP         741227         LS         BLACKBOX7         733597         84351         AMCO         741227         741227           SH         741202         LS         BLACKBOX7         744627         44232         INTR         741201         741202         S8531           IP         741215         LS         BLACKBOX7         933581         84381         FEDS         741515           OR         741230         LS         BLACKBOX8         92788         FEDS		OR	7412	10	LS	BL	CKBOX	7					99842	FEDS						
SC         750108         LS         BLACKBOX7         665481         97541         FEDS         750122           IP         741227         LS         BLACKBOX7         733597         84351         AMCO         741227         741227           SH         741202         LS         BLACKBOX7         744627         44232         INTR         741201         741202         S8531           IP         741215         LS         BLACKBOX7         933581         84381         FEDS         741215         741202         S8531           OR         741230         LS         BLACKBOX8         92788         FEDS         741515		OR	7412	27	LS	BL/	CKBOX	7					99725	INTR						
IP 741227 LS BLACKBOX7 733597       84351 AMCO 741227 741227         SH 741202 LS BLACKBOX7 744627       44232 INTR 741201 741201 741202 S8531         IP 741215 LS BLACKBOX7 933581       84381 FEDS 741215 741515         OR 741230 LS BLACKBOX8       92788 FEDS	2	SC	7501	08	LS	BLA	CKBOX	76	654	31			97541	FEDS	750	122				
SH         741202         LS         BLACKBOX7         744627         44232         INTR         741201         741202         S8531           IP         741215         LS         BLACKBOX7         933581         84381         FEDS         741215         741202         S8531           OR         741230         LS         BLACKBOX8         92788         FEDS		IP	7412	27	LS	BLA	CKBOX	77	3359	97			84351	AMCO	741	227	741227			
IP 741215 LS BLACKBOX7 933581 84381 FEDS 741215 741515 OR 741230 LS BLACKBOX8 92788 FEDS		SH	7412	02	LS	BL	CKBOX	77	446	27			44232	INTR	741	201	741201	741202	S8531	[
OR 741230 LS BLACKBOX8 92788 FEDS		IP	7412	15	LS	BL	CKBOX	79	335	31			84381	FEDS	741	215	741515			
		OR	7412	30	ĹS	BL	CKBOX	8 ັ		-			92788	FEDS						

In the next screen, the cursor returns to the control line and the screen contains the updated data. With each transaction, the current date and time and your user id appear in the date line (line 1).

													<u> </u>	
LIN	Eb 10	FY	(TD	RL.b		SHFTS		HLD	CHR♭	HLD	LND	PSWD.	D	,
גת	TF 83/	06/2	24 15	5.55.0	06 TY	PF=R	RID	=002	82/08	VII .1	DOF		48 LINES	
			מיד מי	າວແຕ	PTONS	1 0-0 ጥልጥጠፍ		\	02/00	<i>,</i>	DOL	•		
	STATUS	RY		1000001 1007	SEDIA		ງກາເຕົ	ÓPDFP	CUST	PRODUC	PRODUC	SHIP	SHIP SPC	
*00	DATE	TN TN	TYP	OCI .	NUMBE		ST.	NIMBR	CODE	PIAN	ACTUAL	DATE	ORDER COD	
*==	- DATE							=====			.ACTORE	- DAIL		
TP	741224	LS	BLACK	ROXI	43676	6	•	84389	AMCO	741223	741224			
ÎP	741225	LS	BLACK	ROXI	43676	Ř		84390	AMCO	741223	741225			
Î	741219	Ĩ.S	BLACK	BOX 2	63707	ĭ		84353	INTR	741218	741219			
ÖR	750110	LS	BLACK	BOX4		-		94754	ARCO		,			
SC	750110	LS	BLACK	BOX5	67528	1		97441	FEDS	750131				
IP	741222	ĹŜ	BLACK	BOX5	73758	2		84040	AMCO	741222	741222			
SH	741203	LS	BLACK	(BOX0	74632	7		54237	FEDS	741201	741202	741203	S8738	
SH	741202	LS	BLACK	(BOX6	36806	1		54438	FEDS	741201	741201	741202	S6937	
SH	741209	LS	BLACK	(BOX6	77732	4		54232	DICO	741207	741208	741209	S8538	
SH	741203	LS	BLACH	BOX6	78536	7		52833	ARCO	741201	741202	741203	58934	
IP	741216	LS	BLACK	BOX6	92658	1		89381	INTR	741215	741216			
OR	741210	LS	BLACK	BOX7				99842	FEDS					
OR	741227	LS	BLACK	BOX7				99725	INTR					
SC	750108	LS	BLACK	BOX7	66548	1		97541	FEDS	750122				
IP	741227	LS	BLACK	BOX7	73359	7		84351	AMCO	741227	741227			
SH	741202	LS	BLACH	BOX7	74462	7		44232	INTR	741201	741201	741202	S8531	
IP	741215	LS	BLACK	BOX7	93358	i		84381	FEDS	741215	741515			
ŌR	741230	LS	BLACK	KBOX8		-		92788	FEDS					

## 6.2.2. ADD LINE Function

The ADD LINE function adds new or predefined lines to a report.

## 6.2.2.1. Adding New Lines

The ADD LINE function can insert new lines in a report. Tab characters are automatically inserted in the locations defined for the form type.

To add lines, erase the line just ahead of where you want to add lines and enter:

⊳]n+

where:

 $\triangleright$ 

Is the SOE character.

]

Is a closing bracket (the character that calls for a line quantity change).

n

Is the number of lines to add (maximum 99).

+

Is a plus sign (the function call to add lines).

UP-9735

The following screen shows report 2B with the first data line erased and the ADD LINE function request entered:

LINE 1 .DATE FMT⊳ RL⊧ SHFT⊳ HLD CHRP HLD LN♭ PSWD. 83/06/24 15:55:06 TYPE=B RID=002 82/08/11 JDOE 48 LINES> ۲ CORPORATE PRODUCTION STATUS **<**<< >>> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*== ==: ▶]]+Ø IP 741225 LS BLACKBOX1 436768 IP 741219 LS BLACKBOX2 637071 OR 750110 LS BLACKBOX4 84390 AMCO 741223 741225 84353 INTR 741218 741219 94754 ARCO SC 750110 LS BLACKBOX5 675281 IP 741222 LS BLACKBOX5 737582 97441 FEDS 750131 741222 741222 741222 LS BLACKBOX5 737582 84040 AMCO SH 741203 LS BLACKBOX0 746327 54237 FEDS 741201 741202 741203 S8738 SH 741202 LS BLACKBOX6 7682/ SH 741209 LS BLACKBOX6 368061 SH 741203 LS BLACKBOX6 777324 SH 741203 LS BLACKBOX6 785367 IP 741216 LS BLACKBOX6 926581 54438 FEDS 741201 741201 741202 S6937 54232 DICO 741207 741208 741209 S8538 52833 ARCO 741201 741202 741203 S8934 89381 INTR 741215 741216 99842 FEDS 99725 INTR 97541 FEDS 750122 OR 741210 LS BLACKBOX7 OR 741227 LS BLACKBOX7 SC 750108 LS BLACKBOX7 665481 IP 741227 LS BLACKBOX7 733597 SH 741202 LS BLACKBOX7 744627 84351 AMCO 741227 741227 44232 INTR 741201 741201 741202 S8531 IP 741215 LS BLACKBOX7 933581 84381 FEDS 741215 741515 OR 741230 LS BLACKBOX8 92788 FEDS

After you press the XMIT key, a blank line appears after the first data line, and the line where you submitted the request reappears:

HLD CHRD PSWD<sub>b</sub> LINED 10 FMT⊳ RLD SHFT⊳ HLD LND 49 LINES> .DATE 83/06/24 15:59:34 TYPE=B RID=002 82/08/11 JDOE CORPORATE PRODUCTION STATUS >>> ... \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*CD. DATE .IN. TYPE IP 741224 LS BLACKBOX1 436766 84389 AMCO 741223 741224 IP 741225 LS BLACKBOX1 436768 84390 AMCO 741223 741225 IP 741219 LS BLACKBOX2 637071 OR 750110 LS BLACKBOX4 84353 INTR 741218 741219 94754 ARCO SC 750110 LS BLACKBOX5 675281 97441 FEDS 750131 84040 AMCO 741222 741222 54237 FEDS 741201 741202 741203 S8738 54438 FEDS 741201 741201 741202 S6937 IP 741222 LS BLACKBOX5 737582 SH 741203 LS BLACKBOX0 746327 SH 741202 LS BLACKBOX6 368061 54232 DICO 741207 741208 741209 58538 52833 ARCO 741201 741202 741203 58934 SH 741209 LS BLACKBOX6 777324 SH 741203 LS BLACKBOX6 785367 IP 741216 LS BLACKBOX6 926581 OR 741210 LS BLACKBOX7 89381 INTR 741215 741216 99842 FEDS OR 741227 LS BLACKBOX7 SC 750108 LS BLACKBOX7 665481 99725 INTR 97541 FEDS 750122 IP 741227 LS BLACKBOX7 733597 SH 741202 LS BLACKBOX7 744627 84351 AMCO 741227 741227 44232 INTR 741201 741201 741202 S8531 IP 741215 LS BLACKBOX7 933581 84381 FEDS 741215 741515

You can now enter data in the blank line using the SOE UPDATE function (see 6.2.1).

## 6.2.2.2. Adding Predefined Lines

The ADD LINE function can add predefined lines that already include data in certain fields. These predefined lines are especially useful when several fields of data are identical for a group of added lines, and for adding asterisk, period, and blank type lines to the report.

You can predefine a maximum of 9 lines.

To add predefined lines, erase the line where you made the request and enter:

⊳]n+p

where:

 $\triangleright$ 

Is the SOE character.

1

Is a closing bracket (the character that calls for a line quantity change).

n

Is the number of lines to add.

+

Is a plus sign (the function call to add lines).

р

Is the type of predefined line defined in RID 0 of the form type: the first predefined line equals 1, the second predefined line equals 2, etc.

## NOTE:

To see which predefined lines are available, add a report using the ADD REPORT function (6.3.1). The new report displays any predefined lines set up for the form type. Your MAPPER 80 coordinator can give you more details on predefined lines.

The following example shows how to add one type 1 predefined line:

				<u></u>					· _ · · · · · · · · · · · · · · ·			
📱 LINE	Co 1	FMT	rþ RLÞ	SH	FT⊳	HLD	CHR⊳	HLI	) LNÞ	PSWD b	Þ	
.DA1	NE 83/	06/24	15:59:	34 TYPE	=B RID=	•002	82/08	3/11 3	DOE	<	49 LINES>	
. <<	< COR	PORAT	'E PRODUC'	TION STA	TUS >>>	•						
<b>★ST</b> .	STATUS	. BY .	PRODUCT	.SERIAL.	PRODUC.C	RDER.	CUST.	. PRODUC	. PRODUC	. SHIP	.SHIP .SPC.	
∦ *CD.	DATE	.IN.	TYPE	.NUMBER.	COST .N	IUMBR.	CODE .	. PLAN	. ACTUAL	. DATE	.ORDER.COD.	
*==.	=====	.==.=		.=====.		====.	====	_ = = = = = = =	.======	.======	.====.===.	
IP	741224	LS E	BLACKBOX1	436766	8	84389	AMCO	741223	741224			
Þ <u>]</u> ]+	10											
	741225	LSE	SLACKBOX1	436768	8	34390	AMCO	741223	741225			
	741219		SLACKBOX 2	637071	8	4353	INTR	741218	741219			
	750110		SLACKBOX4	675201	9	4754	ARCO	750101				
	741222		SLACKBUND	0/0401	50	7/441 AOAO	I EDS	74122	741222			
	741222		DLACKDUND	13/302		54040	FEDG	741222	741264	741202	60720	
อก ตน	741203		DI ACKDOAU	268061		54439	FEDS	741201	741202	741203	50750	
חכ עיס	741202		ACKBOX6	777374		54727	DICO	741201	741201	741202	58538	
 	741203		ACKBOX6	785367	Ē	2832	ARCO	741201	741202	741203	58934	
TP	741216	LS F	SI ACKBOX6	926581	, A	19381	INTR	74121	741216		00001	
ÔR	741210	LS E	BLACKBOX7	540001	ģ	9842	FEDS					
OR	741227	LS F	BLACKBOX7		ģ	9725	INTR					
SC	750108	LS E	BLACKBOX7	665481	g	97541	FEDS	750122	2			
Î Î P	741227	LS E	BLACKBOX7	733597	ē	34351	AMCO	741227	741227			
SH	741202	LS E	BLACKBOX7	744627	4	4232	INTR	741201	741201	741202	S8531	
IP	741215	LSE	BLACKBOX7	933581	e	34381	FEDS	741215	741515			

The next screen shows that the erased line is restored and the predefined data is in the added line.

LINED 1 FNTD RLD SHFTD HLD CHRD HLD LND PSWDD	Þ
.DATE 83/06/24 16:06:01 TYPE=B RID=002 82/08/11 JDOE < 50 LINES	5>
. <<< CORPORATE PRODUCTION STATUS >>>	
*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC	
*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD	).
	٠.
IP 741224 LS BLACKBOXI 436766 84389 AMCO 741223 741224	
TP 741225 IS BLACKBOYL 436768 84390 MCO 741223 741225	
IP 741219 IS BLACKBOX2 637071 84353 INTR 741218 741219	
OR 750110 LS BLACKBOX4 94754 ARCO	
SC 750110 LS BLACKBOX5 675281 97441 FEDS 750131	
IP 741222 LS BLACKBOX5 737582 84040 AMC0 741222 741222	
SH 741203 LS BLACKBOX0 746327 54237 FEDS 741201 741202 741203 S8738	
SH 741202 LS BLACKBOX6 368061 54438 FEDS 741201 741201 741202 S6937	
SH 741209 LS BLACKBOX6 777324 54232 DICO 741207 741208 741209 S8538	
SH 741203 LS BLACKBOX6 785367 52833 ARCO 741201 741202 741203 S8934	
IP 741216 LS BLACKBOX6 926581 89381 INTR 741215 741216	
OR 741210 LS BLACKBOX7 99842 FEDS	
CR 741227 LS BLACKBOX7 99725 INTR	
SC 750108 LS BLACKBOX7 665481 97541 FEDS 750122	
IP 741227 LS BLACKBOX7 733597 84351 AMCO 741227 741227	
SH 741202 LS BLACKBOX7 744627 44232 INTR 741201 741201 741202 \$8531	

## 6.2.3. DUPLICATE LINE Function

The DUPLICATE LINE function duplicates lines within a report or result. It is especially useful for adding multiple lines of data with repetitive fields.

To duplicate lines, erase the line you want to duplicate and enter:

⊳]nx

where:

 $\triangleright$ 

Is the SOE character.

]

Is a closing bracket (the character that calls for a line quantity change).

n

Is the number of times to duplicate the line.

X

Is alphabetic X (the function call to duplicate lines).

Optionally, you can duplicate a group of lines by adding another number to the request statement:

⊳]nXg

where:

g

Is the number of lines in the group, and n times g cannot exceed 99.

NOTE:

You can only duplicate those lines displayed on the screen.

Figure 6–1 shows how to duplicate the line where the request is made.

The line (now erased) is:

OR XX BOX XXXX



		<u></u>	<u> </u>
LINED 1 FMTD RLD	SHFT> HLD	CHR> HLD LN>	PSWD0 0
.DATE 83/06/24 16:06:01	TYPE=B RID=002	82/08/11 JDOE	< 50 LINES>
. <<< CORPORATE PRODUCTIO	ON STATUS >>>		
*ST.STATUS.BI. PRODUCT .SI	IMPED COST NUMPD	CODE PLAN ACTUAL	. SHIP . SHIP . SPC.
$\star$		STAR ACTOR	
IP 741224 LS BLACKBOX1 43	36766 84389	AMCO 741223 741224	
♦JlxØ			
IP 741225 LS BLACKBOX1 4	36768 84390	AMCO 741223 741225	
IP 741219 LS BLACKBOX2 6	37071 84353	INTR 741218 741219	
UR /50110 LS BLACKBUX4	75201 94/04	AKUU	
ID 741222 IS BLACKBOND 0	75261 97441 37582 84040	AMCO 741222 741222	
SH 741203 LS BLACKBOXO 74	46327 54237	FEDS 741201 741202	741203 58738
SH 741202 LS BLACKBOX6 30	68061 54438	FEDS 741201 741201	741202 \$6937
SH 741209 LS BLACKBOX6 7	77324 54232	DICO 741207 741208	741209 \$8538
SH 741203 LS BLACKBOX6 78	85367 52833	ARCO 741201 741202	741203 58934
IP 741216 LS BLACKBOX6 92	26581 89381	INTR 741215 741216	
OR 741210 LS BLACKBOX7	99842	LDS	
CK /4122/ LS BLACKBUX/	65481 99720 65481 97541	INIK FFDG 750122	
IP 741227 IS RIACKBOX7 7	33597 84351	AMCO 741227 741227	
SH 741202 LS BLACKBOX7 74	44627 44232	INTR 741201 741201	741202 \$8531

Figure 6–1. Duplicating Lines

In the next screen, the original line reappears with the duplicated line.

	LINED 1 FMTD RLD SHFTD HLD	CHR> HLD LN> PSWD> >
	.DATE 83/06/24 16:10:04 TYPE=B RID=002	82/08/11 JDOE < 51 LINES>
	*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER	.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC.
	CD. DATE .IN. TYPE .NUMBER. COST .NUMBR	.CODE. PLAN .ACTUAL. DATE .ORDER.COD.
		.====.====.===.===.===.===.===.
	IP 741224 LS BLACKBOX1 436766 84389	AMCO /41223 /41224
		XXXX
		XXXX
	IP 741225 LS BLACKBOX1 436768 84390	AMCO 741223 741225
	IP 741219 LS BLACKBOX2 637071 84353	INTR 741218 741219
	OR 750110 LS BLACKBOX4 94754	ARCO
	SC 750110 LS BLACKBOX5 675281 97441	FEDS 750131
	IP 741222 LS BLACKBOX5 737582 84040	AMCO 741222 741222
	SH 741203 LS BLACKBOX0 746327 54237	FEDS 741201 741202 741203 S8738
	SH 741202 LS BLACKBOX6 368061 54438	FEDS 741201 741201 741202 S6937
<u>) - 1</u>	SH 741209 LS BLACKBOX6 777324 54232	DICO 741207 741208 741209 S8538
	SH 741203 LS BLACKBOX6 785367 52833	ARCO 741201 741202 741203 58934
	IP 741216 LS BLACKBOX6 926581 89381	INTR 741215 741216
49.2	OR 741210 LS BLACKBOX7 99842	FEDS
	OR 741227 LS BLACKBOX7 99725	INTR
	SC 750108 LS BLACKBOX7 665481 97541	FEDS 750122
	IP 741227 LS BLACKBOX7 733597 84351	AMCO 741227 741227
## 6.2.4. DELETE LINE Function

The DELETE LINE function deletes lines from reports. You can delete up to 999 lines in one request. If the number of lines to delete exceeds the number of lines in the report, the system deletes only up to the number of lines in the report.

To delete lines, erase the first line you want to delete and enter:

⊳]n-

where:

 $\triangleright$ 

]

Is the SOE character.

Is a closing bracket (the character that calls for a line quantity change).

n

Is the number of lines to delete (up to 999).

Is a minus sign (the function call to delete lines).

The following screen shows how to delete the two predefined lines:

LINE⊳ 1 FMT> RL> .DATE 83/06/24 16:10:1	SHFT> H 04 TYPE=B RID=00 FION STATUS	LD CHR⊳ HLD LN⊳ 2 82/08/11 JDOE	PSWD> > < 51 LINES>
*ST.STATUS.BY. PRODUCT *CD. DATE .IN. TYPE	.SERIAL.PRODUC.ORD NUMBER. COST .NUM	ER.CUST.PRODUC.PRODUC BR.CODE.PLAN .ACTUAL	. SHIP .SHIP .SPC. . DATE .ORDER.COD.
IP 741224 LS BLACKBOX1	436766 843	89 AMCO 741223 741224	
▶ 12-12 IP XX BOX IP 741225 LS BLACKBOX1 IP 741219 LS BLACKBOX2 OR 750110 LS BLACKBOX4 SC 750110 LS BLACKBOX5 IP 741202 LS BLACKBOX5 SH 741202 LS BLACKBOX6 SH 741203 LS BLACKBOX6 SH 741203 LS BLACKBOX6 IP 741216 LS BLACKBOX6 OR 741210 LS BLACKBOX7 OB 741217 LS BLACKBOX7	436768         843           637071         843           947           675281         974           737582         840           746327         542           368061         544           777324         542           785367         528           926581         893           998         998	XXXX 90 AMCO 741223 741225 53 INTR 741218 741219 54 ARCO 41 FEDS 750131 40 AMCO 741222 741222 37 FEDS 741201 741202 38 FEDS 741201 741201 32 DICO 741207 741208 33 ARCO 741201 741202 81 INTR 741215 741216 42 FEDS 25 INTP	741203 S8738 741202 S6937 741209 S8538 741203 S8934
SC 750108 LS BLACKBOX7 IP 741227 LS BLACKBOX7	665481 975 733597 843	41 FEDS 750122 51 AMCO 741227 741227	

The next screen shows the report after the two lines are deleted:

LIN	EÞ 10	FI	MT⊳ RL⊳	:	SHFT⊳	HLD	CHR⊳	HLD	LNÞ	PSWD≯	Þ	
. DA'	re 83/	06/:	24 16:13	:40 TYI	PE=B	RID=002	82/0	8/11 J	DOE	<	49 LINES>	
	<< COR	PORI	ATE PRODUC	CTION S'	ratus	>>>						
*ST	. STATUS	. BY	. PRODUCT	. SERIA	PRO	DUC.ORDER	. CUST	. PRODUC	. PRODUC	. SHIP	.SHIP .SPC.	
*CD	. DATE	.IN	. TYPE	. NUMBEI	R. CO	ST .NUMBR	. CODE	. PLAN	. ACTUAL	. DATE	.ORDER.COD.	
*==	.======	.==			_,===		.====		. = = = = = = = =	. = = = = = = =	.====.==.	200
IP	741224	LS	BLACKBOX.	4,3676	5	84389	AMCO	741223	741224			
TD	741 225	TC	DI LOVDOV	42676		04200	NHCO	741000	741225			114HD
	741220	LD	DLACKDUA	430/00	2	04390	TNTD	741223	741220			
	750110	IG	BLACKBOX	6 03707. I	L	94353	ADCO	/41210	/41215			19101
SC	750110	IS	BLACKBOX	67528	1	97441	FFDS	750131				
TP	741222	LS	BLACKBOX	73758	2	84040	AMCO	741222	741222			199
SH	741203	LS	BLACKBOX	74632	7	54237	FEDS	741201	741202	741203	58738	
SH	741202	LS	BLACKBOX	36806		54438	FEDS	741201	741201	741202	S6937	
SH	741209	LS	BLACKBOX	5 77732	4	54232	DICO	741207	741208	741209	S8538	
SH	741203	LS	BLACKBOX	5 78536	7	52833	ARCO	741201	741202	741203	S8934	
IP	741216	LS	BLACKBOX	5 92658	1	89381	INTR	741215	741216			antei ei
OR	741210	LS	BLACKBOX'	7		99842	FEDS		:			
OR	741227	LS	BLACKBOX'	7		99725	INTR					
SC	750108	LS	BLACKBOX	7 66548	L	97541	FEDS	750122				
IP	741227	LS	BLACKBOX	7 73359'	7	84351	AMCO	741227	741227			
SH	741202	LS	BLACKBOX	74462	7	44232	INTR	741201	741201	741202	S8531	
IP	741215	LS	BLACKBOX	7 93358:	L	84381	FEDS	741215	741515			anna a

## 6.2.5. ROLL BACK Function (RB)

The ROLL BACK function restores the contents of a report to the conditions existing before you used a line updating function to add, delete, duplicate, or update a line.

You can use the ROLL BACK function only on:

- A report displayed on the screen and
- The data in that report when it was initially called onto the screen by the DISPLAY function

٤

You cannot use this function with results or update results. In Figure 6–2, report 2B has one blank line added to it:

1	LINE	l⊳ rbØ	FI	1T⊳ RL⊳	SI	łFT⊳	HLD	CHR♭	HLD	LNÞ	PSWD b	Þ
	DA1	E 83/0	06/2	29 10:22:	53 TYPI	E≈B R	ID=002	82/08	3/11 JI	DOE	<	49 LINES>
	. ‹‹	< CORI	POR	ATE PRODUC	TION STA	ATUS	>>>					
<b></b> 7	⁺ST.	STATUS	. BY .	. PRODUCT	.SERIAL	. PRODU	IC.ORDER.	CUST.	PRODUC	. PRODUC .	SHIP	SHIP .SPC.
,	*CD.	DATE	.IN	. TYPE	. NUMBER	. COST	'.NUMBR.	CODE.	. PLAN	. ACTUAL	. DATE .	ORDER.COD.
2	*==.	=====	. = = .	. = = = = = = = = = = = =	. = = = = = =	. = = = = = =		====,		======	. = = = = = .	.====.
	IP	741224	LS	BLACKBOX1	436766		84389	AMCO	741223	741224		
										-		
	IP	741225	LS	BLACKBOXI	436768		84390	AMCO	741223	741225		
	IP	741219	LS	BLACKBOX2	637071		84353	INTR	741218	741219		
	OR	750110	LS	BLACKBOX4			94754	ARCO				
	SC	750110	LS	BLACKBOX5	675281		97441	FEDS	750131			
	ΙP	741222	LS	BLACKBOX5	737582		84040	AMCO	741222	741222		
	SH	741203	LS	BLACKBOX0	746327		54237	FEDS	741201	741202	741203	S8738
	SH	741202	LS	BLACKBOX6	368061		54438	FEDS	741201	741201	741202	S6937
	SH	741209	LS	BLACKBOX6	777324		54232	DICO	741207	741208	741209	S8538
	SH	741203	LS	BLACKBOX6	785367		52833	ARCO	741201	741202	741203	S8934
	IP	741216	LS	BLACKBOX6	926581		89381	INTR	741215	741216		
	OR	741210	LS	BLACKBOX7			99842	FEDS				
	OR	741227	LS	BLACKBOX7			99725	INTR				
	SC	750108	LS	BLACKBOX7	665481		97541	FEDS	750122			
	ΙP	741227	LS	BLACKBOX7	733597		84351	AMCO	741227	741227		
	SH	741202	LS	BLACKBOX7	744627		44232	INTR	741201	741201	741202	S8531
	IP	741215	LS	BLACKBOX7	933581		84381	FEDS	741215	741515		

Figure 6-2. Report before ROLL BACK Function

To use the ROLL BACK function, key in RB on line 0 of the displayed report (one that had a line updating function performed on it) and press the XMIT key. The report in Figure 6–2 is shown in Figure 6–3 after the ROLL BACK function.

LINED 1 FMTD RLD	SHFTD	HLD	CHR¢ HLD	LNP	PS₩D⊅	•
.DATE 83/06/10 16:30:	09 TYPE=B	RID=002	82/08/11 J	DOE	<	48 LINES>
. <<< CORPORATE PRODUC	TION STATUS	>>>				
*ST.STATUS.BY. PRODUCT	. SERIAL. PRO	DUC.ORDER	. CUST . PRODUC	. PRODUC .	SHIP .	SHIP SPC.
*CD. DATE .IN. TYPE	.NUMBER. CO	ST . NUMBR	.CODE. PLAN	. ACTUAL .	DATE	ORDER.COD.
				. = = = = = = .	. = = = = = = .	.====.
IP 741224 LS BLACKBOX	436767	84389	AMCO 741223	/41224		
IP 741225 LS BLACKBOX		84390	AMCU /41223	741225		
IP 741219 LS BLACKBOX	2 63/0/1	84353	INTR /41218	/41219		
OR 750110 LS BLACKBOX	675201	94/54	ARCU			
SC 750110 LS BLACKBOX	0 0/5281	9/441	FEDS /SUISI			
IP 741222 LS BLACKBOX	0 /3/582	84040	AMCU /41222	741222	741202	00730
SH 741203 LS BLACKBOX	746327	54.237	FED5 741201	741202	741203	58/38
SH 741202 LS BLACKBOX	368061	544.38	FEDS 741201	741201	741202	56937
SH 741209 LS BLACKBOX		54232	DICO 741207	741208	741209	58538
SH 741203 LS BLACKBOX		54833	AKCU /41201	741202	741203	20934
IP /41216 LS BLACKBURG	926581	89381	INIK /41215	/41210		
OR 741210 LS BLACKBOX		99842				
UK /4122/ LS BLACKBOX	/ 	99720	INIK FEDE 7EAL22			
= 5C / 50108 LS BLACKBUA= TP 741227 IS BLACKBUA	7 000481 7 733507	9/041	AMCO 741227	741227		
= IF /4I22/ LO DLACKDOX	7744677	44732	INTE 741201	741201	741202	58531
	7 933581	84381	FFDS 741215	741515	111402	00001
= 1 + 741210 + 10 + 10 + 10 + 10 + 10 + 10 + 10	20000L	97788	FFDS	/11010		
	,	52700	1 800			

Figure 6–3. Report after ROLL BACK Function

## 6.2.6. Report Security

You can assign a report password to a report at any time to prevent accidental destruction of report data. Once you assign a report password, you cannot update the report using the line update functions unless you first key in the password in the password field of line 0. The password is not displayed when displaying the report on the screen.

#### 6.2.6.1. How to Assign a Report Password

Follow these steps to create a report password:

- 1. Display the report on the screen.
- 2. Key in the password after the PSWD symbol in line 0 and press the XMIT key. A password can contain up to six alphanumeric characters.

Figure 6–4 shows the screen after you key in the password, passwd, but before you press the XMIT key.



Figure 6-4. Assigning a Report Password

After you press the XMIT key, the PSWD field of line 0 is blank.

NOTE:

Once you assign a password, you cannot modify the report without first entering that password.

#### 6.2.6.2. How to Change a Report Password

Use these steps to change a report password:

- 1. Display the password protected report on the screen.
- 2. Enter the existing password into the PSWD field (shown in Figure 6–4), and press the XMIT key.
- 3. Enter the new password into the PSWD field and press the XMIT key.

Figure 6–5 shows the screen after you key in the new password, newpsd, but before you press the XMIT key.

LINE> 1 FMT> RL> SHFT> HLD CHR> HLD LN> PSWD>newpsd2 > .DATE 83/06/29 13:15:36 TYPE=B RID=002 83/06/29 JDOE < 48 LINES>



After you press the XMIT key, the password is changed, and the PSWD field of line 0 is blank.

#### 6.2.6.3. How to Delete a Report Password

Follow these steps to delete a report password:

- 1. Display the password protected report on the screen.
- 2. Key in the password and press the XMIT key.
- 3. Key in CLEAR in the PSWD field and press the XMIT key to delete the report password.

LINE | FMT | RL | SHFT | HLD CHR | HLD LN | PSWD | clear | | | .DATE 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JDOE < 48 LINES |

NOTE:

You cannot use the word CLEAR as a report password.

## 6.3. REPORT UPDATE FUNCTIONS

#### 6.3.1. ADD REPORT Function (AR)

The ADD REPORT function adds a new report to the data base.

To call this function, key in AR and press the XMIT key. Figure 6–6 shows the ADD REPORT function request screen.

#### SPERRY OS/3 MAPPER 80 MANUAL FUNCTIONS



NOTES:

Use this field to specify the RID number of the new report. If you omit this field, the MAPPER 80 system (1)automatically assigns an open RID number.

(2) Use this field to specify the type (A through I) of the new report.

Figure 6–6. ADD REPORT Function Request Screen

In this example, key in type B and omit the report number:

**************************************	
[ ENTER REQUESTED INFORMATION ]	
REPORT NO. < > : '1' - '999' (IF YOU OMIT THE REPORT NO.	
TYPE (b) : 'A' - 'I'	
[ ENTER NEW FUNCTION REQUEST ]         FUNCTION       < 2	

The next screen shows the header and predefined lines of the new report displayed on the screen after you press the XMIT key. The added report is generated from the type B RID 0 definition.

LINE⊳ 1 .DATE 8 . <<< C *ST.STAT *CD.DAT *==.====	5 FMT 3/06/29 ORPORATI US.BY. I E.IN.	RLD 10:40:21 TY E PRODUCTION S PRODUCT .SERIA TYPE .NUMBE	SHFT> PE=B RID=( TATUS >>> L.PRODUC.OF R. COST .NU	HLD CH DO3 83 RDER.CL UMBR.CC	HR⊳ H 3/06/29 UST.PROD ODE.PLA	LD LN JDOE UC.PRODUC N.ACTUAL	PSWD < . SHIP . DATE .	16 LINES> .SHIP .SPC. .ORDER.COD.
IP	ХХ	BOX		XX	XXX			
		EN	D REPORT .	• • • •				

The new report is generated in type B. No RID number is specified, so the first available RID, RID3, is assigned. The RID number is displayed in line 1.

The added report contains only blank and predefined lines that you can delete or modify using the SOE UPDATE function (6.2.1.).

You can increase the number of displayed data lines using the ADD LINE function (6.2.2) or DUPLICATE LINE function (6.2.3.).

The fast access format for the ADD REPORT function is:

```
\begin{array}{c} AR \\ t \\ \end{array} \left\{ \begin{array}{c} rt \\ t \end{array} \right\}
```

where:

Is the RID number.

t

r

Is the type.

Example:

To perform the operation in the previous example, key in AR  $B \square$ .

## 6.3.2. DUPLICATE REPORT Function (XR)

The DUPLICATE REPORT function creates a new report by duplicating an existing report. You can also use this function to duplicate a result created by a function such as MATCH, SORT, or TOTALIZE. (See 2.4 for an explanation of a result.)

To call the DUPLICATE REPORT function, key in XR and press the XMIT key.

Figure 6–7 shows the DUPLICATE REPORT function request screen:



NOTES:

- (1) This field specifies the RID number of the report you want to duplicate. Key in a minus (-) sign to specify the report on display.
- (2) This field specifies the type (A to I) of the report you want to duplicate. However, if you specify as report number, you can omit this field.

Figure 6–7. DUPLICATE REPORT Function Request Screen

The following screen duplicates report 2B. The new report is assigned the first available RID number and takes the format of report 2B.

**************************************	
[ ENTER REQUESTED INFORMATION ]	
REPORT NO. (2) : '1' - '999' OR '-'	
ТҮРЕ <b>:'A'-'I' (WHEN REPORT NO. IS '-', YOU CAN OMIT TYPE)</b>	
[ ENTER NEW FUNCTION REQUEST ] FUNCTION < 2/2> PARAMETER < > \$320	•

Note that report 4B does not contain the identical line 1 header from report 2B. For more information on line 1 header items, see the MAPPER 80 form generation and utilities user guide, UP-9736 (current version).

When you press the XMIT key, report 2B (Figure 6–8) is duplicated to report 4B (Figure 6–9) and is displayed on the screen.

							<i>i</i>				
LINEÞ	10	FN	IT⊅ RL>	SH	IFT⊳	HLD	CHR⊅	HLD	LNÞ	PSWD⊅	Þ
. DATE	83/0	)6/2	20 15:23:4	12 TYPE	C=B RI	D=002	82/08	3/11 JI	DOE	<	48 LINES>
. ‹‹‹	CORE	POR	TE PRODUC'	TION STA	TUS	>>					
*ST.S	TATUS.	BY.	PRODUCT	SERIAL.	PRODUC	. ORDER	CUST	PRODUC	. PRODUC	. SHIP	.SHIP .SPC.
*CD.	DATE .	IN.	TYPE	NUMBER .	COST	. NUMBR	CODE.	PLAN	ACTUAL	. DATE	.ORDER.COD.
*==.=		==.		. = = = = = .	======	.=====	. = = = = .	******		. = = = = = =	.====.==.
IP 7	41224	LS	BLACKBOX1	436767		84389	AMCO	741223	741224		
IP 7	41225	LS	BLACKBOX1	436768		84390	AMCO	741223	741225		
IP 7	41219	LS	BLACKBOX2	637071		84353	INTR	741218	741219		
OR 7	50110	LS	BLACKBOX4			94754	ARCO				
SC 7	50110	LS	BLACKBOX5	675281		97441	FEDS	750131			
IP 7	41222	LS	BLACKBOX5	737582		84040	AMCO	741222	741222		
SH 7	41203	LS	BLACKBOX0	746327		54237	FEDS	741201	741202	741203	S8738
SH 7	41202	LS	BLACKBOX6	368061		54438	FEDS	741201	741201	741202	S6937
SH 7	41209	LS	BLACKBOX6	777324		54232	DICO	741207	741208	741209	S8538
SH 7	41203	LS	BLACKBOX6	785367		52833	ARCO	741201	741202	741203	58934
IP 7	41216	LS	BLACKBOX6	926581		89381	INTR	741215	741216		
OR 7	41210	LS	BLACKBOX7			99842	FEDS				
OR 7	41227	LS	BLACKBOX7			99725	INTR				
SC 7	50108	LS	BLACKBOX7	665481		97541	FEDS	750122			
-1P 7	41227	LS	BLACKBOX7	/33597		84351	AMCO	741227	741227		
SH 7	41202	LS	BLACKBOX7	/44627		44232	INTR	/41201	/41201	/41202	58531
IP 7	41215	L2	BLACKBUX7	933281		84381	FEDS	741215	/41515		
UR 7	41230	LS	BLACKBOX8			92788	FEDS				

Figure 6–8. Report 2B

LINED 12 FMTD RLD	SHFT⊳	HLD	CHR⊅	HLD	LND	PSWD⊳	•
.DATE 83/06/29 10:51:4	TYPE=B R	ID=004	83/06/	29 JE	ЮE	<	48 LINES>
. <<< CORPORATE PRODUCT	ION STATUS	>>>					
*ST.STATUS.BY. PRODUCT	SERIAL. PRODU	C.ORDER.	CUST . P	PRODUC.	PRODUC.	SHIP	SHIP SPC.
*CD. DATE .IN. TYPE .I	UMBER. COST	. NUMBR.	CODE .	PLAN .	ACTUAL.	DATE	ORDER.COD.
*==,=====,==,==,====,=			====,=		======	325222	.====.
IP 741224 LS BLACKBOX1 4	136767	84389	AMCO 7	41223	741224		
IP 741225 LS BLACKBOX1	136768	84390	AMCO 7	41223	741225		
IP 741219 LS BLACKBOX2	537071	84353	INTR 7	41218	741219		
OR 750110 LS BLACKBOX4		94754	ARCO				
SC 750110 LS BLACKBOX5	5/5281	9/441	FEDS /	121100			
IP 741222 LS BLACKBUX5	/37582	84040	ANCU 7	41222	741222	741000	00700
SH 741203 LS BLACKBOX0	46327	54237	FEDS /	41201	741202	741203	58/38
SH /41202 LS BLACKBOAG	368061	54438	FEDS /	41201	741201	741202	20937
SH /41209 LS BLACKBUX6	///324	54232	DICU /	41207	741208	741209	20230
	100301	54833	ARCU /	41201	741202	/41203	20324
IP /41210 LD BLACKBUND	10001	09301	THIR /	41215	/41210		
$= 0R^{\prime}/41210 LS DLACKDUA/$		33044	11100				
CC 750100 IS DIACKDON/	CE 401	99740	THIR PENC 7	750122			
	777507	9/041	AMCO 7	741227	741227		
IF /4122/ LO DLAUNDUA/     GU 741202 Γ C DI λΟΥΡΟΥΖ΄	744627	44722	INTO 7	741201	741201	741202	58531
	222581	84381	FFDS 7	741215	741515	1711202	00331
= 1r 741213 LS BLACKBOA7 = 00 741230 IS BLACKBOA7 = 00 741230 IS BLACKBOA	<b>JJJJJ</b> I	92788	FEDS	1215	/41313		
		52700					

Figure 6–9. Report 4B

The fast access format for the DUPLICATE REPORT function is:

 $\begin{array}{c} XR \\ - \end{array}$ 

where:

rt

Is a report not on display.

Is a report or result on display.

r

Is the RID number.

t

Is the type.

Example:

To perform the previous example, key in XR 2B.

# 6.3.3. REPLACE Function (REP)

The REPLACE function replaces the contents of a specified report (receiving report) with a report or result (issuing report). The issuing report can be the report or result currently displayed on the screen or some other report that is not on display.

The line length of both the receiving and issuing reports must be the same.

To call this function, key in REP and press the XMIT key. Figure 6–10 shows the REPLACE function request screen.



NOTES:

- 1. Specify the RID number and the type for both the issuing report and receiving report.
- 2. To specify the report or result on the screen as the issuing report, key in a minus sign (-) in the report number field and leave the type field blank.
- 3. You cannot use a minus sign (-) to specify the receiving report.

Figure 6–10. REPLACE Function Request Screen

In Figure 6–10, the report on the screen is the issuing report (-) and the receiving report is 3B.

When you press the XMIT key, the receiving report, 3B, receives new data (the contents of the issuing report) and is displayed on the screen:

LINED 12 FMTD RL> SHFTD	HLD CHRD HLD LND	PSWDb b
.DATE 83/06/29 11:01:46 TYPE=B RI	D=003 83/06/29 JDOE	< 48 LINES>
. <<< CORPORATE PRODUCTION STATUS >	>>	
*ST.STATUS.BY. PRODUCT SERIAL.PRODUC	. ORDER . CUST . PRODUC . PRODUC .	SHIP .SHIP .SPC.
*CD. DATE .IN. TYPE .NUMBER. COST	.NUMBR.CODE. PLAN .ACTUAL.	DATE .ORDER.COD.
***.******.**.*************************	.====.====.===.	
IP 741224 LS BLACKBOX1 436767	84389 AMCO 741223 741224	
IP 741225 LS BLACKBOX1 436768	84390 AMCO 741223 741225	
IP 741219 LS BLACKBOX2 637071	84353 INTR 741218 741219	
OR 750110 LS BLACKBOX4	94754 ARCU	
SC /50110 LS BLACKBUX5 6/5281	9/441 FED5 /50131	
IP /41222 LS BLACKBUAS /3/582	84040 AMCU /41222 /41222	741202 60720
	5423/ FED3 /41201 /41202 54430 FEDS 741301 741301	741203 30730
	54436 FED3 /41201 /41201 54222 DICO 741207 741209	741202 20537
CH 741203 L3 DLACKDOKO ///324	52622 ADCO 741207 741200	741203 50530
= 5n /41205 LS DLACKDONG /0000/ = 10 741216 LG DLACKDONG 026501	90391 INTO 741201 741202	/41203 30334
$\frac{11}{12} \frac{11}{12} \frac{10}{15} \frac{15}{12} \frac{10}{15} 10$	99842 FFDS	
OR 741227 LS BLACKBOX7	99725 INTR	
SC 750108 LS BLACKBOX7 665481	97541 FEDS 750122	
IP 741227 LS BLACKBOX7 733597	84351 AMCO 741227 741227	
SH 741202 LS BLACKBOX7 744627	44232 INTR 741201 741201	741202 58531
IP 741215 LS BLACKBOX7 933581	84381 FEDS 741215 741515	
OR 741230 LS BLACKBOX8	92788 FEDS	

The fast access format for the REPLACE REPORT function is:

REP r1t1,r2t2

#### where:

```
r1t1
Is an issuing report.
r2t2
Is a replaced report.
r1
Is the RID number. (Specify - for a report or result on the screen.)
t1
Is the type. (Omit if you specify - RID.)
r2
Is the RID number.
```

t2

Is the type.

#### Example:

To perform the previous example, key REP -, 3B.

## NOTE:

The user identification name (the person generating or updating the report) is included in each report. You cannot replace a report unless your user identification name (the user identification name used at sign-on) is identical to the one recorded in the report. If the names are not identical, an error message is displayed.

The RID password is ignored for the REPLACE function.

## 6.3.4. ADD ON Function (ADON)

The ADD ON function creates a new report by adding one report (known as the additional report) to another report or result (known as the original report). The original report may or may not be displayed on the screen.

The line length of the original and the additional reports must be the same.

To call the ADON function, key in ADON and press the XMIT key.

The ADON function request screen is shown in Figure 6–11:

\* FUNCTIONLADON] \* \*\*\*\*\*\* [ ENTER REQUESTED INFORMATION ] ADD (2) AFTER (1) (1) ORIGINAL REPORT (4)) : '0' - '999' OR '-' REPORT NO. TYPE < b > : 'A' - 'I' (WHEN REPORT NO. IS '-', YOU CAN OMIT TYPE) (2) ADDITIONAL REPORT : '0' - '999' REPORT NO. (1\_) TYPE (b) : 'A' - 'I' \_\_\_\_ \_\_\_\_\_ [ ENTER NEW FUNCTION REQUEST ] < 🛛 FUNCTION \_ > PARAMETER S330 \_ > ۲

NOTES:

- 1. Specify the RID number and type for both the original (old) and the additional report.
- 2. Key in a minus sign (-) in the report number field and leave the type field blank when the report or result displayed on the screen is the original report.
- 3. You cannot use a minus sign (-) to specify the additional report.

Figure 6-11. ADON Function Request Screen

In Figure 6–11, the original report is 4B, and the additional report is 1B. When you press the XMIT key, a new result appears on the screen. The result consists of report 4B followed by the data of report 1B; the header of report 1B is omitted.

This is a temporary result. Unless you duplicate it (DUPLICATE REPORT) or use it as a replacement (REPLACE), it is eliminated from the data base when the screen is erased. You can examine the added data by rolling up the screen.

The fast access format for the ADON function is:

ADON r1t1,r2t2

where:

r1t1

Is the original report specification.

## r2t2

Is the additional report specification.

r1

Is the RID number. (Specify - for a displayed report or result.)

t1

Is the type. (Omit if you specify - RID.)

r2

Is the RID number.

t2

Is the type.

## Example:

To add report 1B to 4B, key in ADON 4B,1B. To add report 1B to a report or result on display, key in ADON -,1B.

# 6.3.5. DELETE REPORT Function (DR)

The DELETE REPORT function removes a report from the MAPPER 80 data base.

To delete a report, display the report and key in DR. Your user id must be the same as the user id of the person who created or last updated the report, i.e., the user id on line 1.

_														,	
	LINE	h dr 🛛	F	(The	RIN	5	ዘፑጥኦ		ні р	CHRN	HID	TNA	PSWDA		•
		F 92//	\ <u>7</u>		10.47.1	50 TVD	G-B	חזמ	-002	93/04	:/20 11		1.0400	AQ TINES	
			2002	10 10	DDUDUC	00 11F	6-0 24110		-003	03/00	<i>J/ L3</i> 01	UUL	``	TO LINED	·
	* 57	CURI CTATIIC	DV DV	11 <u>C</u> DD	PRODUC	SEDIN	000	nuc	ODDED	CHET	PPODIC	PPODIC	CHID		
	+CD	DIAIUS.	. DI. TN	. FT	INDE	NUMBED	. FRO	ST.	NIINDD	CODE	DIAN	ACTUAL	DATE	ADED COD	•
	÷	DALL				. NUMBER		51.	AUNDR.		FLAN	ACTUAL	. DATE		•
	TD '	741224	10	י זם י	CKBOKI	126767			01200	AMCO	741223	741224			•
	10	741225	re	1017	CKDOAL	430707			04303	ANCO	741223	741224			
	10 1	741220	re		CKBOXI	430/00			04350	TNOD	741223	741220			
		750110	LD r a		ACKBUAZ	63/0/1			04303	1NIK	/41210	/41219			
	OR .	750110	10		ACKBOX4	675201			94/04	FEDG	750121				
		730110			ACKBOAS	0/0401			3/441	L L D S	750131	741 222			
		741222	LD	DLA	ACKBUAS	/3/384			64040	AMCU	741222	741222	741000	00720	
	SH	/41203	LS	BLA	ACKBOXU	/4632/			54237	FED2	741201	/41202	/41203	58/38	
	SH	/41ZUZ	LS	BLA	ACKBOX6	368061			54438	FLUS	/41201	/41201	/41202	56937	
	SH	/41209	LS	BLA	ACKBOX6	1//344			54434	DICO	741207	741208	741209	20230	
	SH	/41203	LS	BLA	ACKBOX6	/8536/			52833	AKCU	/41201	/41202	/41203	58934	
	IP 1	/41216	LS.	BL	ACKBOXE	976281			89381	INTR	/41215	/41216			
	OR	741210	LS	BLA	ACKBOX7				99842	1 LUS					
	OR	/4122/	LS	BL	ACKBOX /	CCE 401			99725	INTR	750100				
	50	801061	LS	BL	ACKBOX /	565481			9/041	r EDS	100122	743007			
	112	/4122/	LS	BL1	ACKBOX7	/33597			84351	АПСО	/4122/	/4122/		00503	
	SH	741202	LS	RL	ACKBOX7	/44627			44232	INTR	741201	741201	741202	58531	
	IP	741215	LS	RU	ACKBOX7	933581			84381	FEDS	741215	741515			
	OR '	741230	LS	BL	ACKBOX8				92788	FEDS					
É															

The next screen (Figure 6-12) is the DELETE REPORT function request screen. Key in the RID number and form type, and press the XMIT key.

**************************************
[ ENTER REQUESTED INFORMATION] (DESIGNATE REPORT WHICH YOU DISPLAYED ON SCREEN) REPORT NO. (3) : '1' - '999' (CANNOT DESIGNATE '-')
TYPE (b) : 'A' - 'I'
[ ENTER NEW FUNCTION REQUEST ] FUNCTION < > PARAMETER < > S350



The MAPPER 80 system compares your user id with the user id in line 1 of the report. If they are the same, the report is deleted; otherwise, this error message is displayed:

(Error 686) SIGN ON User Identification Name and report User Identification Name are different

When this message appears, perform an update operation (update line) before deleting the report.

To see if the report has been deleted, try to display the deleted report. If the report is deleted, the following message appears on your screen:

><ERR 158> (THE RID DOESN'T EXIST)

#### 6.3.6. DELETE RESULTS Function (DEL)

The DELETE RESULTS function deletes update result lines from the original report. The SEARCH UPDATE (SU) or MATCH UPDATE (MAU) functions produce an update result.

To delete result lines, enter:

DEL

If the report has an update password, enter:

DEL passwd

where:

passwd

Is a 1- to 6-character alphanumeric password.

For example, perform a SEARCH UPDATE (7.6) on the original report (4B) to locate all lines that are blank in the Serial Number field. The update result of the SEARCH UPDATE displays all lines that are blank in the Serial Number field. To delete these lines from report 4B, enter DEL or DEL passwd and press the XMIT key.

You can use the following functions to modify an update result before executing the DELETE RESULTS (DEL) function: ADD LINE, ADON, CHANGE, DELETE LINE, DUPLICATE LINE, FIND, MATCH, SEARCH, SOE UPDATE, SORT, and TOTALIZE.

When you executing the DELETE RESULTS function using the unmodified update result, all lines in the update result are deleted from the original report. However, if you delete lines from the update result, they are not deleted from the original report. Any other modifications made to the update result are not made to the original report when you execute the DELETE RESULTS function.

## 6.3.7. UPDATE RESULTS Function (UPD)

The UPDATE RESULTS function replaces lines in the original report with the update result lines produced by the SEARCH UPDATE (SU) or MATCH UPDATE (MAU) function.

To update a report, enter:

UPD

If the report has an update password, enter:

UPD passwd

where:

passwd

Is a 1- to 6-character alphanumeric password.

For example, perform a SEARCH UPDATE (7.6) on the original report report (4B) to locate all lines that are blank in the Serial Number field. The update result displays all lines that are blank in the Serial Number field. To enter serial numbers for some or all of the lines that currently do not have serial numbers, use the SOE UPDATE function. When you make the appropriate changes to the displayed update result, press the XMIT key. The next display shows the original update result modified by your changes. You can now update report 4B with these modified update result lines by entering UPD or UPD passwd and pressing the XMIT key.

You can use the following functions to modify an update result before executing the UPDATE RESULTS function: ADD LINE, ADON, CHANGE, DELETE LINE, DUPLICATE LINE, FIND, MATCH, SEARCH, SOE UPDATE, SORT, and TOTALIZE.

When you execute the UPDATE RESULTS function, changes you made to the update result are made to the original report. However, lines that you delete from the update result have no effect on the original report. In addition, lines that you add to the update result are added to the end of the original report.



# 7. Reference Functions

## 7.1. INDEX FUNCTION (I)

The INDEX function displays a number of lines from all reports in a form type. This function is especially useful when you want to see which reports are in a form type.

To call the INDEX function, key in I and press the XMIT key. Figure 7–1 shows the INDEX function request screen:

\*\*\*\*\*\* \* FUNCTIONCI ] \* \*\*\*\* ي ب [ ENTER REQUESTTED INFORMATION ] (b) : 'A' - 'I' TYPE (5\_) NO. OF LINE : '1' - '999' : 'H' = HEADER OF FIRST REPORT ONLY HEADER < 🛛 > DISPLAYED [ ENTER NEW FUNCTION REQUEST ] FUNCTION < \_\_\_\_ > PARAMETER S430 < >

NOTES:

- 1. Key in the type.
- 2. Key in the number of lines to display (1-999).
- 3. Key in H when you want to eliminate the headings after the first report.

Figure 7–1. INDEX Function Request Screen

The INDEX function displays:

- The number of active RIDs in the form type
- The total number of lines in the form type
- From 1 to 999 lines from each report in the form type
- The number of lines in each report

The following screen is a display from the INDEX function without using the H option. Note that five lines from each report are displayed. Roll through the result to view the entire index.

SHFT♭ PSWD PRESULT >> LINE 1 FMT⊳ RLÞ HLD CHR▶ HLD LN♭ .DATE 83/06/29 11:10:56 TYPE=B RID= 82/08/24 JDOE 22 LINES> < 126 TOTAL LINES INDEX COMPLETED 3 ACTIVE RID(S) WITH .DATE 83/06/10 16:30:46 TYPE=B RID=001 82/12/23 JDOE . <<< CORPORATE PRODUCTION STATUS >>> ۲ 30 LINES> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER.COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. . DATE 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JD0E < 48 LINES> . <<< CORPORATE PRODUCTION STATUS >>> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. .DATE 83/06/29 10:51:41 TYPE=B RID=004 83/06/29 JDOE . <<< CORPORATE PRODUCTION STATUS >>> 48 LINES> < \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. ..... END REPORT ..... 

The next screen shows the results of using the INDEX function with the H option:

PSWD▶ <sup>P</sup>RESULT<sup>¶</sup>♥ LINEÞ 1 **FMT**b RL⊅ SHFT⊳ HLD CHR. HLD LN≯ . DATE 83/06/29 11:36:20 TYPE=B RID= 82/08/24 JDOE 26 LINES> < INDEX COMPLETED 3 ACTIVE RID(S) WITH 126 TOTAL LINES DATE 83/06/10 16:30:46 TYPE=B RID=001 82/12/23 JDOE . <<< CORPORATE PRODUCTION STATUS >>> 30 LINES> ۲ \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*== ====== \*XX STATUS CODE: OR = ORDERED, SC = SCHEDULED, IP = IN PROCESS, SH = SHIPPED XXXXXX STATUS DATE (YYMMDD) \* XX INITIAL OF PERSON REPORTING STATUS \* XXXXXXXX PRODUCT TYPE NUMBER \* .DATE 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JDOE 48 LINES> ٠ IP 741224 LS BLACKBOX1 436767 IP 741225 LS BLACKBOX1 436768 84389 AMCO 741223 741224 84390 AMCO 741223 741225 IP 741219 LS BLACKBOX2 637071 84353 INTR 741218 741219 OR 750110 LS BLACKBOX4 94754 ARCO .DATE 83/06/29 10:51:41 TYPE=B RID=004 83/06/29 JDOE 48 LINES> ۲ IP 741224 LS BLACKBOX1 436767 IP 741225 LS BLACKBOX1 436768 84389 AMCO 741223 741224 84390 AMCO 741223 741225 IP 741219 LS BLACKBOX2 637071 84353 INTR 741218 741219

#### 7.2. FIND FUNCTION (F)

The FIND function searches for the first occurrence of specified data in a report or form type. When this function finds data, it displays the line containing the data and subsequent lines in the report. This process is similar to displaying a report and rolling it up to a specific item.

To call the FIND function, key in F and press the XMIT key. Figure 7–2 shows the FIND function request screen.



	* FUNCT ****	I O N [ F	******** ] * *****	
C ENTER REQUEST	ED INFORMATI	ON J		
REPORT NO. T Y P E Format	< <u>2</u> > < <u>b</u> > < <u>2</u> >	: '0' - ' NO. ALL : 'A' - ' : '1' - '	999'OR '-' (IF YOU OMI RIDS WILL BE PROCESSEI I' (WHEN REPORT NO. IS CAN OMIT TYPE) 6'	T REPORT
L ENTER NEW Function Dadameter	FUNCTION REQ	UEST ]	 、	SAG

#### NOTES:

- 1. To scan one report, enter the number of the report after RID and the form type after TYPE.
- 2. To scan all reports in a form type, leave the RID field blank.
- 3. To scan a result, enter a minus sign (-) after RID.
- 4. Leave the FORMAT field blank, unless you want a format other than basic.

Figure 7–2. FIND Function Request Screen

The fast access format for the FIND function is:

```
 F \left\{ \begin{matrix} rt[,f] \\ t[,f] \\ -[,f] \end{matrix} \right\}
```

where:

r

```
Is the RID number.
```

.

Is the type.

f

t

Is the format number.

rt[,f]

Designates one report.

t[,f]

Indicates RID number omitted; all reports handled.

-[,f]

Specifies the report or result on the screen.

Example:

To find the data in RID2, type b and key in F 2b.

To display the function mask for the form type, fill in the function request screen and press the XMIT key.

Enter the data you want to find under the appropriate field headers and asterisks. You can specify data in one or more fields. If you want to find several entries in the same field, make these entries below the mask. Multiple parameter entries for the FIND function are identical to those used with the SEARCH function (see 7.5).

The following example finds data lines containing either INTR or DICO in the CUST CODE field. Both are tab type lines; thus, the function scans only tab type lines in the form type. To find asterisk type lines, key in an asterisk (\*) in the first column below the mask.

The function displays the first line of the report (line 1) as a hold line, the data line with the first find, and the data lines immediately following it in the report.

																		_ ,pum
1972 1-11	LINE	.⊳ 8∅	Fł	ſT⊳	RL⊳		SHFT⊳		HLD	CHR⊳		HLD	LNÞ	1	PSWD.		Þ	
	. DAT	E 83/	06/1	0	16:30:0	09	TYPE=B	RID=0	02	82/08	3/11	JI	OOE				-	i li
	IP	741219	LS	BL/	ACKBOX2	631	7071	84	353	INTR	741	218	741	219				
	OR	750110	LS	BL	ACKBOX4			94	754	ARCO								1
	SC	750110	LS	BL	ACKBOX5	675	5281	97	441	FEDS	750	131						
	IP	741222	LS	BLA	ACKBOX5	73	7582	84	040	AMCO	741	222	741	222				
	SH	741203	LS	BLI	ACKBOXO	74(	5327	54	237	FEDS	741	201	741	202	741203	S8738		
	SH	741202	LS	BLI	ACKBOX6	368	8061	54	438	FEDS	741	201	741	201	741202	S6937		
	SH	741209	LS	BLI	ACKBOX6	77.	7324	54	232	DICO	741	207	741	208	741209	S8538		list li
	SH	741203	LS	BL	ACKBOX6	78	5367	52	833	ARCO	741	201	741	202	741203	S8934		
	IP	741216	LS	BLI	ACKBOX6	926	5581	89	381	INTR	741	215	741	216				
	OR	741210	LS	BL	ACKBOX7			99	842	FEDS								
	OR	741227	LS	BLI	ACKBOX7			99	725	INTR								
	·SC	750108	LS	BLI	ACKBOX7	66	5481	97	541	FEDS	750	122						unain.
	IP	741227	LS	BLI	ACKBOX7	73:	3597	84	351	AMCO	741	227	741	227				
	SH	741202	LS	BL	ACKBOX7	744	4627	44	232	INTR	741	201	741	201	741202	S8531		(IIIR)
	IP	741215	LS	BLA	ACKBOX7	93:	3581	84	381	FEDS	741	215	741	515				
	OR	741230		BLA	ACKBOX8	~ ~ ~		92	788	FEDS								
1947. 2700-	21	741203	LS	BLI	ACKBUX8	94:	5321	/4	272	FEDS	741	201	741	202	741203	58518		11111
		/4121/		BL/	ACKBOX9			98	/55	Anco								
	אט	741210	10	BL/	ACKBUX9			98	782	USSC								1000
		74121/	LS		ACKBUX9	530	5773	84	181	USSC	/41	215	/41	217				
		741220			ACKBUX9	50.	3/0/	82	381	r LDS	/41	215	741	210				
	112	/41230	LD	DL	ACKDUX9	03.	320/	84	201	0550	/41	230	/41	230				
																		=

If you want to continue the find process, enter RSM or press the F1 function key.

The following options are available for the FIND and SEARCH functions.

- A Processes all line types. (See 7.5.5.2.)
- R Scans selected reports. (See 7.5.5.5.)
- a Finds spaces. (See 7.5.5.1.)
- / Finds slash as data. (See 7.5.5.6.)

## 7.3. RESUME FUNCTION (RSM)

The RESUME function continues executing a function that was interrupted by a display.

To resume a function, enter RSM.

LINE	E⊳rsm⊿	FP	ſT⊳	RL⊳	SHFT⊳	HLD	CHR⊳	HLD	LNI	> 1	PSWD⊧		Þ
. DA'I	re 83/(	06/1	10	16:30:0	09 TYPE=B	RID=002	82/08	3/11 JI	DOE				
IP	741219	LS	BLA	ACKBOX2	637071	84353	INTR	741218	74]	219			
OR	750110	LS	BLA	ACKBOX4		94754	ARCO						
SC	750110	LS	BLA	ACKBOX5	675281	97441	FEDS	750131					
IP	741222	LS	BLA	ACKBOX5	737582	84040	AMCO	741222	74	222			
SH	741203	LS	BLA	ACKBOXO	746327	54237	FEDS	741201	74	202	741203	S8738	
SH	741202	LS	BLA	ACKBOX6	368061	54438	FEDS	741201	74	201	741202	S6937	
SH	741209	LS	BLA	ACKBOX6	777324	54232	DICO	741207	74	208	741209	S8538	
SH	741203	LS	BLA	ACKBOX6	785367	52833	ARCO	741201	74	202	741203	S8934	
112	741216	LS	BLA	ACKBOX6	926581	89381	INTR	741215	74	216			
OR	741210	LS	BLA	ACKBOX7		99842	FEDS						
OR	741227	LS	BLA	ACKBOX7		99725	INTR						
SC	750108	LS	BL	ACKBOX7	665481	97541	FEDS	750122	<b>.</b>				
IP	741227	LS	BLA	ACKBOX7	733597	84351	AMCO	741227	74	1227			
SH	741202	LS	BLA	ACKBOX7	744627	44232	INTR	741201	74	1201	741202	S8531	
IP	741215	LS	BLA	ACKBOX7	933581	84381	FEDS	741215	74	1515			
OR	741230	LS	BLA	ACKBOX8		92788	FEDS						
SH	741203	LS	BLA	ACKBOX8	945327	74272	FEDS	741201	74	202	741203	S8518	
OR	741217	LS	BL	ACKBOX9		98755	AMCO						
OR	741210	LS	BL	ACKBOX9	50000	98782	USSC		-				
IP	741217	LS	BLA	ACKBOX9	538993	84781	USSC	741215	74	1217			
	741216	LS		ACKBOX9	563/8/	82381	r LDS	741215	74.	1216			
IP	/41230	LS	BLł	ACKB0X9	633287	84361	USSC	741230	74.	1230			

If you were executing the FIND function, the MAPPER 80 system resumes processing the function on the line following the last line of the screen (see 7.2). Note any other occurrences of the find on the screen because the FIND function does not stop on those occurrences. The following screen is the second screen containing a found line:

LINE⊳ 39⊠ FMT⊳ RLÞ -SHFT⊳ HLD CHR» HLD LN♭ 1 PSWD⊧ 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JDOE . DATE IP 741230 LS GREENBOX4 974085 OR 741210 LS GREENBOX5 84581 INTR 741228 741230 99753 DICO SC 750110 LS GREENBOX6 674481 95964 FEDS 750130 SH 741206 LS GREENBOX7 669624 OR 741228 LS GREENBOX8 54682 AMCO 741201 741205 741206 S8553 94525 FEDS SC 750105 LS GREENBOX8 677481 97929 INTR 750105 IP 741225 LS GREENBOX8 750933 86381 FEDS 741225 741225 SC 750110 LS GREENBOX8 975481 99943 AMCO 750110 OR 740310 LS GREENBOX9 99951 AMCO .... END REPORT . . . . .

To see all occurrences of the lines you are searching, repeat the RESUME function or press the F1 key until there are no finds. The following message indicates there are no further finds:

<ERR 717> (CORRESPONDING DATA DOESN'T EXIST)

## 7.4. BINARY FIND FUNCTION (BF)

The BINARY FIND function is similar to the FIND function. It finds the first occurrence of specified data in a report and displays the line containing the data and subsequent lines of the report. It is more efficient than the conventional FIND when a large number of lines must be scanned. However, you can use this function only when the fields containing the specified data are sorted (7.10) in ascending order, and you cannot use it on a result.

In the actual find process, the BF function samples the data at midpoint in the report and determines whether the specified data is before or after that point. It then samples again at midpoint in the remaining part, and continues dividing and sampling until it finds the item.

To call the BINARY FIND function, key in BF and press the XMIT Key. Figure 7–3 shows the BINARY FIND function request screen:

\*\*\*\*\* \* FUNCTION(BF ] \* \*\*\*\*\*\* [ ENTER REQUESTED INFORMATION ] (2\_) REPORT NO. : '0' - '999' OR '-' TYPE < b > : 'A' - 'I' (WHEN REPORT NO. IS '-', YOU CAN OMIT TYPE) : '1' - '6' FORMAT < 🛛 > [ ENTER NEW FUNCTION REQUEST ] FUNCTION < \_ \_ > PARAMETER S420 >

NOTE:

Leave the FORMAT field blank unless you want a format other than basic.

Figure 7–3. BINARY FIND Function Request Screen

The fast access format for the BINARY FIND function is:

BF {rt[,f]
 t[,f]
}

where:

r

t

Is the RID number.

Is the type.

f

Is the format.

Transmit the screen in Figure 7–3 to display the function mask for report 2B. Use this mask to specify the data you want to search. In the following screen, a BINARY FIND function finds lines with BLACKBOX4 in the PRODUCT TYPE field:

The next screen shows the result of the BINARY FIND function; it is the same display as for the FIND function:

LINE 10 FMT RL SHFT:	▶ HLD CHR♭ HLD LN♭ 1 PSWD♭ ▶
.DATE 83/06/29 12:58:22 TYPE=B	RID=002 83/06/29 JDOE
OR 750110 LS BLACKBOX4	94754 ARCO
SC 750110 LS BLACKBOX5 675281	97441 FEDS 750131
IP 741222 LS BLACKBOX5 737582	84040 AMCO 741222 741222
SH 741202 LS BLACKBOX6 368061	54438 FEDS 741201 741201 741202 56937
SH 741209 LS BLACKBOX6 777324	54232 DICO 741207 741208 741209 58538
SH 741203 LS BLACKBOX6 785367	52833 ARCO 741201 741202 741203 58934
IP 741216 LS BLACKBOX6 926581	89381 INTR 741215 741216
OR 741210 LS BLACKBOX7	99842 FEDS
OR 741227 LS BLACKBOX7	99725 INTR
SC 750108 LS BLACKBOX7 665481	97541 FEDS 750122
IP 741227 LS BLACKBOX7 733597	84351 AMCO 741227 741227
SH 741202 LS BLACKBOX7 744627	44232 INTR 741201 741201 741202 58531
IP 741215 LS BLACKBOX7 933581	84381 FEDS 741215 741515
OR 741230 LS BLACKBOX8	92788 FEDS
SH 741203 LS BLACKBOX8 945327	74272 FEDS 741201 741202 741203 58518
OR 741217 LS BLACKBOX9	98755 AMCO
OR 741210 LS BLACKBOX9	98782 USSC
IP 741217 LS BLACKBOX9 538993	84/81 USSC /41215 /4121/
IP 741216 LS BLACKBOX9 563787	82381 FEDS /41215 /41216
IP 741230 LS BLACKBOX9 633287	84351 0550 /41230 /41230
SH 741204 LS BLACKBOX9 714577	64231 AMCU /41201 /41203 /41204 58531
SC 750110 LS BLACKBOX9 735481	97242 USSC 750116

#### NOTE:

When you sort (in ascending order) more than one field for the BINARY FIND, the priority of the key fields decreases from left to right. If you do not sort the fields, the following error message is displayed:

< ERROR - 718 > (Not sorted)

You can also use the following options:

- Q Pertinent data is found one time only.
- a Empty fields are located.
- / Slashes are contained in the located data.

#### 7.5. SEARCH FUNCTION (S)

The SEARCH function scans a report, result, or an entire form type for all data lines containing characters specified in a function mask. The FIND function displays only the first occurrence of the specified characters, but the SEARCH function displays all occurrences, and the display is a result.

To call this function, key in S and press the XMIT key. Figure 7–4 shows the SEARCH function request screen:

**************************************
[ ENTER REQUESTED INFORMATION ]
REPORT NO. <> : '0' - '999' OR '-' (IF YOU OMIT REPORT NO. ALL RIDS WILL BE PROCESSED) TYPE < _> : 'A' - 'I' (WHEN REPORT NO. IS '-', YOU CAN OMIT TYPE) FORMAT < _> : '1' - '6'
[ ENTER NEW FUNCTION REQUEST ] FUNCTION < > PARAMETER < > S460

Figure 7–4. SEARCH Function Request Screen (Part 1 of 2)

NOTES:

- 1 To search one report, enter the RID number and type of the report.
- 2. To search all reports in a form type, leave the RID field blank.
- 3. To search the report or result displayed on the screen, enter a minus sign (-) after RID.
- 4. Leave the FORMAT field blank, unless you want a format other than basic.

Figure 7-4. SEARCH Function Request Screen (Part 2 of 2)

The fast access format for the SEARCH function is:

 $\begin{cases} rt[,f] \\ -[,f] \\ t[,f] \end{cases}$ 

where:

r

t

f

Is the RID number.

Is the type.

Is the format.

-

Is the report or result on display.

rt[,f]

Specifies a report not on display.

-[,f]

Specifies a report or result on display.

t[,f]

When you omit the report number, all reports within the type are searched. However, when you specify the R option, only the specified reports are searched.

Complete the previous screen and press the XMIT key to display the function mask. This mask displays the format headers (basic, unless otherwise specified) for the report or form type, and a line of asterisks denoting the field sizes and positions. Enter the characters you want to find under these asterisks.

In the following example, you search report 2B for all shipped (SH) items under the ST CD headers:

The SEARCH function searches the report or form type and displays the result in the next screen. The screen contains the data lines found, the number of lines found, and the number of lines searched, followed by the line of asterisks for the format and the character string searched.

PSWD▶ PRESULT >> LINEÞ 10 SHFT⊳ HLD CHR. HLD LNÞ **FMT**<sub>b</sub> RL > .DATE 83/06/28 15:04:53 TYPE=B RID=002 83/06/28 JDOE 20 LINES> ۲ 8 LINES FOUND OUT OF 42 LINES \*SH 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JDOE CORPORATE PRODUCTION STATUS >>> . DATE <<< \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*== . ====== .......... SH 741203 LS BLACKBOX0 746327 54237 FEDS 741201 741202 741203 S8738 SH 741202 LS BLACKBOX6 368061 54438 FEDS 741201 741201 741202 S6937 741209 LS BLACKBOX6 777324 741203 LS BLACKBOX6 785367 54232 DICO 741207 741208 741209 \$8538 SH 741203 741201 741202 SH 52833 ARCO S8934 SH 741202 LS BLACKBOX7 44232 INTR 741201 741201 741202 744627 S8531 SH 741203 LS BLACKBOX8 945327 74272 FEDS 741201 741202 741203 S8518 SH 741204 LS BLACKBOX9 714577 64231 AMCO 741201 741203 741204 58531 54682 AMCO 741201 741205 741206 S8553 SH 741206 LS GREENBOX7 669624 .... END REPORT

You can roll through the result to examine the found lines. The search result exists only as long as it is displayed on the screen; it is not part of the original report data. You can process the result with other functions, specifying it as RID –.

A search result lists line types in the hierarchy: tab, asterisk, and period type lines. The result lists asterisk (\*) and period (.) lines as trailer lines when they follow tab lines in the report.

## 7.5.1. Partial Field Mask

To specify an incomplete parameter, delete the asterisk in the mask for each character position you want to ignore in the search. This limits the field size and affects all search parameters entered under that field. Thus, to search for all lines with BLACKBOX product types, delete the last asterisk under PRODUCT TYPE, as shown in the next screen:

You can also specify an incomplete parameter by keying in a slash in the unused trailing positions. Thus, to search for all lines with BLACKBOX product types, key in BLACKBOX/:

Transmit the partial field masks in either of the two previous screens to produce the result in the next screen:

SHFTD PSWD> "RESULT" > LINEÞ 1 FMT⊳ RI.Þ HLD CHR> HLD LN⊳ .DATE 83/06/28 15:07:00 TYPE=B RID=002 83/06/28 JDOE 39 LINES> ٢ 27 LINES FOUND OUT OF 42 LINES BLACKBOX/ .DATE 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JDOE <<< CORPORATE PRODUCTION STATUS >>> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER.COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*== IP 741224 LS BLACKBOX1 436767 IP 741225 LS BLACKBOX1 436768 84389 AMCO 741223 741224 84390 AMCO 741223 741225 84353 INTR 741218 741219 94754 ARCO 97441 FEDS 750131 IP 741219 LS BLACKBOX2 637071 OR 750110 LS BLACKBOX4 97441 FEDS 750131 84040 AMCO 741222 741222 750110 LS BLACKBOX5 675281 741222 LS BLACKBOX5 737582 SC IP 54237 FEDS 741201 741202 741203 S8738 54438 FEDS 741201 741201 741202 S6937 54232 DICO 741207 741208 741209 S8538 52833 ARCO 741201 741202 741203 S8934 89381 INTR 741215 741216 SH 741203 LS BLACKBOX0 746327 SH 741202 LS BLACKBOX6 368061 SH 741209 LS BLACKBOX6 777324 SH 741203 LS BLACKBOX6 785367 IP 741216 LS BLACKBOX6 926581 OR 741210 LS BLACKBOX7 99842 FEDS

NOTE:

To search for the slash (/) as data, use the / option (7.5.5.6).

#### 7.5.2. Range Search

To search a range of characters, key in the parameter of the range's lowest end in the first line under the mask. Then, press the TAB key to move the cursor to the next line and key in an R in column 1 and the parameter for the range's highest end in the appropriate field.

Use the following example to search for BLACKBOXs with serial numbers ranging from 100000 to 700000; notice that a partial field mask is used in the PRODUCT TYPE field:

\*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*\* \*\*\*\*\*\* \*\* \*\*\*\*\* blackbox 100000 700000 r blackbox

The result in the next screen shows that 9 out of 42 lines contain items satisfying the range requirements:

📄 LINEÞ 1 🗹 FMTÞ RLÞ SHFTÞ HLI	CHRD HLD LND PSWDD "RESULT D
.DATE 83/06/28 15:09:41 TYPE=B RID=002	83/06/28 JDOE < 23 LINES>
. 9 LINES FOUND OUT OF 42 LINES	
*** ***** ** ******* ****** *****	* **** ****** ****** *****
* BLACKBOX 100000	
. THRU	
* BLACKBOX 700000	
•••	
.DATE 83/06/10 16:30:09 TYPE=B RID=002	82/08/11 JDOE
. <<< CORPORATE PRODUCTION STATUS >>>	
*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDE	R.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC.
*CD. DATE .IN. TYPE .NUMBER. COST .NUMBI	R.CODE. PLAN .ACTUAL. DATE .ORDER.COD.
	· · · · · · · · · · · · · · · · · · ·
IP 741224 LS BLACKBUX1 436767 84383	J AMCU /41223 /41224
IF 741223 LD DLACKDUAI 430700 04390 TO 741330 FC DIACKDOV3 637071 04350	) ANCU /41223 /41220 ) INTE 741310 741310
= 1 + 1 + 1 + 2 + 3 + 2 + 3 + 2 + 3 + 2 + 3 + 2 + 3 + 2 + 3 + 2 + 3 + 2 + 3 + 3	J ININ /41410 /41413   FEDG 750131
= 50.750110 E5 BERCREORS 075201 57441SH 741202 IS BEACKBOYS 358061 5443	2 FEDS 750151 2 FEDS 741201 741201 741202 86027
	5 FEDS 741201 741202 30337
= 10.730100 LD DERCKDOR7 000401 9704. TP 741217 IS BLACKBOX9 538993 8478	1 1200 700122
IP 741216 LS BLACKBOX9 563787 8238	FEDS 741215 741216
IP 741230 LS BLACKBOX9 633287 8436	USSC 741230 741230
END REPORT	

## 7.5.3. Search of Previous Result

To search the previous result using the fast access method, enter S - in line 0, as shown in the following screen:

LINED S - ØFMTD RL♭ SHFT⊳ PSWD> ""RESULT" >> HLD CHR♭ HLD LN⊳ .DATE 83/06/28 15:09:41 TYPE=B RID=002 83/06/28 JDOE 23 LINES> < 42 LINES 9 LINES FOUND OUT OF \*\*\* \*\*\*\*\*\* \*\* \*\*\*\*\*\*\* \* BLACKBOX 100000 . THRU BLACKBOX 700000 .DATE 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JDOE . <<< CORPORATE PRODUCTION STATUS >>> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*== ====== \_ \_ \_ \_ \_ \_ \_ IP 741224 LS BLACKBOX1 436767 IP 741225 LS BLACKBOX1 436768 84389 AMCO 741223 741224 84390 AMCO 741223 741225 84353 INTR 741218 741219 IP 741219 LS BLACKBOX2 637071 SC 750110 LS BLACKBOX5 675281 97441 FEDS 750131 SH 741202 LS BLACKBOX6 368061 54438 FEDS 741201 741201 741202 S6937 SC 750108 LS BLACKBOX7 665481 97541 FEDS 750122 IP 741217 LS BLACKBOX9 538993 IP 741216 LS BLACKBOX9 563787 84781 USSC 741215 741217 82381 FEDS 741215 741216 IP 741230 LS BLACKBOX9 633287 84361 USSC 741230 741230 ..... END REPORT .....

Press the XMIT key to display the function mask, and then key in the new search parameters:

*ST.STATUS.BY. PRODUCT	.SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC.SHIP .SHIP .SPC.
*CD. DATE .IN. TYPE	.NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD.
*** ****** ** ************************	****** ****** ***** **** ***** ****** ****

The SEARCH function scans the previous search result and displays a new result:

PSWD PRESULT >> LINE 10 HLD LN≯ **FMTb** RLD SHFT♭ HLD CHR> .DATE 83/06/28 15:13:03 TYPE=B RID=002 83/06/28 JDOE 17 LINES> < 3 LINES FOUND OUT OF 9 LINES \*\*\* \*\*\*\*\* \*\* \*\*\*\*\*\* BLACKBOX 100000 \* . THRU BLACKBOX 500000 \* \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. ----IP 741224 LS BLACKBOX1 436767 IP 741225 LS BLACKBOX1 436768 SH 741202 LS BLACKBOX6 368061 84389 AMCO 741223 741224 84390 AMCO 741223 741225 54438 FEDS 741201 741201 741202 S6937 ..... END REPORT

## 7.5.4. Multiple Parameters

You can specify multiple search parameters using a maximum of 10 lines. If a data line contains one or more of the search criteria, it is displayed in the result.

The following example searches for data lines containing OR or SC status codes, or serial numbers ranging from 100000 to 500000, or BLACKBOX5 product types:

This function scans the report and displays the following result:

SHFT> LINE 10 **FMT** RLÞ HLD CHR<sub>b</sub> HLD LN> PSWD> "RESULT" >> .DATE 83/06/28 15:15:54 TYPE=B RID=002 83/06/28 JDOE 41 LINES> < 24 LINES FOUND OUT OF 42 LINES \*OR \*SC 100000 \* . THRU \* 500000 \* BLACKBOX5 .DATE 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JDOE . <<< CORPORATE PRODUCTION STATUS >>> \*ST.STATUS.BY. PRODUCT .SERIAL PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*==. 741224 LS BLACKBOX1 436767 84389 AMCO 741223 741224 IP IP 741225 LS BLACKBOX1 436768 84390 AMCO 741223 741225 94754 ARCO OR 750110 LS BLACKBOX4 750110 LS BLACKBOX5 675281 97441 FEDS 750131 SC 84040 AMCO 741222 741222 IP 741222 LS BLACKBOX5 737582 SH 741202 LS BLACKBOX6 368061 54438 FEDS 741201 741201 741202 S6937 OR 741210 LS BLACKBOX7 99842 FEDS 

If you search an entire form type, the result displays finds in multiple reports in sequence, with the headers attached from each report. If a report contains no lines that satisfy the search parameters, that report is skipped in the result.

You can specify multiple parameters on the same line under different headings.

The following screen searches a report for data lines that contain both SC and BLACKBOX5:

This is the result:

PSWD> "RESULT">> LINEÞ 10 **FMT**Þ RL♭ SHFTD **HLD CHR**▶ HLD LN . .DATE 83/06/28 15:17:59 TYPE=B RID=002 83/06/28 JDOE 13 LINES> ۲ 1 LINES FOUND OUT OF 42 LINES BLACKBOX5 \*SC .DATE 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JDOE . <<< CORPORATE PRODUCTION STATUS >>> . <<< CORPORATE PRODUCTION STATUS >>> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. **\***==. 0X5 675281 97441 FEDS 750131 SC 750110 LS BLACKBOX5 675281

## 7.5.5. Options

You can use the following options with the SEARCH function:

- a Searches for spaces.
- A Processes all line types.
- N Includes all lines that do not meet the search parameters. For example, if you search a column for the letter A using the N option, the result contains all lines *not* having an A in the column.
- D Omits search information lines.
- H Displays only the header of the first report and omits the headers of remaining reports in a multiple report search.
- R Searches a range of reports.
- / Searches for slash as data.
# 7.5.5.1. @ Option – Search for Spaces

Use the @ option to search for spaces. To use this option, key in an at sign (@) in the line above the mask and in the column in the field under the mask where you want to search for spaces. The following example shows how to use this option using report 2B.

. SHIP \*ST. STATUS. BY. PRODUCT . SERIAL. PRODUC. ORDER. CUST. PRODUC. PRODUC. SHIP . SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE . ORDER. COD. \*==. \_\_\_\_\_ --.-----\_ \_ \_ \_ \_ \_ \_ . ===== . === . \*\*\*\*\*\* \*\* \*\*\*\*\*\* ۯ

The following result displays those lines that have spaces in the SERIAL NUMBER field:

LINEÞ 10 **FMT**⊳ RLD SHFT⊳ HLD CHR> HLD LNÞ **PSWD**▶ PRESULT >> 23 LINES> . DATE 83/06/28 15:19:51 TYPE=B RID=002 83/06/28 JDOE ۲ 11 LINES FOUND OUT OF 42 LINES \* 6 .DATE 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JDOE CORPORATE PRODUCTION STATUS <<< >>> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*== 94754 ARCO OR 750110 LS BLACKBOX4 OR 741210 LS BLACKBOX7 99842 FEDS OR 741227 LS BLACKBOX7 99725 INTR OR 741230 LS BLACKBOX8 92788 FEDS OR 741217 LS BLACKBOX9 98755 AMCO 741210 98782 USSC OR LS BLACKBOX9 OR 741210 LS GREENBOX1 96751 FEDS OR 741211 LS GREENBOX4 96652 ARCO OR 741210 LS GREENBOX5 99753 DICO OR 741228 LS GREENBOX8 94525 FEDS OR 740310 LS GREENBOX9 99951 AMCO END REPORT . . . . . . . . . .

You can also use a partial field mask to find spaces in selected columns (7.5.1).

# 7.5.5.2. A Option – Search for All Line Types

The A option searches all line types. The A option is especially useful when reports contain data lines with other characters in the first column, such as, run stream reports with the at sign (@).

Use the A option in the following example to search report 1B for SH items:

The result displays all lines with status code SH:

PPRESULT ▼ > LINE> 12 **FMT** SHFTD HLD CHR. HLD LN . PSWD+ RI.b 83/07/07 10:56:25 TYPE=B RID=001 83/07/07 . DATE JDOE 15 LINES> < 3 LINES FOUND OUT OF 24 LINES . A \*SH .DATE 83/06/29 13:13:28 TYPE=B RID=001 83/06/29 JDOE CORPORATE PRODUCTION STATUS <<< >>> \*ST.STATUS.BY. PRODUCT SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC.SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER.COST .NUMBR.CODE.PLAN .ACTUAL. DATE .ORDER.COD. \*== ....................... ==== SH 750109 LS BLACKBOX1 455660 74536 NASA 750103 750107 750109 S4572 \*SH 750109 LS BLACKBOX1 455661 74536 .SH THAT THE STATUS OF THE ITEM IS SHIPPED ..... END REPORT ..... 74536 NASA 750103 750107 750109 S4572

# 7.5.5.3. N Option – Search for Not Condition

The N option searches for lines that do not meet the search parameters. The following example uses the N option to search report 2B for nonblank items in the SHIP DATE field:

											=
											=
											=
											=
<u>a</u>											=
mn.											=
<b>V</b>											=
400 001	<b>NIG DU</b>	5565110 <b>6</b>	000111	DDDDIID	~~~~	ATT AM	<b>BBAB</b> 114	<b>BB6B</b> <i>H</i> <b>G</b>	<b>A11 1 1</b>	A	=
XST STA	UUS BY	PROBACT	SERIAL	PRODUC	ORDER	CHST		PRODUC	SHID	SHID	spr ≡
		1100001	· CONTRE		· OWDER ·		I NODOC		DHII	.onir .	$DF \cup =$
				~~~~		~~~					~~~ =
- <b>XCD DA</b>	TH: 184	TYPE	MILMERER	COST	NUMBER	CODE	PLAN	ACTINAL	DATE	UBUEB	COD =
						. CODL.	A PRESENT	. noione.		· unuun ·	~~ <i>vvv</i> . =
<b>X22.22</b>											*** =
•	• •		• • • • •	•	•			•			=
ومالوبية ومالير والبريان	بالبينات بالبيابية	والمرواحية وبالمراجعة وبالمرواحية والمراجع	والدوار والدوار والمرار	والمساوية والمساوية والمريطي	address from the other star	- be a beaution of a	- Annalised and the device of a				
<u> </u>	*** **	*******	*****	*****	****	****	******	******	******	****	*** =
											~~~ =
									<u> </u>		=
									4 73		
									CVI		=
											=
											=

The result displays all lines that are not blank in the SHIP DATE field:

LINE 12 **FMT**⊳ RL₽ SHFTD HLD CHRD HLD LNo PSWD> "RESULT" >> .DATE 83/06/28 15:24:08 TYPE=B RID=002 83/06/28 JDOE 20 LINES> 8 LINES FOUND OUT OF 42 LINES . AN \*\*\*\*\* \*\*\*\*\* \*\*\* \*\*\*\*\* a . DATE 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JDOE CORPORATE PRODUCTION STATUS >>> <<< \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. TYPE \*== = = = . . . . . ........... SH 741203 LS BLACKBOX0 746327 54237 FEDS 741201 741202 741203 S8738 SH 741202 LS BLACKBOX6 368061 54438 FEDS 741201 741201 741202 S6937 SH 741209 LS BLACKBOX6 777324 54232 DICO 741207 741208 741209 S8538 SH 741203 LS BLACKBOX6 785367 SH 741202 LS BLACKBOX7 744627 52833 ARCO 741201 741202 741203 \$8934 44232 INTR 741201 741201 741202 S8531 741203 LS BLACKBOX8 945327 74272 FEDS 741201 741202 741203 S8518 SH 64231 AMCO 741201 741203 741204 58531 SH 741204 LS BLACKBOX9 714577 SH 741206 LS GREENBOX7 669624 54682 AMCO 741201 741205 741206 S8553 .... END REPORT .....

7.5.5.4. D and H Options

When you search corresponding multiple reports, the MAPPER 80 software prefaces search results with the following report headers: line 1, the field headers, and the header-divider (\*=) line. The D option omits search information lines (lines found and search paramters). The H option displays a single set of headers and suppresses the display of other report headers after the first report in a multiple search.

The examples in Figures 7–5 through 7–10 search for SH items.

To display the SEARCH function mask, key in S B in the LINE field of line 0.

The D option omits the LINES FOUND message and the parameters specification. The example in Figure 7–5 uses the D option:

Figure 7-5. Using the D Option to Search

Figure 7–6 shows the result:

SHFT⊳ "RESULT" >> LINE 10 **FMT**<sub>P</sub> RL♭ **HLD CHR**▶ HLD LN♭ PSWD⊳ .DATE 83/06/29 13:20:29 TYPE=B RID=001 83/06/29 . <<< CORPORATE PRODUCTION STATUS >>> 43 LINES> JDOF. ۲ \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. SH 750109 LS BLACKBOX1 455660 \*SH 750109 LS BLACKBOX1 455661 74536 NASA 750103 750107 750109 84572 74536 NASA 750103 750107 750109 84572 .THE ABOVE LINE IS AN EXAMPLE ITEM WHICH DENOTES: THAT THE STATUS OF THE ITEM IS SHIPPED THE STATUS WAS REPORTED ON JAN 9, 1975 BY L. S. . SH THE ITEM IS A BLACK BOX TYPE 1, S ITS RELATED ORDER NUMBER IS 74536 SERIAL NUMBER 455661 THE ORDER IS FOR THE CUSTOMER CODED NASA. IT WAS PLANNED TO BE PRODUCED ON JAN 3, 1975 IT WAS ACTUALLY PRODUCED ON JAN 7, 1975 IT WAS SHIPPED ON JAN 9, 1975 ON SHIP ORDER NUMBER S4572 DATE 83/06/29 13:15:36 TYPE=B RID=002 83/06/29 JDOE . <<< CORPORATE PRODUCTION STATUS >>> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER.COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*==. \*\*\*\*\* =====. ===. 54237 FEDS 741201 741202 741203 S8738 54438 FEDS 741201 741201 741202 S6937 SH 741203 LS BLACKBOX0 746327 SH 741202 LS BLACKBOX6 368061

Figure 7-6. Result Screen from D Option

The H option displays only the form type headers of the first report encountered and suppresses the headers of remaining reports in the search. The example in Figure 7-7 uses the H option:

Figure 7-7. Using the H Option

Figure 7–8 shows the result screen:

LINE 10 SHFT⊳ HLD CHR♭ HLD LN♭ PSWD> "RESULT">> **FMT**⊳ RL > 39 LINES> .DATE 83/06/29 13:22:24 TYPE=B RID= 83/06/29 JDOE ۲ 17 LINES FOUND OUT OF 108 LINES . H \*SH .DATE 83/06/29 13:22:24 TYPE=B RID= 83/06/29 JDOE CORPORATE PRODUCTION STATUS **<** < < >>> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC.SHIP .SHIP .SPC. .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. . = = \*== \_\_\_\_\_ 32223 382 74536 NASA 750103 750107 750109 **S4572** 74536 NASA 750103 750107 750109 **S4572** SH 750109 LS BLACKBOX1 455660 \*SH 750109 LS BLACKBOX1 455661 .THE ABOVE LINE IS AN EXAMPLE ITEM WHICH DENOTES: .SH THAT THE STATUS OF THE ITEM IS SHIPPED THE STATUS WAS REPORTED ON JAN 9, 1975 BY L. S. THE ITEM IS A BLACK BOX TYPE 1, SERIAL NUMBER 455661 ITS RELATED ORDER NUMBER IS 74536 •. . THE ORDER IS FOR THE CUSTOMER CODED NASA. IT WAS PLANNED TO BE PRODUCED ON JAN 3, 1975 IT WAS ACTUALLY PRODUCED ON JAN 7, 1975 IT WAS SHIPPED ON JAN 9, 1975 ON SHIP ORDER NUMBER S4572 SH 741203 LS BLACKBOXO 746327 54237 FEDS 741201 74120 54237 FEDS 741201 741202 741203 S8738

Figure 7-8. Result Screen from H Option

The D and H options together produce a result that omits search information lines and displays the form type headers of the first report only. The example in Figure 7–9 uses both the D and H options:



Figure 7–10 shows the result screen:

► S
РС. D.

Figure 7-10. Result Screen from D and H Options

# 7.5.5.5. R Option – Search a Range of Reports

Use the R option to search selected reports instead of one or all reports in a form type.

To use the R option, do not specify a RID in the function request screen. For the fast access method, leave out the report number, e.g., S B. In the line above the function mask, key in R and the report numbers. Separate report numbers with a hyphen.

The following example searches the first and second reports:

The next screen is the result. If a report contains found lines, the result displays both the report header and found lines. Note that only the first header line of RID 2 appears on this screen. Roll to display the remaining headers and lines found in RID 2. The END REPORT line denotes the end of the search result, not the end of the first report searched. When no find occurs for an RID, the headers for that RID do not appear in the result:

LINE⊳ 10 FMT⊳ SHFT⊳ PSWD \* "RESULT" >>> RLD HLD CHR⊳ HLD LN⊳ .DATE 83/06/28 15:45:01 TYPE=B RID= 83/06/28 JDOE 36 LINES> < 9 LINES FOUND OUT OF 66 LINES .R1-2 \*SH .DATE 83/06/10 16:30:46 TYPE=B RID=001 82/12/23 JDOE CORPORATE PRODUCTION STATUS >>> <<< \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*== \*\*\*\*\*. \*\*\* SH 750109 LS BLACKBOX1 455660 \*SH 750109 LS BLACKBOX1 455661 74536 NASA 750103 750107 750109 \$4572 74536 NASA 750103 750107 750109 \$4572 THE ABOVE LINE IS AN EXAMPLE ITEM WHICH DENOTES: .SH THAT THE STATUS OF THE ITEM IS SHIPPED THE STATUS WAS REPORTED ON JAN 9, 1975 BY L. S. THE ITEM IS A BLACK BOX TYPE 1, SERIAL NUMBER 455661 ITS RELATED ORDER NUMBER IS 74536 THE ORDER IS FOR THE CUSTOMER CODED NASA. IT WAS PLANNED TO BE PRODUCED ON JAN 3, 1975 . IT WAS PLANNED TO BE PRODUCED ON JAN 3, 1975 IT WAS ACTUALLY PRODUCED ON JAN 7, 1975 IT WAS SHIPPED ON JAN 9, 1975 ON SHIP ORDER NUMBER S4572 DATE 83/06/10 16:30:09 TYPE=B RID=002 82/08/11 JD0E

# 7.5.5.6. Slash Option (/)

The slash option searches for data that includes slashes. The following example searches for data containing slashes in report 1D:

The result is:

SHFT⊳ LINE 10 **FMT**Þ HLD CHRD HLD LN⊳ PSWD<sub>b</sub> " "RESULT" " ▶ RL♭ .DATE 83/06/28 15:58:49 TYPE=D RID=001 . 2 LINES FOUND OUT OF 14 LINES 83/06/28 JDOE 14 LINES> ۲ UNION STEEL/SULFR \* .DATE 83/06/10 16:28:29 TYPE=D RID=001 82/12/23 JDOE . <<< CORPORATE ORDER STATUS >>> \*ST.ORDER . PRODUCT .ODR.CUST. UNIT .EXTENDED.REQ'D .SALE. \*CD.NUMBER. TYPE .QTY.CODE. RETAIL . RETAIL .DELIVR.REP CUSTOMER OR 98782S BLACKBOX9 1 USSC 750312 SSF UNION STEEL/SULFR 54 OR 96755S GREENBOX9 1 USSC 750312 SSF UNION STEEL/SULFR 54 ..... END REPORT

# 7.5.5.7. Line Type Search Option (\*)

This function searches for asterisk (\*) and tab lines. When you make no specification, only tab lines are searched.

To search only asterisk (\*) lines, key an asterisk (\*) into the first column of the parameter line, followed by the search parameter.

The following example searches only asterisk (\*) lines that contain SH in the ST CD field in report 1B:

The result is:

LINE 10 FMT⊳ SHFT⊳ HLD CHR♭ HLD LN⊅ PSWD \* "RESULT" >> RL♭ 10:59:32 TYPE=B RID=001 83/07/07 .DATE 83/07/07 22 LINES> JDOE < 1 LINES FOUND OUT OF 24 LINES \*SH .DATE 83/06/29 13:13:28 TYPE=B RID=001 83/06/29 JDOE . <<< CORPORATE PRODUCTION STATUS >>> \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*SH 750109 LS BLACKBOX1 455661 74536 NASA 750103 750107 750109 S4572 THE ABOVE LINE IS AN EXAMPLE ITEM WHICH DENOTES: SH THAT THE STATUS OF THE ITEM IS SHIPPED THE STATUS WAS REPORTED ON JAN 9, 1975 BY L. THE ITEM IS A BLACK BOX TYPE 1, SERIAL NUMBER ITS RELATED ORDER NUMBER IS 74536 S SERIAL NUMBER 455661 THE ORDER IS FOR THE CUSTOMER CODED NASA. IT WAS PLANNED TO BE PRODUCED ON JAN 3, 1975 IT WAS ACTUALLY PRODUCED ON JAN 7, 1975 . IT WAS SHIPPED ON JAN 9, 1975 ON SHIP ORDER NUMBER \$4572 ..... END REPORT .....

# 7.6. SEARCH UPDATE FUNCTION (SU)

The SEARCH UPDATE function generates an update result. This update result can then be used by the DELETE RESULTS or UPDATE RESULTS functions to modify the contents of the original report.

This function is especially useful when you want to change certain kinds of data or delete numerous items. For instance, you could change the value in a particular field, such as PRODUCT COST, or you could delete all SHIPPED ITEMS from an IN PROCESS report.

NOTE:

Before you use the SEARCH UPDATE function, become familiar with the SEARCH function (7.5), the DELETE RESULTS function (6.3.6), and the UPDATE RESULTS function (6.3.7).

To call the SEARCH UPDATE function, key in SU and press the XMIT key. Figure 7–11 shows the SEARCH FUNCTION request screen.



Figure 7–11. SEARCH UPDATE Function Request Screen

The fast access format for the SEARCH UPDATE function is:

SU {rt[,f] {-[,f]}

where:

r

t

```
Is the RID number.
```

Is the type.

f

Is the format number.

rt[,f]

Specifies a report that is not displayed.

-[,f]

Specifies the report currently displayed.

## NOTE:

You cannot process a result with this function.

Key in the parameters for the SEARCH UPDATE function in the function mask just as you would for the SEARCH function. All SEARCH function options apply to the SEARCH **UPDATE** function.

The following example searches the report for all BLACKBOX9s in report 2B:

\*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*CD. DATE .IN. TYPE blackbox90 

The update result is:

SHFT⊳ 'UPRESULT" ▶ LINE> 1 FMT⊳ RL♭ HLD CHR⊳ HLD LN♭ PSWD» . DATE 83/09/01 10:29:44 TYPE=B RID=002 83/09/01 JDOE 20 LINES> ۲ 8 LINES FOUND OUT OF 42 LINES BLACKBOX9 .DATE 83/07/22 13:39:36 TYPE=B RID=002 83/07/15 JDOE . <<< CORPORATE PRODUCTION STATUS >>> -----\*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*CD. DATE .IN. TYPE \*== OR 741217 LS BLACKBOX9 98755 AMCO OR 741217 LS BLACKBOX9 IP 741217 LS BLACKBOX9 538993 98782 USSC ..... 84781 USSC 741215 741217 741215 741216 741230 741230 IP 741216 LS BLACKBOX9 563787 82381 FEDS IP 741230 LS BLACKBOX9 633287 84361 USSC 64231 AMCO 741201 741203 741204 S8531 SH 741204 LS BLACKBOX9 714577 750110 LS BLACKBOX9 735481 97242 USSC 750116 SC 84382 FEDS 741215 741215 IP 741215 LS BLACKBOX9 836584 ..... END REPORT

You can now change, add, or delete lines in this update result using the functions listed in 6.3.7. When you finish keying in the changes, key in UPD followed by the 1- to 6-character alphanumeric report password (if applicable), and press the XMIT key. See 6.3.7 for information about using the UPDATE RESULTS function.

To delete the lines in the update result from the original report, key in DEL followed by the 1- to 6-character alphanumeric report password (if applicable), and press the XMIT key. See 6.3.6 for information about using the DELETE RESULTS function.

To resume the SEARCH UPDATE function without modifying the original report, key in RSM or press the F1 function key.

NOTE:

To accelerate updating, use the TOTALIZE function (8.11) to fill fields (=).

# 7.7. CHANGE FUNCTION (CHG)

The CHANGE function locates and changes a character string in a report or result and displays the result on the screen.

To call this function, key in CHG and press the XMIT key. Figure 7–12 shows the CHANGE function request screen:



NOTES:

Specify the RID number of the report where you want to change the character string. To specify a displayed report or result, key in -.

(2) Specify the alphabetic form type where the report or result belongs.

Figure 7–12. CHANGE Function Request Screen

The fast access format for the CHANGE function is:

 $\begin{array}{c} \mathsf{CHG} & \mathsf{rt[,f]} \\ \mathsf{-[,f]} \end{array}$ 

where:

```
r
Ie the RID
```

Is the RID number.

Is the type.

f

t

Is the format number.

rt[,f]

Specifies a report or result that is not displayed.

-[,f]

Specifies the displayed report or result.

Transmit the entries in Figure 7–12 to display the function mask for report 2B.

To use the CHANGE function, key in the characters you want to change (known as the target string) starting in column 2 of the first line below the mask. Then, starting in column 2 of the second line below the mask, key in the new characters (known as the replacement string). The character string can be up to 32 characters. When you use the F or M option, enter the line type in column 1.

If your target string contains leading or embedded blanks, use the T option (7.7.5.1) to assign the space character to another character value. Otherwise, the space character, which is the default transparent character, matches anything and can produce unwanted results.

The following screen uses the CHANGE function to change BLACKBOX7 entries in the PRODUCT TYPE field to BROWNBOX7:

When you press the XMIT key, the target string BLACKBOX7 is changed to the replacement string BROWNBOX7, and the result is displayed on the screen. Figure 7–13 shows the report before using the CHANGE function. Figure 7–14 shows the result screen after you press the XMIT key.

LINED 12 FMTD RLD	SHFT⊳	HLD	CHR♭	HLD	LNÞ	PSWD⊳	Þ
.DATE 83/06/20 15:23:	42 TYPE=B	RID=002	82/08	/11 JI	DOE	<	48 LINES>
. <<< CORPORATE PRODUC	TION STATUS	>>>					
<b>*ST.STATUS.BY. PRODUCT</b>	.SERIAL.PRO	DUC.ORDER	.CUST.	PRODUC	PRODUC	SHIP	.SHIP .SPC.
*CD. DATE .IN. TYPE	.NUMBER. CO	ST .NUMBR	. CODE .	PLAN	ACTUAL .	DATE	.ORDER.COD.
*==,=====,==,========	. ======. ===		. = = = = .		======	======	.====
IP 741224 LS BLACKBOX1	436767	84389	AMCO	741223	741224		
IP 741225 LS BLACKBOX1	436768	84390	AMCO	741223	741225		
IP 741219 LS BLACKBOX2	637071	84353	INTR	741218	/41219		
CR /SUIIU LS BLACKBUAA	675291	94/54	FEDG	750121			
	737582	9/441	V MCO	741777	741222		
	746377	54237	FEDS	741201	741202	741203	58738
SH 741203 LD DERCKBOX	368061	54438	FEDS	741201	741201	741202	56937
SH 741209 LS BLACKBOXE	777324	54232	DICO	741207	741208	741209	S8538
SH 741203 LS BLACKBOX6	785367	52833	ARCO	741201	741202	741203	S8934
IP 741216 LS BLACKBOX6	926581	89381	INTR	741215	741216		
OR 741210 LS BLACKBOX7		99842	FEDS				
OR 741227 LS BLACKBOX7		99725	INTR				
SC 750108 LS BLACKBOX7	665481	97541	FEDS	750122	741 227		
IP /4122/ LS BLACKBOX/	733597	84351		741201	74126/	741202	C0E21
	/4402/	44232	TWIK	741201	741201	/41202	20231
IF /41413 L3 DLAUNDUA/	20201	04301	FFDS	/41210	. /#1010		
OR THESE ES DEACRDONG		54700	1 600				



LINED 1 FMTD RLD	SHFT⊳ HLD	CHR> HLD LN>	PSWD PRESULT >>
.DATE 83/08/31 10:11:59	TYPE=B RID=002	83/08/31 JDOE	< 48 LINES>
. <<< CORPORATE PRODUCTIO	N STATUS >>>		
<b>*ST.STATUS.BY. PRODUCT .SI</b>	RIAL. PRODUC. ORDER	.CUST.PRODUC.PRODUC	. SHIP .SHIP .SPC.
<b>*CD. DATE .IN. TYPE .NU</b>	IMBER. COST .NUMBR	.CODE. PLAN .ACTUAL	. DATE .ORDER.COD.
*==,=====,==,==,============			
IP 741224 LS BLACKBOX1 43	86767 84389	AMCO 741223 741224	
	50/08 84390 2023 84252	AMCU /41223 /41225	
	0/0/1 04303	INTR /41218 /41219	
SC 750110 LS BLACKBOX4	75281 97441	FFDS 750131	
IP 741222 LS BLACKBOX5 7	37582 84040	AMCO 741222 741222	
SH 741203 LS BLACKBOX0 74	6327 54237	FEDS 741201 741202	741203 58738
SH 741202 LS BLACKBOX6 30	58061 54438	FEDS 741201 741201	741202 56937
SH 741209 LS BLACKBOX6 7	7324 54232	DICO 741207 741208	741209 \$8538
SH 741203 LS BLACKBOX6 78	35367 52833	ARCO 741201 741202	741203 58934
IP 741216 LS BLACKBOX6 92	26581 89381	INTR 741215 741216	
OR 741210 LS BROWNBOX7	99842	FEDS	
OR 741227 LS BROWNBOX7	99725	INTR	
D 741227 10 BRUWNBUX/ 60	00481 97541	FLUS 750122	
SH 741202 LS BROWNBOX7 72	0305/ 84301 (A627 AA222	ANCU /4122/ /4122/	741202 89521
IP 741215 LS BROWNBOX7 93	3581 84381	FFDS 741215 741515	/11402 30331
OR 741230 LS BLACKBOX8	92788	FEDS	

Figure 7–14. Report after Using the CHANGE Function

When you finish using the CHANGE function, use the REPLACE (6.3.3) or DUPLICATE (6.3.2) function to save the result.

# 7.7.1. Options Used with the CHANGE Function

You can use the following options with the CHANGE function:

- A Makes changes in all line types. If you do not specify this option, only the tab lines are changed.
- M If a replacement occurs within a line, changes the line type.
- F Includes the first column of the mask as part of the character string.
- s Specifies a line number as the start of a scan search.
- T Specifies a transparent character that will match any character in the column where it is used.

Specify these options above the function mask.

# 7.7.1.1. A Option

The A option specifies that changes apply to all line types within a report.

The following example changes all IP entries to SH in report 1B:

The result is:

LINED 12 FMTD RLD	SHFT> HLD	CHR> HLD LN>	PSWD PPRESULT >
.DATE 83/06/28 12:46:4	8 TYPE=B RID=002	83/06/28 JDOE	< 48 LINES>
. <<< CORPORATE PRODUCT	TION STATUS >>>		
<b>*ST.STATUS.BY. PRODUCT</b> .	SERIAL. PRODUC. ORDER.	CUST . PRODUC . PRODUC .	SHIP .SHIP .SPC.
*CD. DATE .IN. TYPE .	NUMBER. COST .NUMBR.	CODE. PLAN . ACTUAL.	DATE .ORDER.COD.
	.=====.===.===		
SH 741224 LS BLACKBOXI	436767 84389	AMCO 741223 741224	
SH 741225 LS BLACKBUXI	435/58 84390	AMCU /41223 /41225	
$= 5\pi /41219 LS BLACKBUX2$	03/0/1 04303 04754	INIR /41210 /41219	
SC 750110 LS BLACKBOX4	675781 97441	FEDS 750131	
SH 741222 IS BLACKBOX5	737582 84040	AMCO 741222 741222	
SH 741203 LS BLACKBOXO	746327 54237	FEDS 741201 741202	741203 58738
SH 741202 LS BLACKBOX6	368061 54438	FEDS 741201 741201	741202 \$6937
SH 741209 LS BLACKBOX6	777324 54232	DICO 741207 741208	741209 58538
SH 741203 LS BLACKBOX6	785367 52833	ARCO 741201 741202	741203 58934
SH 741216 LS BLACKBOX6	926581 89381	INTR 741215 741216	
OR 741210 LS BLACKBOX7	99842	FEDS	
OR 741227 LS BLACKBOX7	99725	INTR	
SC 750108 LS BLACKBOX7	665481 97541	FEDS 750122	
SH /4122/ LS BLACKBUX/	/3359/ 84351	ANUU /4122/ /4122/	741202 59531
	/440 <i>L/</i> 44232 022501 94301	FEDS 741201 741201	141202 D0J31
= OP 741210 LS DLACKDUA/	933331 04381	FEDS /41210 /41010	
	52,00		

## 7.7.1.2. M Option

The M option includes a line type (tab, \*, .) specification as part of the replacement string.

The following example changes all tab lines that contain IP in the ST CD field to SH entries and asterisk (\*) lines in report 2B:

The result is:

L	INE	Þ 1	Ø	F۲	ſT⊳	RL♭		Sł	IFT⊳		HLD	CHR⊳	н	LD	LNÞ	PSWD⊳	" "RESI	JLT P
·	DAT	Е	83/0	06/2	28	13:08:	06	TYPE	E=B	RII	)=002	83/06	5/28	JĽ	ЮĒ	<	48 I	LINES>
:	_<<	<	CORI	POR	ATE	PRODUC	TION	ST	ATUS	>>	>							<b>a b a</b>
* *	ST.	STA	TUS	. ВҮ.	. PI	RODUCT	. SEF	TAL.	. PRO	DUC.	ORDER	CUST	. PROD	UC.	PRODUC.	DATE	. SHIP	.SPC.
	τ <u>υ</u> .			. 114.	· 	F C. 	. NUP	IDER		31 . 			. FLA		ACTURE.	DAIL .		
×	SH.	741	224	LS	BL	ACKBOXI	436	767			84389	AMCO	7412	23	741224	,	•	
*	SH	741	225	LS	BL	ACKBOX1	436	5768			84390	AMCO	7412	23	741225			
i *	SH	741	219	LS	BLi	ACKBOX2	637	071			84353	INTR	7412	18	741219			
	OR	750	110	LS	BL	ACKBOX4					94754	ARCO						
	SC	750	110	LS	BL	ACKBOX5	675	5281			97441	FEDS	7501	31				
*	SH	741	222	LS	BL	ACKBOX5	737	582			84040	AMCO	7412	22	741222	741207		<b>^</b>
	5H CU	741	203	LS		ACKBOXU	260	34/			54237	FEDS	7412	01	741202	741203	0 20/3	87
-	SH	741	202	LS		ACKBOXO	777	7374			54732		7412	07	741201	741202	S853	R
	SH	741	203	LS	BL	ACKBOX6	785	5367			52833	ARCO	7412	01	741202	741203	S893	4
*	SH	741	216	LS	BL	ACKBOX6	926	5581			89381	INTR	7412	15	741216			
	OR	741	210	LS	BL	ACKBOX7					99842	FEDS						
	OR	741	227	LS	BL	ACKBOX7					99725	INTR						
	SC	750	108		BL	ACKBOX7	665	9481			97541	FEDS	7501	22	741227			
×	5H Cu	741	202	15	BL	ACKBUX7	733	539/			04351		7412	2/	74122/	741201		1
× 1	SH	741	215	LS	BL	ACKBOX7	933	102/			84381	FFDS	7412	15	741515	/41202	2003	L
	OR	741	230	LS	BL	ACKBOX8	500				92788	FEDS	/ 114		141010			

# 7.7.1.3. F Option

The F option specifies that the first column of the parameter line of the mask will be used as part of the character string.

The following example changes SH to IP only in lines that contain an asterisk (\*) in column 1:

The result is:

LINED 10 FMTD RLD	SHFT > HLD	CHR> HLD LN>	PSWD PRESULT >>
.DATE 83/06/28 13:16:48	TYPE=B RID=002	83/06/28 JDOE	< 48 LINES>
. <<< CORPORATE PRODUCTI	ON STATUS >>>		
*ST.STATUS.BY. PRODUCT .S	ERIAL.PRODUC.ORDER.	CUST.PRODUC.PRODUC.	SHIP SHIP SPC.
CD. DATE IN. TIPE .N	UNBER. COST NUMBR.	CODE. PLAN .ACTUAL.	DATE .ORDER.COD.
*IP 741224 LS BLACKBOX1 4	36767 84389	AMCO 741223 741224	,
*IP 741225 LS BLACKBOX1 4	36768 84390	AMCO 741223 741225	
*IP 741219 LS BLACKBOX2 6	37071 84353	INTR 741218 741219	
OR 750110 LS BLACKBOX4	94754	ARCO	
SC 750110 LS BLACKBOX5 6	75281 97441	FEDS 750131	
*1P 741222 LS BLACKBOX5 7	37582 84040	AMCO 741222 741222	741000 00700
SH 741203 LS BLACKBOX6 7	40327 54237 68061 54438	FEDS 741201 741202	741203 20730
SH 741202 LD BLACKBOX6 7	77324 54232	DICO 741207 741208	741202 50557
SH 741203 LS BLACKBOX6 7	85367 52833	ARCO 741201 741202	741203 58934
*IP 741216 LS BLACKBOX6 9	26581 89381	INTR 741215 741216	
OR 741210 LS BLACKBOX7	99842	FEDS	
OR 741227 LS BLACKBOX7	99725	INTR	
50 /30108 L3 BLACKBUX/ 8	00481 9/041 33597 84251	NCO 741227 741227	
SH 741202 LS BLACKBOX7 7	44627 44232	INTR 741201 741201	741202 58531
*IP 741215 LS BLACKBOX7 9	33581 84381	FEDS 741215 741515	
OR 741230 LS BLACKBOX8	92788	FEDS	

# 7.7.1.4. S Option

The S option specifies the starting line in the report, where the CHANGE function begins its search.

The following example changes IP to SH beginning at line 9 of the report:

The result is:

דייארא אוס אוריים א	
$\frac{1}{10000000000000000000000000000000000$	63/06/26 JDUE ( 46 LINES)
. ((( CURPURATE PRODUCTION STATUS >>>	
*ST. STATUS. BY. PRODUCT . SERIAL . PRODUC. ORDER	.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC.
<b>*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR</b>	.CODE. PLAN .ACTUAL. DATE .ORDER.COD.
***,******,**,*************************	
IP 741224 LS BLACKBOX1 436767 84389	AMCO 741223 741224
IP 741225 LS BLACKBOX1 436768 84390	AMCO 741223 741225
IP 741219 LS BLACKBOX2 637071 84353	INTR 741218 741219
OR 750110 LS BLACKBOX4 94754	ARCO
SC 750110 LS BLACKBOX5 675281 97441	FEDS 750131
SH 741222 LS BLACKBOX5 737582 84040	AMCO 741222 741222
SH 741203 LS BLACKBOX0 746327 54237	FEDS 741201 741202 741203 S8738
SH 741202 LS BLACKBOX6 368061 54438	FEDS 741201 741201 741202 S6937
SH 741209 LS BLACKBOX6 777324 54232	DICO 741207 741208 741209 S8538
SH 741203 LS BLACKBOX6 785367 52833	ARCO 741201 741202 741203 58934
SH 741216 LS BLACKBOX6 926581 89381	INTR 741215 741216
OR 741210 LS BLACKBOX7 99842	FEDS
OR 741227 LS BLACKBOX7 99725	INTR
SC 750108 LS BLACKBOX7 665481 97541	FEDS 750122
SH 741227 IS REACKBOX7 733597 84351	AMCO 741227 741227
SH 741207 IS BLACKBOX7 744627 44237	INTE 741201 741201 741202 58531
	FFDS 741215 741515
= DI (71210 L0 DERCEDOR / 50001 01000 000000	LEDO (JI210 (JI210

# 7.7.1.5. T Option

The T option specifies a transparent character. A transparent character is one that matches any character in that position, including blanks. To specify a transparent character, key in a T followed by some character above the function mask. The character following the T is the transparent character.

The following example uses X as the transparent character to change any 5-character numeric entry that begins with 92 to 90000:

The result screen shows that the order number on the last line that was 92788 is now changed to 90000.

LINED 10 FMTD RLD	SHFT> HLD	CHRD HLD LND	PSWD& ""RESULT" >>
.DATE 83/06/28 12:40:4	4 TYPE=B RID=002	83/06/28 JDOE	< 48 LÍNES>
. <<< CORPORATE PRODUC	TION STATUS >>>		
<b>*ST.STATUS.BY. PRODUCT</b>	. SERIAL . PRODUC . ORDER .	CUST . PRODUC . PRODUC .	SHIP .SHIP .SPC.
*CD. DATE .IN. TYPE	NUMBER. COST .NUMBR.	CODE. PLAN . ACTUAL.	DATE .ORDER.COD.
IP 741224 LS BLACKDUAL	430/0/ 84389	ANCO 741223 741224	
IP 741225 LS DLACKDOAL	430700 04350 637071 84353	TNTP 741223 741223	
OR 750110 LS BLACKBOX2	94754	ARCO	
SC 750110 LS BLACKBOX5	675281 97441	FEDS 750131	
IP 741222 LS BLACKBOX5	737582 84040	AMCO 741222 741222	
SH 741203 LS BLACKBOX0	746327 54237	FEDS 741201 741202	741203 58738
SH 741202 LS BLACKBOX6	368061 54438	FEDS 741201 741201	741202 S6937
SH 741209 LS BLACKBOX6	777324 54232	DICO 741207 741208	741209 58538
SH 741203 LS BLACKBOX6	785367 52833	ARCO 741201 741202	741203 <u>S8934</u>
IP 741216 LS BLACKBOX6	900001 89381	INTR 741215 741216	
OR 741210 LS BLACKBOX7	99844		
CR 741227 LD DLACKDUA7	665491 97541	FFDS 750122	
	733597 84351	AMCO 741227 741227	
SH 741202 LS BLACKBOX7	744627 44232	INTR 741201 741201	741202 S8531
IP 741215 LS BLACKBOX7	933581 84381	FEDS 741215 741515	
OR 741230 LS BLACKBOX8	90000	FEDS	
	,		

# 7.8. MATCH FUNCTION (MA)

The MATCH function compares the contents of selected fields from two different reports. You choose the issuing and receiving reports to match, and then specify the fields you want to match. When the contents of the selected fields are identical (match), the contents of the predetermined fields in the issuing report are moved to the corresponding fields in the result. The result is a duplication of the receiving report, with fields moved in for lines that had matches in the issuing report, and blank-filled fields for lines that did not have matches. The contents of the result vary depending on the options you specify.

To use the MATCH function, you specify:

- 1. The issuing and receiving report to match
- 2. The fields to match
- 3. The fields to move

#### NOTES:

- 1. Before you use the MATCH function, become familiar with the SEARCH (7.5) and SORT (7.10) functions.
- 2. If you do not presort the issuing or receiving reports, MATCH sorts the two reports internally. For greater efficiency, sort the issuing and receiving reports by the fields in the MATCH function mask before matching. Then, specify the P option in the MATCH mask.
- 3. To save the match result, use the DUPLICATE REPORT function (6.3.2) to copy the result into a new report, or use the REPLACE function (6.3.3) to replace the report with the result.

To call this function, key in MA and press the XMIT key. Figure 7–15 shows the MATCH function request screen.



NOTES:

- (1) Designates the issuing report (RID number, type, format number, and mode if different from the mode of the receiving report). Format number is used for the mask display. You cannot specify as the issuing report.
- (2) Designates the receiving report (RID number, type, format number). To specify a displayed report, key in for the RID number and omit type. Format number is for the mask and result displays.



Complete the MATCH function request screen and press the XMIT key. The next screen displays the function masks of both the issuing and receiving reports. To specify parameters in these function masks:

- 1. Use numbers 1 through 5 to indicate match fields. You can match up to five fields.
- 2. Use letters A through M to indicate move fields. You can move up to 13 fields.
- 3. Enter each parameter in the first column of the field. Number parameters sequentially, starting with number 1. Use the letter A for the first move parameter, and continue without skipping letters.
- 4. Make each receiving field the same number of characters as its corresponding issuing field. Erase asterisks in the masks to adjust field sizes. If you do not adjust the number of columns in this way, data is moved according to the type of the receiving field (right- or left-justified).

You can use the following options with the MATCH function:

- D Omits match information lines (lines matched and match options). See 7.5.5.4. for an example of the D option.
- F Do not blank fill move fields in the receiving field on a no-match condition. Normally, receiving fields that are not matched are filled with blanks.
- M Displays only matched lines.
- N Displays only lines not matched.
- P The issuing and receiving reports are already sorted by the fields to match and need not be sorted as part of the MATCH function. Presorting and using the P option improves processing time.

You can character fill move fields in the receiving report on no-match conditions by specifying a character string following the alphabetic parameters in the issuing mask. For example, to fill a date field, enter a831231 in the issuing mask. If the date field is a second move field, enter b831231. If it is the thirteenth move field, enter m831231.

After you transmit the entries made in Figure 7–15, the function masks in Figure 7–16 are displayed. The upper mask is the issuing report (1C), and the lower mask is the receiving report (2B).

The parameters keyed into Figure 7–16 use the MATCH function to compare the PRODUCT TYPE field in the issuing and receiving reports. If the contents of both fields match, the contents of the issuing report move to the same field of the result. Specify the M option above the function mask:

PRODUCT SUB .PRODUC. WHOLE . RETAIL . SALES .SPACE. DEMO . .COMMISS. REQ .QUANTITY. DEMO RESULTS . KEY . COST . SALES . TYPE \$\$\$\$ \_\_\_\_\_ \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP . SPC . .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*CD. DATE .IN. TYPE 1 аØ

Figure 7–16. Function Masks for the Issuing and Receiving Reports

Because the M option is specified, only matched lines are displayed in the result screen. Note that in the following result screen, the receiving field is overlaid with data from the issuing report:

LINE 1 FMT RL SHFT HLD CHR HLD LN PSWD "RESULT . .DATE 83/06/28 15:01:31 TYPE=B RID=002 82/08/11 JDOE < 50 LINES
. 41 LINES MATCHED OUT OF 42 LINES
. n
CORPORATE PRODUCTION STATUS
*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC.
*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD.
*==.==
IP 741224 LS BLACKBOX1 436767 13500 84389 AMCO 741223 741224
IP 741225 LS BLACKBOX1 436768 13500 84390 AMCO 741223 741225
OP 741219 LS BLACKBOX2 637071 13600 84353 1NTK 741218 741219
SC 750110 IS BLACKBOX4 13000 97/34 ARCO
IP 741222 LS BLACKBOX5 737582 13900 84040 AMCO 741222 741222
SH 741202 LS BLACKBOX6 368061 14000 54438 FEDS 741201 741201 741202 S6937
SH 741209 LS BLACKBOX6 777324 14000 54232 DICO 741207 741208 741209 S8538
SH 741203 LS BLACKBOX6 785367 14000 52833 ARCO 741201 741202 741203 S8934
IP 741216 LS BLACKBOX6 926581 14000 89381 INTR 741215 741216
OR /41210 LS BLACKBOX7 14100 99842 FEDS
UK /4122/ LD DLACKBUA/ 14100 97/25 INTK SC 750109 IS DLACKBUA/ 555491 14100 97541 5505 750122
IP 741227 IS BLACKBOX7 733597 14100 54351 MCO 741227 741227
SH 741202 LS BLACKBOX7 744627 14100 44232 INTR 741201 741201 741202 S8531

In the next screen, the MATCH function parameters compare the ST CD and CUST CODE in the issuing and receiving reports. If the contents of these fields match, the contents in the ORD QTY field of the issuing report move to the SPC COD field of the result, and the contents of the REQ'D DELIVR field of the issuing report move to the PRODUC PLAN field of the result. In this example, 1D is the issuing report, 2B is the receiving report, and the M option is specified.

.EXTENDED.REQ'D .SALE. \*ST.ORDER . PRODUCT .ODR.CUST. UNIT .QTY.CODE. RETAIL . RETAIL .DELIVR.REP . \*CD.NUMBER. TYPE CUSTOMER = = 2 b \*ST.STATUS.BY. PRODUCT .SERIAL.PRODUC.ORDER.CUST.PRODUC.PRODUC. SHIP .SHIP .SPC. \*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD. \*\*\*\*,\*\*\*\*\*\*,\*\*\*\*\*\*,\*\*\*\*\*\* ----1 2 ь aØ

The result is:

LINED	12	FMT	RL»	40 TV	SHFT D	DID-0	HLD	CHR	H	LD LND	• 1	SWD⊳	" "RES	
.DAIL	11 11	O/ ZO	14:5/: Matc	49 11 HED OU	ድድ≕ይ ጥ ∩ፑ	RID=0	ער זיז א	82/00	3/11	JDOF		<	20	LINES>
. M		NLU	Inte		1 01	74	LIN	50						
. <<<	CORP	ORATE	E PRODUC	TION S	TATUS	\$ >>>								
*ST.S'	TATUS.	BY. F	RODUCT	. SERIA	L.PRO	DUC.OR	DER.	CUST	PROD	UC.PRC	DUC.	SHIP	.SHIP	.SPC.
*CD. I	DATE .	IN.	TYPE	. NUMBE	R. CO	ST .NU	MBR.	CODE	. PLA	N . ACI	UAL.	DATE	. ORDE	R.COD.
A==.=:	50110	ະະ.ະະ ເຕັນ:	ACKBOAN	. = = = = = =	s, sss		555. 754	ADCO	7504	==.=== 10			. = = = = =	=.===.
08 7	41210		ACKBOX4			99	RA7	FFDS	7504	12				1
0R 74	41227	LS BI	ACKBOX7			99	725	INTR	7503	12				î
OR 74	41230	LS BL	ACKBOX8			92	788	FEDS	7503	12				î
OR 74	41217	LS BI	ACKBOX9			98	755	AMCO	7503	12				2
OR 74	41210	LS BI	ACKBOX9			98	782	USSC	7503	12				1
OR 74	41210	LS GF	REENBOX1			96	751	FEDS	7503	12				1
OR 74	41211	LS GH	EENBOX4			96	552	ARCO	7504	12				2
00 7	41229	LS GH	CLENBOX5			99	103	DICO	7503	12				1
OR 74	40310		FFNROXG			94	951	AMCO	7503	12				2
UN /-	10310			EN	D REP	PORT		AIICO	, 505	12				4
			••											

In the next example, 1D is the issuing report, 2B is the receiving report, and no options are specified:

*ST.ORDER . PRODUCT .ODR.CUST. UNIT .EXTENDED.REQ'D .SALE
*CD.NUMBER. TYPE .QTY.CODE. RETAIL . RETAIL .DELIVR.REP . CUSTOMER .
******** ********* *** **** ***********
*CD. DATE .IN. TYPE .NUMBER. COST .NUMBR.CODE. PLAN .ACTUAL. DATE .ORDER.COD.
*==.====
1 $2$ $b$ $aZ$

In the result screen, the CUST CODE and SPC COD fields are filled with blanks where no matches are found. Where matches are found, data from the ORD QTY field of the issuing report moves to the SPC COD field of the result, and data from the SALE REP field of the issuing report moves to the CUST CODE of the result.

E LINED 1 FMTD RLD	SHFT > HLD CHR >	HLD LN > PSWD >	° "RESULT" ♥ ♦
.DATE 83/06/28 14:51:52	TYPE=B RID=002 82/08	3/11 JDOE <	51 LINES>
. 9 LINES MATCHEI	O OUT OF 42 LINES		
. <<< CORPORATE PRODUCTIO	ON STATUS >>>		
*ST.STATUS.BY. PRODUCT .SI	ERIAL. PRODUC. ORDER. CUST.	.PRODUC.PRODUC. SHIP	.SHIP .SPC.
<b>*CD. DATE .IN. TYPE .NU</b>	JMBER. COST .NUMBR.CODE.	. PLAN .ACTUAL. DATE	.ORDER.COD.
*==.====.==.==.==.==.==.==	*****.*****.*****.****.	. = = = = = . = = = . = = = = = = = = =	=,====,===,
IP 741224 LS BLACKBOX1 43	36767 84389	741223 741224	
IP 741225 LS BLACKBOX1 43	36768 84390	741223 741225	
IP 741219 LS BLACKBOX2 63	37071 84353	741218 741219	
OR 750110 LS BLACKBOX4	94754 LSJ	*	1
SC 750110 LS BLACKBOX5 6	75281 97441	750131	
IP 741222 LS BLACKBOX5 73	37582 84040	741222 741222	
SH 741203 LS BLACKBOX0 74	46327 54237	741201 741202 74120	3 S8738
SH 741202 LS BLACKBOX6 36	58061 54438	741201 741201 74120	2 S6937
SH 741209 LS BLACKBOX6 7	77324 54232	741207 741208 74120	9 S8538
SH 741203 LS BLACKBOX6 78	85367 52833	741201 741202 74120	3 58934
IP 741216 LS BLACKBOX6 92	26581 89381	741215 741216	
OR 741210 LS BLACKBOX7	99842		
OR 741227 LS BLACKBOX7	99725		
SC 750108 LS BLACKBOX7 60	55481 97541	750122	
IP 741227 LS BLACKBOX7 73	33597 84351	741227 741227	

## 7.9. MATCH UPDATE FUNCTION (MAU)

The MATCH UPDATE function generates an update result. This update result can then be used by the DELETE RESULTS or UPDATE RESULTS functions to modify the contents of the original receiving report.

#### NOTE:

Before you use the MATCH UPDATE function, become familiar with the MATCH function (7.8), DELETE RESULTS function (6.3.6), and UPDATE RESULTS function (6.3.7).

To call the MATCH UPDATE function, key in MAU and press the XMIT key. After that, the procedure is identical to the MATCH function procedure.

You can now change, add, or delete lines in the update result using the functions listed in 6.3.7. When you finish updating, key in UPD followed by the 1- to 6-character alphanumeric report password (if applicable), and press the XMIT key. See 6.3.7 for information about using the DELETE RESULTS function.

To delete the lines in the update result from the report, key in DEL followed by the 1to 6-character alphanumeric report password (where applicable), and press the XMIT key. See 6.3.6 for information about using the DELETE RESULTS function.

To resume the MATCH UPDATE function without modifying the original report, enter RSM.

#### 7.10. SORT FUNCTION (SORT)

The SORT function rearranges the order of lines in a report or result on display, then displays the sorted result.

You can sort data in ascending or descending order. In ascending order, data is arranged from lowest to highest value; a descending sort is the opposite. You can use a numerical sort in combination with an ascending or descending sort. It sorts decimal relationships and sign numbers. Characters, numerals, and special characters are sorted according to the System 80 EBCDIC code table, except when you use the numeric parameter, which sorts numerals in order of their actual values.

You can use up to five fields and sort up to five levels. To designate sort fields, key in the numbers 1 through 5 in the appropriate fields of the function mask. Field 1 is the highest level; field 5 is the lowest level.

Next to the number designating a sort field, key in:

- A or blank to sort the field in ascending order
- D to sort the field in descending order
- N to sort decimal and sign numbers (combine with A, blank, or D)

Specify the N option when you sort a report on fields defined as edit code 1 (numeric). Otherwise, subsequent use of the binary find function (7.4) will not work on these fields.

NOTE:

The size of the load put on the system during a sort is in direct proportion to the number of lines in the report.

To call the SORT function, key in SORT and press the XMIT key. Figure 7–17 shows the SORT function request screen:



Figure 7–17. SORT Function Request Screen (Part 1 of 2)

NOTES:

- (1) This line specifies the RID number of the report to sort. To specify a displayed report or result, key in -.
- (2) This line specifies the alphabetic form type where the report or result belongs.
- (3) This line specifies the number of the format to use when you want to display the mask or result from a sort.

Figure 7–17. SORT Function Request Screen (Part 2 of 2)

The fast access format for the SORT function is:

SORT {rt[,f] -[,f] }

where:

Is the RID number.

t

r

Is the type.

f

Is the format number.

rt[,f]

Specifies a report not on display.

-[,f]

Specifies a report or result on display.

#### Example:

To sort report 2B, key in SORT 2B.

In the following example, the SORT function first sorts the PRODUCT TYPE field in ascending order, then sorts the SERIAL NUMBER field in descending order.

The next result lists each product type in ascending order and the serial numbers within product type in descending order. The BLACKBOX1 entry with serial number 436768 appears before the BLACKBOX1 entry with serial number 436767.

LINE⊳ 1∅	FMTÞ RLÞ	SHFT⊳	HLD	CHR⊳	HLD	LNÞ	PSWD⊳	RESULT
.DATE 83/	06/28 14:42:2	6 TYPE=B	RID=002	82/08	3/11 JI	DOE	<	48 LINES
. <<< COR	PORATE PRODUCT	ION STATUS	>>>					
<b>*ST.STATUS</b>	.BY. PRODUCT .	SERIAL.PROD	UC.ORDER.	CUST.	PRODUC.	PRODUC	. SHIP	.SHIP .SPC
*CD. DATE	.IN. TYPE .	NUMBER. COS	ST . NUMBR.	CODE.	PLAN .	ACTUAL	. DATE	. ORDER . COD
*==.=====	.==.=======.	,		====.	======	. = = = = = .	.======	. = = = = = . = = = =
SH 741203	LS BLACKBOX0	746327	54237	FEDS	741201	741202	741203	S8738
IP 741225	LS BLACKBOX1	436768	84390	AMCO	741223	741225		
IP 741224	LS BLACKBOX1	436767	84389	AMCO	741223	741224		
IP 741219	LS BLACKBOX2	637071	84353	INTR	741218	741219		
OR 750110	LS BLACKBOX4		94754	ARCO				
IP 741222	LS BLACKBOX5	737582	84040	AMCO	741222	741222		
SC 750110	LS BLACKBOX5	675281	97441	FEDS	750131			
IP 741216	LS BLACKBOX6	926581	89381	INTR	741215	741216		
SH 741203	LS BLACKBOX6	785367	52833	ARCO	741201	741202	741203	S8934
SH 741209	LS BLACKBOX6	777324	54232	DICO	741207	741208	741209	S8538
SH 741202	LS BLACKBOX6	368061	54438	FEDS	741201	741201	741202	S6937
IP 741215	LS BLACKBOX7	933581	84381	FEDS	741215	741515		
SH 741202	LS BLACKBOX7	744627	44232	INTR	741201	741201	741202	S8531
IP 741227	LS BLACKBOX7	733597	84351	AMCO	741227	741227		
SC 750108	LS BLACKBOX7	665481	97541	FEDS	750122			
OR 741210	LS BLACKBOX7		99842	FEDS				
OR 741227	LS BLACKBOX7		99725	INTR				
SH 741203	LS BLACKBOX8	945327	74272	FEDS	741201	741202	741203	S8518

Use the REPLACE function (6.3.3) to create a permanent report arranged by the sort result. Use the DUPLICATE REPORT function (6.3.2) to copy the result into a new report.

.

# 8. Calculation Functions

#### 8.1. HOW TO USE THE TOTALIZE FUNCTION

The TOTALIZE function performs arithmetic calculations and move operations on fields within reports or results. This function produces a result.

To call the TOTALIZE function, key in TOT and press the XMIT key. Figure 8–1 shows the TOTALIZE function request screen.



NOTES:

(1) Specify the RID number of the report you want to use. To specify a displayed report or result, key in -.

(2) Specify the alphabetic form type of the report.

(3) Specify the format number of the format you want to use to display the mask and the result of the program.

Figure 8–1. TOTALIZE Function Request Screen

Complete the function request screen and press the XMIT key. The next screen displayed is the function mask for the designated report:

To specify parameters using the TOTALIZE function, key in the parameter in the first column of the appropriate fields, beginning at the first line below the function mask. The parameter entries specify the arithmetic or move operations you want to perform on the fields in the report or result.

Table 8–1 shows the parameters available with the TOTALIZE function.

Parameter	arameter Function		Function		
+	Multiplication	S	Subtotal		
+	Addition	с	Cumulation		
_	Subtraction	+	Entry counting		
1	Division	с	Sequencing		
=	Total (result of calculation	A	Average		
м	Move data field	=	Filling field		

Table 8–1. Parameters for TOTALIZE Function

NOTE:

Specify up to a maximum of 18 parameters, 16 of which can be pluses or minuses.

Table 8–2 shows the options available with the TOTALIZE function.

Table	8-2.	TOTALIZE	Function	Options
-------	------	----------	----------	---------

Option	Details of Operation								
E	Counts the number of entries								
1	Subtotal and total captions are not shown in the result.								
0	Only subtotals and totals are shown in the result.								
Rn	Conventional rounding, less than n numbers								
Un	Rounding upward, less than n numbers								
Dn	Rounding downward, less than n numbers								
V	Results of vertical summation, averages, and subtotals are displayed under each item (becomes * line).								
т	Creates the line type of a V option operation as a tab line								

Specify an option above the first line of the function mask.

The following screen shows a simple example using the TOTALIZE function:

The preceding screen is the function mask for report 1C. Key the parameters into the first position of each field. When you complete all the parameters, press the XMIT key.

The following screen is the result. Note that the total for the fields containing the plus (+) and minus (-) parameters appears in the field containing the equal (=) sign:

LINE» 10	FMT⊳	RL⊳	SHF1	'> 1	HLD CHRD	HLD	LNÞ P	SWD& "RESULT" >>
.DATE 83/	06/24	12:59:0	8 TYPE=C	RID=0	01 82/08	11 J	DOE	< 24 LINES>
🗧 . <<< COR	PORATE	FACTORS	BASE >>	•>				
* PRODUCT	. SUB	.PRODUC.	WHOLE .	RETAIL	. SALES .	SPACE.	DEMO .	· .
* TYPE	. KEY	. COST .	SALE\$ .	\$\$\$\$	.COMMISS.	REQ .	QUANTITY.	DEMO RESULTS .
*========	. = = = = =	.=====.	======.=		.======.		=======.	
BLACKBOX1	A	13500	16875	23625	2362.50	100	1	17986.5
BLACKBOX2	. A	13600	17000	23800	2380.00	110	2	18128
BLACKBOX3	A	13700	17125	23975	2397.50	120	4	18268.5
BLACKBOX4	В	13800	17250	24150	2415.00	130	10	18405
BLACKBOX5	В	13900	17375	24325	2432.50	140	50	18507.5
BLACKBOX6	C	14000	17500	24500	2450.00	150	100	18600
BLACKBOX7	C	14100	17625	24675	2467.50	160	10	18832.5
BLACKBOX8	D	14200	17750	24850	2485.00	170	20	18965
BLACKBOX9	D	14300	17875	25025	2502.50	180	40	19087.5
GREENBOX1	E	13700	17125	23975	2397.50	200	80	18272.5
GREENBOX2	Ē	13900	17375	24325	2432.50	210	160	18467.5
GREENBOX3	E	14100	17625	24675	2467.50	220	5	18897.5
GREENBOX4	F	14300	17875	25025	2502.50	230	15	19162.5
GREENBOX5	G	14500	18125	25375	2537.50	240	25	19427.5
GREENBOX6	Н	14700	18375	25725	2572.50	250	1	19726.5
GREENBOX7	I	14900	18625	26075	2607.50	260	2	20000.5
GREENBOX8	J	15100	18875	26425	2642.50	270	3	20274.5
GREENBOX9	K	15300	19125	26775	2677.50	280	4	20548.5

The information displayed on the screen is a result, and the original report remains unchanged. If you want to save the result, use the DUPLICATE REPORT function (6.3.2) or REPLACE function (6.3.3).

The fast access format for the TOTALIZE function is:

TOT { rt[,f] -[,f] }

where:

Is the RID number.

t

Is the type.

f

r

Is the format number.

rt[,f]

Specify if the report is not displayed.

-[,f]

Specify if the report is displayed or to specify the result.

Example:

To use the TOTALIZE function on report 1C, key in TOT 1C.

NOTES:

- 1. If data is in the incorrect form within a report, it is regarded as a zero for arithmetic operations.
- 2. See 8.13 for information about how the MAPPER 80 system displays numeric fields you specify with the TOTALIZE function.
- 3. Results produced by the TOTALIZE function can be expressed with up to 15 significant figures. Results that are more than 15 significant figures are truncated.

## **8.2. HORIZONTAL ARITHMETIC**

Horizontal arithmetic is calculating or moving data on one line and storing the result in a separate field on that line. You can also perform arithmetic operations using constants. For example, you can multiply a field by the same number throughout the report. You can perform only one multiplication, division, or move at a time. You can add or subtract a maximum of 16 fields.

In the following screen, the TOTALIZE function is called for report 1C using the fast access method:

LINE>tot lo	ØFMT 0	RL⊳	SHFT	Þ	HLD CHRD	HLI	)LN⊳ P	SWD	P	٥
.DATE 83/0	6/29	13:07:4	9 TYPE=C	RID=0	01  83/06	5/29 J	IDOE	<	24 LINES	>
. <<< CORP	ORATE	FACTORS	BASE >>	>						
* PRODUCT .	SUB .	PRODUC.	WHOLE .	RETAIL	. SALES .	SPACE.	DEMO .			
* TYPE .	KEY .	COST .	SALEŞ .	\$\$\$\$	.COMMISS.	REQ .	QUANTITY.	DEMO	RESULTS .	
*=======.	====.	=====.		******		=====.			**********	
BLACKBOX1	A	13500	16875	23625	2362.50	100	1			
BLACKBOX2	λ	13600	17000	23800	2380.00	110	2			
BLACKBOX3	A	13700	17125	23975	2397.50	120	4			
BLACKBOX4	В	13800	17250	24150	2415.00	130	10			
BLACKBOX5	B	13900	17375	24325	2432.50	140	50			
BLACKBOX6	C	14000	17500	24500	2450.00	150	100			
BLACKBOX7	C	14100	17625	24675	2467.50	160	10			
BLACKBOX8	D	14200	17750	24850	2485.00	170	20			
BLACKBOX9	D	14300	17875	25025	2502.50	180	40			1
GREENBOX1	E	13700	17125	23975	2397.50	200	80			
GREENBOX2	E	13900	17375	24325	2432.50	210	160			
GREENBOX3	E	14100	17625	24675	2467.50	220	5			
GREENBOX4	F	14300	17875	25025	2502.50	230	15			
GREENBOX5	G	14500	18125	25375	2537.50	240	25			
GREENBOX6	н	14700	18375	25725	2572.50	250	1			
GREENBOX7	I	14900	18625	26075	2607.50	260	2			
GREENBOX8	J	15100	18875	26425	2642.50	270	3			
GREENBOX9	К	15300	19125	26775	2677.50	280	4			

Press the XMIT key to display the function mask for report 1C.

Key in a plus sign (+), minus sign (-), slash (/), or asterisk (\*) in the fields where data is totalized. Key in an equal sign (=) in the field where the total is placed.

NOTE:

For multiplication and division, key in:

- A plus sign in the field containing the dividend or multiplicand
- The operator (\* or/) in the field containing the divisor or multiplier.

The following example uses the TOTALIZE function to divide data in the SPACE REQ field (divisor) by the data in the DEMO QUANTITY field (dividend) and places the total (quotient) in the DEMO RESULTS field:

The result is:

	LINE⊳ 1	<b>FMT</b> ⊳	RL⊳	SHF	<b>r</b> Þ	HLD CHR>	HLI	DLN⊳ H	SWDD PRESULT
	.DATE 83/0	06/24	13:01:34	4 TYPE=0	C RID=0	01 82/08	8/11 J	JDOE	< 24 LINES>
	. <<< CORE	PORATE	FACTORS	BASE >:	>>				
	* PRODUCT	SUB	. PRODUC .	WHOLE .	RETAIL	. SALES	SPACE.	DEMO .	
	* TYPE	KEY	. COST .	SALES .	<b>\$\$\$\$</b>	. COMMISS.	REQ .	QUANTITY.	DEMO RESULTS .
	*=======	=====	. = = = = = . :		======		. = = = = .		
	BLACKBOX1	A	13500	16875	23625	2362.50	100	1	100
-	BLACKBOX2	A	13600	17000	23800	2380.00	110	2	55
	BLACKBOX3	A	13700	17125	23975	2397.50	120	4	30
-	BLACKBOX4	В	13800	17250	24150	2415.00	130	10	13
	BLACKBOX5	B	13900	17375	24325	2432.50	140	50	2.8
	BLACKBOX6	С	14000	17500	24500	2450.00	150	100	1.5
	BLACKBOX7	C	14100	17625	24675	2467.50	160	10	16
¥	BLACKBOX8	D	14200	17750	24850	2485.00	170	20	8.5
	BLACKBOX9	D	14300	17875	25025	2502.50	180	40	4.5
	GREENBOX1	E	13700	17125	23975	2397.50	200	80	2.5
	GREENBOX2	E	13900	17375	24325	2432.50	210	160	1.3125
	GREENBOX3	E	14100	17625	24675	2467.50	220	5	44
	GREENBOX4	F	14300	17875	25025	2502.50	230	15	15.333333333333
	GREENBOX5	G	14500	18125	25375	2537.50	240	25	9.6
	GREENBOX6	Н	14700	18375	25725	2572.50	250	1	250
	GREENBOX7	I	14900	18625	26075	2607.50	260	2	130
	GREENBOX8	J	15100	18875	26425	2642.50	270	3	90
	GREENBOX9	K	15300	19125	26775	2677.50	280	4	70
-									

When the / field (DEMO QUANTITY) contains 0 or blanks as data, the display in the result field is filled with asterisks. This indicates that the operation is impossible (8.13).

You can add and subtract several fields at the same time. The following example uses the TOTALIZE function to add the plus (+) fields, subtract the minus (-) fields, and place the result in the equal (=) field:

You can add, subtract, divide or multiply a constant by entering the number after the parameter symbol. The following example multiplies the contents of the DEMO QUANTITY field by 10 and places the product in the DEMO RESULTS field throughout the report:

To subtract a fixed value, enter plus minus (+-) and the constant. The following example subtracts a fixed value of 10000 from the contents of the SALES COMMISS field and places the result in the DEMO RESULTS field:

# **8.3. VERTICAL SUMMATION**

Vertical summation is adding fields of data in a report and listing the totals of each field at the end of the result.

To perform vertical summation using the fast access method, key in TOT 1C into line 0 and press the XMIT key.

In the function mask, enter a plus sign (+) in the first column of the field to sum vertically. The following screen shows how to vertically sum several fields at the same time:

The result displays summary lines at the end of the report. The sum of each specified field is displayed under GRAND-TOTAL. Field titles from the header lines preface grand totals:

LINE 232 HLD CHRÞ HLD LN♭ PSWD PRESULT >> **FMT**⊳ RLÞ -SHFT⊳ 26775 2677.50 15300 19125 GREENBOX9 ĸ 280 4 . GRAND-TOTAL COST = 255600 . PRODUC SALES COMMISS = 319500 SALES COMMISS = 447300 SPACE REQ = 3420 DEMO ..... END REPORT

You can specify TOTALIZE parameters only on one line of the mask. However, you can specify TOTALIZE parameters on two lines when you perform horizontal arithmetic and vertical summation at the same time.
For example, to find the total storage space required for one package product, multiply the SPACE REQ field by the DEMO QUANTITY field. The sum of the DEMO QUANTITY fields equals the total storage space required for all packaged products. To compute this sum, key in a plus sign (+) below the equal sign (=) in the function mask, as shown in the following screen:

* TYPE . KEY . COST . SALE\$ . \$\$\$\$ .COMMISS. REQ .QUANTITY. DEMO RESULTS . ********** ***** ******* ***********
---

The result displays the grand total of the DEMO RESULTS field:

LINE⊳ 23⊠	FMT⊳	RL⊳ -	SHFT⊳	HLD CHR⊳	HLD LN⊳	PS₩D⊳	RESULT >>
GREENBOX9	K	15300	19125	26775 2677.50	280	4	
. GRAND-TOTAL		DEMO R	ESULTS . END REP	= 99150 ORT			

## 8.4. AVERAGING

The TOTALIZE function also computes averages for numeric fields. The function adds all the line entries in a field, computes the average, and displays the average at the end of the result. You can average a maximum of 16 fields each time you use the averaging parameter.

To compute averages, key in TOT 1C and press the XMIT key to display the function mask. In the function mask, key in an A in the first column of the fields you want to average. Then, press the XMIT key.

\* PRODUCT . SUB .PRODUC. WHOLE . RETAIL . SALES .SPACE. DEMO . KEY . COST . SALES . \$\$\$\$ .COMMISS. REQ .QUANTITY. DEMO RESULTS \* TYPE а а a а а аØ

The result displays the averages at the end of the report:

LINE 230 PSWD▷ "RESULT" ▷ **FMT**<sub>P</sub> RLb -SHFT₽ HLD CHR> HLD LN♭ GREENBOX9 Κ 15300 19125 26775 2677.50 280 4 . AVERAGE . PRODUC COST = 14200WHOLE SALES = 17750 RETAIL = 24850 SALES COMMÍSS = 2485 SPACE REQ = 190 DEMO .... END REPORT ..... 

The lines in the previous result are temporary, but they are displayed at the end of the result as long as you continue to use this result for other TOTALIZE functions.

#### NOTE:

Averaging is a vertical calculation; you cannot use a horizontal operation when you use this function.

## **8.5. SUBTOTALING**

Subtotals are sums of data for groups of related lines. The TOTALIZE function groups these lines by a key field. Before you use subtotaling, sort the report or result by a key field. Then, use subtotaling to calculate subtotals for another field. The subtotals are displayed each time the key field changes.

You can subtotal up to 16 fields, but you can subtotal only one level at a time (i.e., only one key field). To subtotal further levels, you must call the TOTALIZE function from the result on display.

The TOTALIZE function lists data lines in sequence until the key field (S in the function mask) changes. The function then inserts subtotal lines as comment lines, identifies the key field, and sums the totalize fields (the + fields in the function mask).

NOTE:

## The key field cannot exceed 24 columns.

To subtotal, key in TOT 1C and press the XMIT key to display the function mask. In the function mask, key in a plus sign (+) in the fields you want to totalize and an S in the SUB KEY field. You can key in a plus sign in up to 16 fields to calculate multiple subtotals in one request.

The following example calculates subtotals for the DEMO QUANTITY field each time the SUB KEY field changes.

The following result displays a separate subtotal line after each group of data lines with the same key field:

LINE 12 .DATE 83/	FMT> RL> D6/24 13:10:51	SHFT TYPE=C BASE	°⊧ ∶RID	HLD CHR⊳ =001 82/08	HLD 8/11 J	DLN⊳ PSWD IDOE	▷ <sup>₽</sup> <sup>®</sup> RESULT <sup>®</sup> ▷ < 46 LINES >
* PRODUCT	. SUB . PRODUC .	WHOLE .	RETAI	L . SALES	. SPACE .	DEMO .	
* TYPE	. KEY . COST .	SALES .	\$\$\$\$	.COMMISS	. REQ .	QUANTITY. DE	MO RESULTS .
BI ACKBOXI		16875	236	25 2362 50	. = = = = = . 3 0 0	1	
BLACKBOX2	A 13600	17000	238	00 2380.00	110	2	
BLACKBOX3	A 13700	17125	239	75 2397.50	120	4	
. SUB-TOTAL	SUB KEY	=	A				
. DEMO	QUANTITY = 7						
BLACKBOX4	B 13800	17250	241	50 2415.00	130	10	× ×
BLACKBOX5	B 13900	17375	243	25 2432.50	140	50	
SUB-TOTAL		=	в				
	QUANTITI = 60	17500	245	00 2450 00	150	100	
BI ACKBOX7	C 14100	17625	246	75 2467 50	160	10	
SUB-TOTAL	SUB KEY	=	с 1.0		100	••	
DEMO	OUANTITY = 110		-				
BLACKBOX8	D 14200	17750	248	50 2485.00	170	20	
BLACKBOX9	D 14300	17875	250	25 2502.50	180	40	
. SUB-TOTAL	SUB KEY	=	D				
. DEMO	QUANTITY = 60						
GREENBOX1	E 13700	17125	239	75 2397.50	200	80	

## 8.6. CUMULATION

Cumulation is the process of repeatedly adding the quantity from one or more fields to a total (cumulative) in another field, and then saving the total.

You can also perform subcumulation, or cumulation until a key field value changes, so that the result yields two result fields.

To use cumulation, first key in TOT 1C and press the XMIT key to display the function mask. In the function mask, key a C in the field to contain the cumulative figures, and key arithmetic symbols in fields used to compute the cumulative result. The format is the same as for horizontal arithmetic, except that a C replaces the equal sign.

In the following example, the numeric entries from the SPACE REQ field are cumulatively added and displayed in the DEMO RESULTS field:

The result displays the cumulative result or a running total of the computation in the C column:

LINED 10	FMT⊳	RL≬	SHFT	'o I	HLD CHR.	HLI	)LN⊳ P:	SWD& "PRESULT" >>
.DATE 83/0	6/24	13:13:21	TYPE=C	RID=0	01 82/08	3/11 3	IDOE	< 24 LINES>
	ORATE	FACTORS	BASE >>	>				
* PRODUCT .	SUB .	PRODUC.	WHOLE .	RETAIL	. SALES .	SPACE .	DEMO .	
* TYPE .	KEY .	. COST .	SALE\$ .	\$\$\$\$	.COMMISS.	REQ .	QUANTITY.	DEMO RESULTS .
*=========	====.	. = = = = = . =			. ======.	=====		**************
BLACKBOX1	A	13500	16875	23625	2362.50	100	1	100
BLACKBOX2	A	13600	17000	23800	2380.00	110	2	210
BLACKBOX3	À	13700	17125	23975	2397.50	120	4	330
BLACKBOX4	B	13800	17250	24150	2415.00	130	10	460
BLACKBOX5	B	13900	17375	24325	2432.50	140	50	600
BLACKBOX6	C	14000	17500	24500	2450.00	150	100	750
BLACKBOX7	C	14100	17625	24675	2467.50	160	10	910
BLACKBOX8	D	14200	17750	24850	2485.00	170	20	1080
BLACKBUX9	Ď	14300	1/8/5	25025	2502.50	180	40	1260
GREENBOXI	Ľ	13700	1/125	23975	2397.50	200	100	1460
GREENBUXZ	1 5	13900	1/3/5	24325	2432.50	210	160	1670
	L F	14100	17020	24070	240/.00	220	15	1090
	r c	14500	1010	25025	2502.50	230	10	2120
	U U	14300	18375	20370	2572 50	250	20	2300
	л т	14900	18675	26075	2607 50	260	2	2870
	. <u>1</u>	15100	18875	26425	2642 50	200	2	3140
GREENBOXO	ĸ	15300	19125	26775	2677 50	280	4	3420
		10000	10120	23770	20.1.00	200	•	0.20

#### 8.6.1. Group and Consecutive Cumulation

You can combine the cumulation process with the subtotal parameter (S) to calculate cumulative quantities for both subtotal fields and the entire report.

To use these functions together, display the appropriate function mask and key in:

- S to designate the subtotaling key field
- Plus sign (+) in the field you want to cumulate
- Equal sign (=) to designate the field where the cumulative subtotals are displayed
- C in the field where consecutive cumulations of the + fields are displayed without reference to the S field key. The C parameter is optional.

The following example calculates subcumulative figures from the SPACE REQ field and displays them in the DEMO QUANTITY field:

Consecutive cumulations appear in the DEMO RESULTS field. New subcumulative figures appear in the DEMO QUANTITY field each time the SUB KEY field changes:

LINE 12 DATE 83/0	FMT⊳ 6/24	RL⊅ 13+15+3	SHFT 9 TYPE≠C	> F	ILD CHR		LN♭ PSWD♭	PRESULT
. <<< CORPO * PRODUCT .	SUB	FACTORS	BASE >> WHOLE .	> RETAIL .	SALES .	SPACE.	DEMO .	
*=======		. ======.	3222222,2	======. \$\$\$\$\$	=======	=====.=:		EEEEEEEEEE
BLACKBOX1	A	13500	16875	23625	2362.50	100	100	100
BLACKBOX2	Α	13600	17000	23800	2380.00	110	210	210
BLACKBOX3	A	13700	17125	23975	2397.50	120	330	330
BLACKBOX4	В	13800	17250	24150	2415.00	130	130	460
BLACKBOX5	В	13900	17375	24325	2432.50	140	270	600
BLACKBOX6	C	14000	17500	24500	2450.00	150	150	750
BLACKBOX7	С	14100	17625	24675	2467.50	160	310	910
BLACKBOX8	D	14200	17750	24850	2485.00	170	170	1080
BLACKBOX9	D	14300	17875	25025	2502.50	180	350	1260
GREENBOX1	E	13700	17125	23975	2397.50	200	200	1460
GREENBOX2	E	13900	17375	24325	2432.50	210	410	1670
GREENBOX3	E	14100	17625	24675	2467.50	220	630	1890
GREENBOX4	F	14300	17875	25025	2502.50	230	230	2120
GREENBOX5	G	14500	18125	25375	2537.50	240	240	2360
GREENBOX6	Н	14700	18375	25725	2572.50	250	250	2610
GREENBOX7	I	14900	18625	26075	2607.50	260	260	2870
GREENBOX8	J	15100	18875	26425	2642.50	270	270	3140
GREENBOX9	K	15300	19125	26775	2677.50	280	280	3420

## **8.7. ENTRY COUNTING**

Entry counting counts the number of data entries in a field. You use entry counting in combination with other vertical calculations (vertical summation, averaging, subtotaling).

To perform entry counting, key in E above the function mask and the plus sign (+) in the field you want to use for the vertical calculation.

The next screen shows both vertical summation and entry counting:

The result displays the total for the PRODUC COST together with the number of entries:

	144	and the second se			
LINED 1212 FMTD	> RLØ -	SHFT⊳	HLD CHRD	HLD LN⊳ 6	PSWD& RESULT &
.DATE 83/06/24	13:18:01	TYPE=C RI	D=001 82/08	11 JDOE	< 28 LINES>
🔄 . <<< CORPORATE	E FACTORS H	BASE >>>			
* PRODUCT . SUB	.PRODUC. W	HOLE . RETA	IL . SALES .	SPACE. DEMO	
* TYPE . KEY	. COST . S	SALES . SSS	S. COMMISS.	REQ QUANTI	ry. Demo results .
*			===,======,		
BLACKBOX1 A	A 13500	16875 23	625 2362.50	100	1
BLACKBOX7 C	C 14100	17625 24	675 2467.50	160	10
BLACKBOX8 I	D 14200	17750 24	850 2485.00	170 2	20
BLACKBOX9 I	D 14300	17875 25	025 2502.50	180	40
GREENBOX1 E	E 13700	17125 23	975 2397.50	200	B0
GREENBOX2 E	E 13900	17375 24	325 2432.50	210 10	50
GREENBOX3 E	E 14100	17625 24	675 2467.50	220	5
GREENBOX4 F	F 14300	17875 25	025 2502.50	230	15
GREENBOX5 G	<b>3 14500</b>	18125 25	375 2537.50	240	25
GREENBOX6 H	H 14700	18375 25	725 2572.50	250	1
GREENBOX7 1	I 14900	18625 26	075 2607.50	260	2
GREENBOX8 C	J 15100	18875 26	425 2642.50	270	3
GREENBOX9 F	K 15300	19125 26	775 2677.50	280	4
••••••••••					
.GRAND-TOTAL -					
.ENTRIES = 1	18				
. PRODUC COST	= 255600				
		. END REPORT			

#### NOTE:

The results of averaging and vertical summation are displayed at the end of the report. To see the results, tab to the RL field and press the XMIT key to roll up the screen.

## 8.8. SEQUENCING

Sequencing is the sequential numbering of data lines. The sequence begins with the number 1 and increments by 1 for each successive line.

To use sequencing, key in TOT 1C and press the XMIT key to display the function mask. Then, key in E above the mask and C in the field where you want to sequence.

The following example sequences the SUB KEY field:

* PRODUCT . SUB .PRODUC. WHOLE . RETAIL . SALES .SPACE. DEMO . * TYPE . KEY . COST . SALES . \$\$\$\$ .COMMISS. REQ .QUANTITY. DEMO RESULTS	
**************************************	

The result is:

LINE» 1	FMT⊳	RL♭	SHFT	Þ	HLD CHR	HLI	LN⊳ F	SWD	"RESULT" >>
.DATE 83/0	6/24	11:37:2	1 TYPE=C	RID=0	01 82/08	11 J	DOE	<	24 LINES>
. <<< CORP	ORATE	FACTORS	BASE >>	>					
* PRODUCT .	SUB	. PRODUC .	WHOLE .	RETAIL	. SALES .	SPACE.	DEMO .		•
* TYPE .	KEY	. COST .	SALES .	<b>SSSS</b>	.COMMISS.	REQ .	QUANTITY.	DEMO	RESULTS .
***********	====	.=====.	*******	******	.=====.	=====.	~======,	= = = = = =	
BLACKBOX1	1	13500	16875	23625	2362.50	100	1		
BLACKBOX2	2	13600	17000	23800	2380.00	110	2		
BLACKBOX3	3	13700	17125	23975	2397.50	120	4		
BLACKBOX4	4	13800	17250	24150	2415.00	130	10		
BLACKBOX5	5	13900	17375	24325	2432.50	140	50		
BLACKBOX6	6	14000	17500	24500	2450.00	150	100		
BLACKBOX7	7	14100	17625	24675	2467.50	160	10		
BLACKBOX8	8	14200	17750	24850	2485.00	170	20		
BLACKBOX9	9	14300	17875	25025	2502.50	180	40		
GREENBOX1	10	13700	17125	23975	2397.50	200	80		
GREENBOX2	11	13900	17375	24325	2432.50	210	160		
GREENBOX3	12	14100	17625	24675	2467.50	220	5		
GREENBOX4	13	14300	17875	25025	2502.50	230	15		
GREENBOX5	14	14500	18125	25375	2537.50	240	25		
GREENBOX6	15	14700	18375	25725	2572.50	250	1		
GREENBOX7	16	14900	18625	26075	2607.50	260	2		
GREENBOX8	17	15100	18875	26425	2642.50	270	3		
GREENBOX9	18	15300	19125	26775	2677.50	280	4		

## 8.8.1. Numbering of Respective Groups

You can combine sequencing with the subtotal parameter (S) to sequence a field within a key group. The sequence number starts over at each change of key.

To use these parameters together, key in E as the option in the first line above the mask, key in an S parameter below the function mask to designate the key field, and key in an equal sign (=) in the field that receives the numbering.

In the following example, the SUB KEY field is the key field, and the PRODUC COST field receives the numbering:

The result is:

LINEÞ 1	FMT⊳	RL⊳	SHFT	f> 1	HLD CHRD	HLI	D LNÞ I	SWD	"RESULT""
.DATE 83/0	6/24 1	1:42:36	TYPE=(	C RID=0	01 82/08	3/11 3	JDOE	<	24 LINES>
. <<< CORP	ORATE F	ACTORS	BASE >>	<b>&gt;&gt;</b>					
* PRODUCT .	SUB . PI	RODUC.	WHOLE .	RETAIL	. SALES	SPACE	DEMO		
* TYPE .	KEY . (	COST .	SALES .	\$\$\$\$	COMMISS.	REQ	QUANTITY	DEMO	RESULTS .
*=========.	*****.**	=====.=	====::,:	=======	. = = = = = = .	=====	. ======.	. = = = = = =	
BLACKBOX1	A	1	16875	23625	2362.50	100	1		
BLACKBOX2	λ	2	17000	23800	2380.00	110	2		
BLACKBOX3	A	3	17125	23975	2397.50	120	4		
BLACKBOX4	В	1	17250	24150	2415.00	130	10		
BLACKBOX5	В	2	17375	24325	2432.50	140	50		
BLACKBOX6	Ç	1	17500	24500	2450.00	150	100		
BLACKBOX7	C	2	17625	24675	2467.50	160	10		
BLACKBOX8	D	1	17750	24850	2485.00	170	20		
BLACKBOX9	D	2	17875	25025	2502.50	180	40		
GREENBOX1	E	1	17125	23975	2397.50	200	80		
GREENBOX2	E	2	17375	24325	2432.50	210	160		
GREENBOX3	E	3	17625	24675	2467.50	220	5		
GREENBOX4	F	1	17875	25025	2502.50	230	15		
GREENBOX5	G	1	18125	25375	2537.50	240	25		
GREENBOX6	н	1	18375	25725	2572.50	250	1		
GREENBOX7	I	1	18625	26075	2607.50	260	2		
GREENBOX8	J	1	18875	26425	2642.50	270	3		
GREENBOX9	ĸ	1	19125	26775	2677.50	280	4		

## **8.9. NUMERIC ROUNDING**

You can produce results using horizontal arithmetic, vertical summation, averaging, subtotaling, and cumulation that are rounded normally, upward or downward.

To specify rounding, key in the R, U, or D option and the number of significant figures to which you can round the result. The R option performs standard rounding, the U option performs upward rounding, and the D option performs downward rounding.

Table 8–3 shows the 12 increments of rounding that you can use with the R, U, or D option.

r	_				
1	=	Nearest unit	.0	=	Nearest 10th
10	-	Nearest 10	.00	=	Nearest 100th
100	—	Nearest 100	.000	=	Nearest 1000th
1000		Nearest 1000	.0000	=	Nearest 10,000th
10000		Nearest 10,000	.00000	=	Nearest 100,000th
100000	-	Nearest 100,000	.000000	=	Nearest 1,000,000th

Tahle	8-3	Twelve	Increments	of	Roundina	Used	with	R.	U.	and	D	Options
i abie	00.	1 100100	moromonio	0,	nounding	0300	*****	•••	υ,	unu	~ `	ophonis

To use the R option:

- Display the function mask for the report you want to process.
- Key in an R, U, or D and the unit of rounding above the mask.
- Press the TAB key to place the cursor beneath the function mask.
- Key in the parameters for the arithmetic or move operations. Specify the fields to round with an equal (=) sign.

To display the function mask for rounding figures in report 1C, key in TOT 1C and press the XMIT key.

In the following example, round the figure in the RETAIL \$\$\$\$ field to the nearest thousand (e.g., 24000=24) and display it in the DEMO RESULTS field:

r1000 \* PRODUCT . SUB .PRODUC. WHOLE . RETAIL . SALES .SPACE. DEMO . \* TYPE . KEY . COST . SALES . \$\$\$\$ .COMMISS. REQ .QUANTITY. DEMO RESULTS =Ø +

The result is:

LINE 10	<b>FMT</b> ⊳	RL	SHFT	Þ	HLD CHR	HLD		WD& "RESULT" >>
DATE 83/	06/24	11:45:24	TYPE=C	RID=0	01 82/08	3/11 J	DOE	< 24 LINES>
. <<< COR	PORATE	FACTORS	BASE >>	>				
* PRODUCT	SUB	PRODUC.	WHOLE .	RETAIL	SALES	SPACE.	DEMO .	
* TYPE	. KEY	. COST .	SALES .	SSSS	.COMMISS	REO .	QUANTITY.	DEMO RESULTS
*========	.=====	. =====.	=======		. = = = = = = = .	=====.		
BLACKBOX1	A	13500	16875	23625	2362.50	100	1	24
BLACKBOX2	A	13600	17000	23800	2380.00	110	2	24
BLACKBOX3	A	13700	17125	23975	2397.50	120	4	24
BLACKBOX4	В	13800	17250	24150	2415.00	130	10	24
BLACKBOX5	В	13900	17375	24325	2432.50	140	50	24
BLACKBOX6	C	14000	17500	24500	2450.00	150	100	25
BLACKBOX7	C	14100	17625	24675	2467.50	160	10	25
BLACKBOX8	D	14200	17750	24850	2485.00	170	20	25
BLACKBOX9	D	14300	17875	25025	2502.50	180	40	25
GREENBOX1	E	13700	17125	23975	2397.50	200	80	24
GREENBOX2	Ε	13900	17375	24325	2432.50	210	160	24
GREENBOX3	E	14100	17625	24675	2467.50	220	5	25
GREENBOX4	F	14300	17875	25025	2502.50	230	15	25
GREENBOX5	G	14500	18125	25375	2537.50	240	25	25
GREENBOX6	Н	14700	18375	25725	2572.50	250	1	26
GREENBOX7	I	14900	18625	26075	2607.50	260	2	26
GREENBOX8	J	15100	18875	26425	2642.50	270	3	26
GREENBOX9	K	15300	19125	26775	2677.50	280	4	27
<u>=</u>								





You can use two methods to round below the decimal point:

- 1. Create the result containing the decimal numbers, call the function mask, and perform the rounding on the result.
- 2. Create the decimal numbers and round in the same operation.

The first method requires two steps: creating the decimal numbers and then rounding them. For example, the following function mask divides the figures in the RETAIL \$\$\$ field by 1000000 and places the result in the DEMO QUANTITY field:

The following result screen contains the computed decimal numbers:

LINEÞ 1	FMT⊳	RLD	SHFT	6 I	ILD CHR	HLI	) LNÞ	PSWD0	""RESULT"" ▶
.DATE 83/0	)6/24	12:38:3	8 TYPE=C	RID=00	01 82/08	3/11 J	IDOE	<	24 LINES>
. <<< CORE	PORATE	FACTORS	BASE >>	>					
* PRODUCT .	. SUB .	PRODUC .	WHOLE .	RETAIL	. SALES .	. SPACE .	DEMO		• .
* TYPE .	. KEY .	. COST .	SALES .	\$\$\$\$	COMMISS.	. REQ .	QUANTITY	. DEMC	RESULTS .
**********	. = = = = .	.=====:		=======	. = = = = = = .	=====			
BLACKBOX1	A	13500	16875	23625	2362.50	100	0.023625	5	
BLACKBOX2	A	13600	17000	23800	2380.00	110	0.0238	3	
BLACKBOX3	A	13700	17125	23975	2397.50	120	0.023975	5	
BLACKBOX4	В	13800	17250	24150	2415.00	130	0.02415	5	
BLACKBOX5	В	13900	17375	24325	2432.50	140	0.024325	5	
BLACKBOX6	С	14000	17500	24500	2450.00	150	0.0245	5	
BLACKBOX7	С	14100	17625	24675	2467.50	160	0.024675	5	
BLACKBOX8	D	14200	17750	24850	2485.00	170	0.02485	5	
BLACKBOX9	D	14300	17875	25025	2502.50	180	0.025025	5	
GREENBOX1	E	13700	17125	23975	2397.50	200	0.023975	5	
GREENBOX2	E	13900	17375	24325	2432.50	210	0.024325	5	
GREENBOX3	E	14100	17625	24675	2467.50	220	0.024675	5	
GREENBOX4	F	14300	17875	25025	2502.50	230	0.025025	5	
GREENBOX5	G	14500	18125	25375	2537.50	240	0.025375	5	
GREENBOX6	Н	14700	18375	25725	2572.50	250	0.025725	5	
GREENBOX7	I	14900	18625	26075	2607.50	260	0.026075	5	
GREENBOX8	J	15100	18875	26425	2642.50	270	0.026425	5	
GREENBOX9	K	15300	19125	26775	2677.50	280	0.026775	5	

Next, key in TOT – in line 0 and press the XMIT key to display the function mask. The specifications in the following function mask:

- round the decimal results in the DEMO QUANTITY field of the previous result to three decimal places; and
- display them in the DEMO RESULTS field.

The result is:

LINEÞ 1	<b>FHT</b> Þ	RL⊳	SHFT	Þ H	HLD CHR.	HLD LN⊳	PSWD⊳	"RESULT" >
.DATE 83/0	06/28	14:32:18	B TYPE=C	RID=0(	01 82/08	B/11 JDOE	<	24 LINES>
	PORATE	FACTORS	BASE >>	>				
* PRODUCT	. SUB	. PRODUC .	WHOLE .	RETAIL .	SALES	SPACE. DEMO		
* TYPE	. KEY	. COST .	SALE\$ .	\$\$\$\$	.COMMISS.	. REQ .QUANTI1	Y. DEMO	) RESULTS .
*========	. = = = = =	.=====.	*******		. = = = = = = = .	.=====.=.		
BLACKBOX1	A	13500	16875	23625	2362.50	100 0.02362	25	0.024
BLACKBOX2	A	13600	17000	23800	2380.00	110 0.023	38	0.024
BLACKBOX3	A	13700	17125	23975	2397.50	120 0.0239	75	0.024
BLACKBOX4	В	13800	17250	24150	2415.00	130 0.0243	5	0.024
BLACKBOX5	В	13900	17375	24325	2432.50	140 0.02432	25	0.024
BLACKBOX6	С	14000	17500	24500	2450.00	150 0.024	15	0.025
BLACKBOX7	C	14100	17625	24675	2467.50	160 0.0246	75	0.025
BLACKBOX8	D	14200	17750	24850	2485.00	170 0.0248	35	0.025
BLACKBOX9	D	14300	17875	25025	2502.50	180 0.02502	25	0.025
GREENBOX1	E	13700	17125	23975	2397.50	200 0.0239	75	0.024
GREENBOX2	E	13900	17375	24325	2432.50	210 0.0243	25	0.024
GREENBOX3	E	14100	17625	24675	2467.50	220 0.0246	75	0.025
GREENBOX4	· F	14300	17875	25025	2502.50	230 0.02502	25	0.025
GREENBOX5	G	14500	18125	25375	2537.50	240 0.0253	75	0.025
GREENBOX6	H	14700	18375	25725	2572.50	250 0.0257	25	0.026
GREENBOX7	I	14900	18625	26075	2607.50	260 0.0260	75	0.026
GREENBOX8	J	15100	18875	26425	2642.50	270 0.0264	25	0.026
GREENBOX9	K	15300	19125	26775	2677.50	280 0.0267	75	0.027

The second method of rounding prepares and rounds the numbers in one step. The following example uses only one operation to calculate the same results in the DEMO RESULTS field as in the previous example:

### 8.9.1. Rounding Down

The D option performs downward rounding. Specify the D option in the same way as the R option (8.9).

For example, use the D option in the following function mask to round down the figure in the RETAIL \$\$\$\$ field to the nearest thousand (1000) and display it in the DEMO RESULTS field:

d1000		
* PRODUCT . SUB .PRODUC.	WHOLE . RETAIL . SALES . SPACE	. DEMO
* TYPE . KEY . COST .	SALES . \$\$\$\$ .COMMISS. REQ	.QUANTITY. DEMO RESULTS .
*********	******	· ******** ***************************
	+	<b>=</b> Ø
		3

The result is:

LINE> 1 .DATE 83/C . <<< CORF * PRODUCT . * TYPE .	FNT> 08/10 ORATE SUB KEY	RL⊳ 15:41:11 FACTORS .PRODUC. . COST .	SHF' 5 TYPE=( BASE > WHOLE . SALE\$ .	T⊳ C RID=0 >> RETAIL \$\$\$\$	HLD CHR 01 83/07 . SALES . .COMMISS	HLI 7/22 3 SPACE . REQ	DLN⊳ PSWI DDOE DEMO QUANTITY. DE	<pre>&gt;&gt; "RESULT" &gt;&gt; &lt; 24 LINES&gt; HO RESULTS</pre>
BLACKBOX1	λ	13500	16875	23625	2362.50	100	1	23
BLACKBOX2	Ä	13600	17000	23800	2380.00	110	2	23
BLACKBOX3	λ	13700	17125	23975	2397.50	120	4	23
BLACKBOX4	B	13800	17250	24150	2415.00	130	10	24
BLACKBOX5	B	13900	17375	24325	2432.50	140	50	24
BLACKBOX6	Ē	14000	17500	24500	2450.00	150	100	24
BLACKBOX7	Č	14100	17625	24675	2467.50	160	10	24
BLACKBOX8	Ď	14200	17750	24850	2485.00	170	20	24
BLACKBOX9	D	14300	17875	25025	2502.50	180	40	25
GREENBOX1	E	13700	17125	23975	2397.50	200	80	23
GREENBOX2	E	13900	17375	24325	2432.50	210	160	24
GREENBOX3	E	14100	17625	24675	2467.50	220	5	24
GREENBOX4	F	14300	17875	25025	2502.50	230	15	25
GREENBOX5	G	14500	18125	25375	2537.50	240	25	25
GREENBOX6	H	14700	18375	25725	2572.50	250	1	25
GREENBOX7	I	14900	18625	26075	2607.50	260	2	26
GREENBOX8	J	15100	18875	26425	2642.50	270	3	26
GREENBOX9	K	15300	19125	26775	2677.50	280	4	26

## 8.9.2. Rounding Up

The U option performs upward rounding. Specify the U option in the same way as the R or D options (8.9).

For example, the U option in the following example rounds up the figure in the RETAIL \$\$\$\$ field to the nearest thousand (1000) and displays it in the DEMO RESULTS field:

			and the second se					
the second se								
	*** ******							
	- <b>NNNNM</b>	~~~~	<u> </u>					
	T PPHINT	SIIM						-
	P FRUDUCI .					. DEENA .		-
								-
	- mynn	12732	~~~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	X 117 M H		111557			()   A A	10.00 00.000 00.00	
					- CATHLE DATE INLA			
_								-
_								
			*****					
				-	-			-
							<i></i>	-
	مل	ملله ملك ملك ملك ملك	ملله ملله ملله عليه ملله ملله	یل بل جل بل بل بل بل جل جل جل مل طرحات بل بل مان جل	ا مان مان مان مان مان ا مان مان مان مان	ه ماه ماه ماه ماه ماه ماه ماه ماه ماه	یں بلے	-
		***	*****		* ******* ****			
-								
Contraction of the								
- Andrewson and the second sec				<b></b>			E 1 / 1	
AND DESCRIPTION OF				<b>T</b>			- • •	
and the second se								
								and the second s

The result is:

LINE» 1	FMT 👂	RL♭	SHFT	<b>&gt;</b>	HLD CHR	HLD	LNÞ E	SWD .	"RESULT" " ▶
.DATE 83/	08/10	15:37:3	B TYPE=C	RID=0	01 83/07	7/22 J	DOE	<	24 LINES>
. <<< COR	PORATE	FACTORS	BASE >>:	>					
* PRODUCT	. SUB	.PRODUC.	WHOLE . I	RETAIL	. SALES	SPACE.	DEMO		
* TYPE	. KEY	. COST .	SALES .	SSSS	.COMMISS.	. REQ .	QUANTITY.	. DEMO	) RESULTS .
*********	. = = = = =				. = = = = = = = .		********	. = = = = = =	
BLACKBOX1	λ	13500	16875	23625	2362.50	100	1		24
BLACKBOX2	A	13600	17000	23800	2380.00	110	2		24
 BLACKBOX3	A A	13700	17125	23975	2397.50	120	4		24
BLACKBOX4	В	13800	17250	24150	2415.00	130	10		25
BLACKBOX5	B	13900	17375	24325	2432.50	140	50		25
BLACKBOXE	C	14000	17500	24500	2450.00	150	100		25
BLACKBOX7	C	14100	17625	24675	2467.50	160	10		25
 BLACKBOX8	D	14200	17750	24850	2485.00	170	20		25
BLACKBOX9	) D	14300	17875	25025	2502.50	180	40		26
GREENBOX1	Ē	13700	17125	23975	2397.50	200	80		24
GREENBOX2	E	13900	17375	24325	2432.50	210	160		25
GREENBOX3	E	14100	17625	24675	2467.50	220	5		25
GREENBOX4	F	14300	17875	25025	2502.50	230	15		26
GREENBOXS	G	14500	18125	25375	2537.50	240	25		26
GREENBOX6	H	14700	18375	20/20	20/2.00	250	1		20
GREENBOX7		14900	10020	200/0	2007.00	200	4		27
GREENBOX	J	10100	100/0	20420	4044.0U	2/0	3		27
GREENBOXS	ĸ	19300	19129	20//5	20//.50	280	-		41

## 8.10. MOVING FIELDS OF DATA

To move data from one field to another, key in TOT 1C and press the XMIT key to display the function mask.

NOTE:

When you move data, the issuing and receiving fields must be of the same length. If they are not the same length, you can correct that by deleting the leading asterisks under the field headers of the longer field. In the function mask, key in an M in the field you want to move and an equal sign (=) in the field receiving the data. The specifications you key in the following function mask moves the data in the RETAIL \$\$\$\$ field to the DEMO QUANTITY field:

In the result, the issuing and receiving fields (RETAIL \$\$\$\$ and DEMO QUANTITY) contain identical data:

LINE 10	FMT⊳	RL♭	SHFT	'> I	HLD CHRÞ	HLD	LND E	SWD	RESULT
.DATE 83/0	6/24	12:46:59	) TYPE=C	: RID=00	01 82/08	3/11 J	DOE	<	24 LINES>
. <<< CORP	ORATE	FACTORS	BASE >>	>					
* PRODUCT .	SUB	. PRODUC .	WHOLE .	RETAIL	. SALES .	SPACE .	DEMO	-	
* TYPE .	KEY .	. COST .	SALE\$ .	\$\$\$\$	.COMMISS.	REQ .	QUANTITY.	. DEMO	RESULTS .
*=======.	====	. = = = = = . =			. = = = = = = .	.=====.	z======,	. = = = = = = =	
BLACKBOX1	A	13500	16875	23625	2362.50	100	23625		
BLACKBOX2	A	13600	17000	23800	2380.00	110	23800		
BLACKBOX3	A	13700	17125	23975	2397.50	120	23975		
BLACKBOX4	В	13800	17250	24150	2415.00	130	24150		
BLACKBOX5	В	13900	17375	24325	2432.50	140	24325		
BLACKBOX6	C	14000	17500	24500	2450.00	150	24500		
BLACKBOX7	С	14100	17625	24675	2467.50	160	24675		
BLACKBOX8	D	14200	17750	24850	2485.00	170	24850		
BLACKBOX9	D	14300	17875	25025	2502.50	180	25025		
GREENBOX1	E	13700	17125	23975	2397.50	200	23975		
GREENBOX2	E	13900	17375	24325	2432.50	210	24325		
GREENBOX3	E	14100	17625	24675	2467.50	220	24675		
GREENBOX4	F	14300	17875	25025	2502.50	230	25025		
GREENBOX5	G	14500	18125	25375	2537.50	240	25375		
GREENBOX6	Н	14700	18375	25725	2572.50	250	25725		
GREENBOX7	I	14900	18625	26075	2607.50	260	26075		
GREENBOX8	J	15100	18875	26425	2642.50	270	26425		
GREENBOX9	K	15300	19125	26775	2677.50	280	26775		

## 8.11. FILLING FIELDS

You can specify values to fill fields throughout a report or result. This feature of the TOTALIZE function is especially useful with the SEARCH UPDATE or MATCH UPDATE function. You can fill in dates, status codes, and dollar amounts in the result for updating the report.

To fill fields, display the function mask of the report you want to use. In the function mask, key in an equal sign (=) in the first column of the field you want to fill. All spaces remaining in the field, including the space before the next field, are significant; that is, because the equal sign occupies the first column of the field, the space preceding the next field is included as part of the parameter field. To right justify a value, key in its rightmost number in the space preceding the next field.

In the following example, the SPACE REQ field is filled with 500, and the DEMO QUANTITY field is filled with zeros. To right justify 500 in the SPACE REQ field, key in 50 below the last two asterisks and key in the remaining zero in the space preceding the DEMO QUANTITY field:

The result is:

LINE 1	FMTD	RLp	SHFT	Þ I	ILD CHRD	HLD LND	PSWDD	"RESULT" >
. UAIL 03/0	0/24 00 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	14:49:4	DACE	RID=00	JI 82/08	S/II JDOE	۲	24 LINES>
	CIID	PRODUC		/ DEWATI	CNIEC	SDACE DE	MO	
	KEA .	COST	SALES	CCCC	COMMISS.	DEACE, DE	חט . ידידיע הביאו	
			JALLŞ . 19999555 -			. KEQ .QUAN		U RESULIS .
BLACKBOX1	Δ	13500	16875	23625	2362 50	500 0000	0000	
BLACKBOX2	Ä	13600	17000	23800	2380.00	500 0000	0000	
BLACKBOX3	Ä	13700	17125	23975	2397.50	500 0000	0000	
BLACKBOX4	B	13800	17250	24150	2415.00	500 0000	0000	
BLACKBOX5	B	13900	17375	24325	2432.50	500 0000	0000	
BLACKBOX6	С	14000	17500	24500	2450.00	500 0000	0000	
BLACKBOX7	C.	14100	17625	24675	2467.50	500 0000	0000	
BLACKBOX8	D	14200	17750	24850	2485.00	500 0000	0000	
BLACKBOX9	D	14300	17875	25025	2502.50	500 0000	0000	
GREENBOX1	E	13700	17125	23975	2397.50	500 0000	0000	
GREENBOX2	E	13900	17375	24325	2432.50	500 0000	0000	
GREENBOX3	E	14100	17625	24675	2467.50	500 0000	0000	
GREENBOX4	F	14300	17875	25025	2502.50	500 0000	0000	
GREENBOX5	G	14500	18125	25375	2537.50	500 0000	0000	
	н	14/00	18375	25725	25/2.50	500 0000	0000	
	I T	14900	10025	260/5	2607.50	500 0000	0000	
	J 12	15100	100/0	20420	2042.00	500 0000	0000	
	K	15500	17120	20110	2077.00	500 0000	0000	

You can delete or add asterisks in the mask when you want to control the filling of characters in a field. When you add asterisks, the end of the field is represented by the last asterisk.

To fill a field with spaces, key in an equal sign in the first position of the field.

NOTE:

You can fill more than one field at a time in the function mask, but you cannot use the move function with other arithmetic functions.

## 8.12. MISCELLANEOUS OPTIONS (I, O, V, AND T OPTIONS)

In addition to the options already described, there are several others available with the TOTALIZE function: the I, O, V, and T options.

## 8.12.1. I Option

The I option eliminates the captions on the results of averaging, subtotaling, and vertical summation. For example, when you add the I option to the specifications in the mask from 8.5, the captions for the subtotals are eliminated in the subsequent result screen:

The following result screen does not contain subtotal captions:

LINE 1 .DATE 83/0	FMT⊳ 6/28	RL⊅ 14:18:1 FACTOPS	SHF1 7 TYPE=(	C⊳ C RID=0	HLD CHR⊳ 01 82/08	HL1 11	DLN⊳ I JDOE	PSWD⊳ ≺	TRESULT	
* PRODUCT .	SUB	.PRODUC.	WHOLE .	RETAIL	. SALES .	SPACE	DEMO	•		
* TYPE .	KEY	. COST .	SALEŞ .	\$\$\$\$	.COMMISS.	REQ	QUANTITY	. DEMO	RESULTS	•
	22222	12500	10075	2222222	.======.	=====	,=========	. = = = = =		•
	А Д	13600	17000	23800	2380 00	110	2			
BLACKBOX3	Â	13700	17125	23975	2397 50	120	4			
.SUB-TOTAL	~	À		20070	2007.00	120	-			
. 7										
BLACKBOX4	В	13800	17250	24150	2415.00	130	10			
BLACKBOX5	В	13900	17375	24325	2432.50	140	50			
.SUB-TOTAL		В								
. 60	~									
	C	14000	17500	24500	2450.00	150	100			
	C	14100	1/625	240/5	2467.50	160	10			
110		C								
BLACKBOX8	D	14200	17750	24850	2485.00	170	20			
BLACKBOX9	D	14300	17875	25025	2502.50	180	40			
.SUB-TOTAL	_	D								
. 60		_								100 PERSONAL PROPERTY AND ADDRESS ADDRES
GREENBOX1	E	13700	17125	23975	2397.50	200	80			

## 8.12.2. O Option

The O option omits all data from the result, except subtotal and grand total information.

The following example uses the O option with the mask from 8.3:

The result displays only the grand totals:

LINEÞ 1 **FMT**Þ RL⊳ SHFT> HLD CHR+ HLD LN> PSWD<sub>b</sub> "RESULT" >>> .DATE 83/06/24 12:54:03 TYPE=C RID=001 82/08/11 14 LINES> JDOE ۲ CORPORATE FACTORS BASE >>> **< < <** PRODUCT . SUB .PRODUC. WHOLE . RETAIL . SALES .SPACE. DEHO . TYPE . KEY . COST . SALES . \$\$\$\$ .COMMISS. REQ .QUANTITY. DEMO RESULTS \* .GRAND-TOT COST = 255600 PRODUC WHOLE SALE\$ = 319500 RETAIL \$\$\$\$ = 447 SALES COMMISS = 44730 = 447300SPACE REQ = 3420DEMO  $\tilde{Q}UANTITY = 532$ ..... END REPORT .....

### 8.12.3. V Option

The V option displays averages, subtotals, and grand totals horizontally under their respective report headings.

The V option is effective with vertical summation, averaging, and subtotaling functions. In addition, you can combine the V option with the E, O, T, R, U, or D options. Note that when you combine the V and T options, vertical summation, averaging, and subtotaling display lines are displayed as tab lines. The following example add the V option to the function mask from 8.3:

PRODUCT . SUB .PRODUC. WHOLE . RETAIL . SALES .SPACE. \* DEMO \$\$\$\$ .COMMISS. REQ .QUANTITY. DEMO RESULTS \* KEY . COST . SALE\$ TYPE . \*========= ---------.=======.===.====.===== -----+Ø

This result displays the grand totals on one line:

					<u></u>			
LINED 10	FMT⊳	RLo -	SHF	TÞ ł	HLD CHR	HLI	LND 6 PSWI	)» ""RESULT""»
.DATE 83/0	6/24	12:55:4	4 TYPE=	C RID=0	01 82/08	3/11 J	IDOE	< 26 LINES>
. <<< CORP	ORATE	FACTORS	BASE >	>>				
* PRODUCT .	SUB .	PRODUC.	WHOLE .	RETAIL	. SALES .	SPACE.	DEMO .	•
🛛 🗶 TYPE .	KEY .	. COST .	SALES .	\$\$\$\$	COMMISS.	REQ .	QUANTITY. DE	EMO RESULTS .
**********	====	. = = = = = . :			. = = = = = = .			
BLACKBOX1	A	13500	16875	23625	2362.50	100	1	
BLACKBOX5	В	13900	17375	24325	2432.50	140	50	
BLACKBOX6	C	14000	17500	24500	2450.00	150	100	
BLACKBOX7	C	14100	17625	24675	2467.50	160	10	
BLACKBOX8	D	14200	17750	24850	2485.00	170	20	
BLACKBOX9	D	14300	17875	25025	2502.50	180	40	
GREENBOX1	E	13700	17125	23975	2397.50	200	80	
GREENBOX2	E	13900	17375	24325	2432.50	210	160	
GREENBOX3	E	14100	17625	24675	2467.50	220	,5	
GREENBOX4	r	14300	17875	25025	2502.50	230	15	
GREENBOX5	G	14500	18125	25375	2537.50	240	25	
GREENBUXD	H	14/00	18375	25/25	25/2.50	250	1	
GREENBOX/	I T	14900	10025	20075	2607.50	200	2	
GREENBOAO	J	15100	100/5	20423	2042.30	2/0	3	
CKELNDUX9	ĸ	19200	19179	20//5	2011.00	200	4	
		255600	210500	447200	44720	2420	<b>F</b> 32	
SKAND-TUT		200000	212200	11/300 FDADT	44/30	3420	002	
		•••	LND K		• • •			

The caption of the display line appears in the first field that does not contain parameter specifications. In addition, the caption fills but does not exceed the number of character positions in the field where it appears. For example, the caption GRAND-TOT from the previous result (8.12.3) is displayed in the PRODUCT TYPE field because that is the first field with no parameters. GRAND-- would appear in the PRODUC COST field if that is the first field with no parameters; GRAND-TOTAL would appear in the DEMO RESULTS field if that is the first field with no parameters.

If you specify parameters in all fields, no caption is displayed.

Only the following captions are displayed in a result (assuming there are available columns):

Display Line	Caption
Vertical summation	GRAND-TOTA
Averaging	AVERAGE
Subtotaling	SUB-TOTAL
Number of entries	ENTRIES

When you specify the V option, the order of lines displayed at the end of the report is:

- 1. Separator (blank) lines
- 2. Vertical summation, averaging, and subtotaling display lines

When you specify the V and E options together, the order of lines displayed at the end of the report is the same, except they are followed by the number of entry display lines.

#### 8.13. DISPLAYING CALCULATION RESULTS

The following principles describe how the results from the TOTALIZE function are displayed:

Significant figures

The maximum number of significant figures displayed is 15. The maximum number of columns for a calculation result, including the sign (for a negative value only) and decimal point, is 17.

Right and left justification of displays

The following displays are left-justified (no specification of option V):

- Vertical summation totals and subtotaling result lines
- Entry counting display lines
- Averaging display lines

The following fields are right-justified:

- The results of horizontal arithmetic calculations
- The results of cumulation operations
- The numbers from sequencing operations

Small receiving fields for results

Actual results are displayed in all cases except when:

- The result is larger than the size of the field containing it.

An asterisk is placed in the first column of the result field and the remaining columns are filled with the result, beginning with the most significant digit. The \* indicates that the entire result cannot be displayed.

Example:

If the result of the operation is 12345678 (eight digits) and the result field is only five columns long, the result is displayed as \*1234.

 The whole number portion of the result is equal to the size of the field containing it.

In this case, the decimal portion of the result is omitted from the display, but the whole numbers are displayed.

Example:

If the result of the operation is 1234.5678 (eight significant digits, including four whole numbers) and the result field is four columns long, the result is displayed as 1234.

 The whole number portion of the result is smaller than the size of the field containing it.

In this case as much of the result as will fit in the field is displayed.

Example:

The result of the operation is 1234.5678.

Number of Columns	Displayed result
5	1234.
6	1234.5
7	1234.56
8	1234.567

 The whole number portion of the result is larger than the size of the field containing it.

In this case the result, 1234.5678, is displayed as \*12.

Division by 0

When you divide by 0, the result field (=) is filled with asterisks.

Example:

If you divide by 0, the result field contains \*\*\*\*\*\*.

# 9. Printing Functions

#### 9.1. PRINT FUNCTION (PR)

Use the PRINT function to print reports or results on the system printer.

To call the PRINT function, key in PR and press the XMIT key. Figure 9–1 shows the PRINT function request screen.

This function places the designated report or result on queue at the system printer. Then, the user logo is displayed.



NOTES:

- () Specify the RID number of the report you want to print. To specify a displayed report or result, key in a minus (-) sign.
- (2) Specify the report or result alphabetic form type.
- 3 Specify the format that you want to use for printing the report. When you leave this field blank, format 0 is printed.
- (4) Specify the number of spaces between each line. You can specify 1 to 9 spaces, where 1 is single spacing, 2 is double spacing, and so on. When you leave this field blank, the report is single spaced.

Figure 9-1. PRINT Function Request Screen

## 9.1.1. .EJECT Instruction

This instruction designates page breaks by keying in the character string .EJECT or EJECT in the first column of data in a report or result. This instruction advances the printer forms to the top of the next page, and printing resumes.

## 9.2. AUXILIARY FUNCTION (AUX)

The AUXILIARY function prints reports or results on the auxiliary printer specified in the AUX device parameter of the AUX function request screen.

To call this function and display the AUXILIARY function request screen, key in AUX and press the XMIT key. Figure 9–2 shows the AUXILIARY function request screen.

When you use the AUXILIARY function, the report or result is placed in the queue at the printer and the user logo is displayed on the screen. You can queue up to 28 files to an auxiliary printer. If this number is exceeded, error 867 is displayed at the initiating workstation.

## NOTE:

You can use the EJECT or .EJECT instruction with the AUXILIARY function. Follow the same procedure used with the PRINT function (9.1.1).

	**************************************
	[ ENTER REQUESTED INFORMATION ]
)	REPORT NO.         ()         : '0' - '999' OR '-'           T Y P E         <>         : 'A' - 'I' (WHEN REPORT NO. IS '-', YOU CAN OMIT TYPE)           FORMAT         <>         : '1' - '6'
5 7 9	L PRINT PARAMETER J         AUX DEVICE        : 'PXX'         LINE NO. DELT        : 'Y' - PRINT WITHOUT LINE NO.         HEADER DELT        : 'Y' - HEADER IS DELETED         IST CHAR DELT        : 'Y' - IST CHARACTER IS DELETED         SPACING       : '1' - '9'         START CHAR NO.        : '1' - '132'
	[ ENTER NEW FUNCTION REQUEST ] FUNCTION < > PARAMETER < > S720

#### Figure 9-2. AUXILIARY Function Request Screen (Part 1 of 2)

NOTES:

- Specify the RID number of the report you want to print. Key in a minus sign (-) to specify a displayed report or result.
- Specify the alphabetic form type of the report or result.
- (3) Specify the format that you want to use for printing the report. When you leave this field blank, format 0 is printed.
- (4) Specify the name of the printer you want to use (pxx). Because you must specify a printer that is connected with the same MAPPER 80 job, consult with your MAPPER 80 coordinator for this information. When you leave this field blank, the report is printed on the printer connected to the requesting workstation.
- 5) Specify a Y in this line if you do not want each line numbered. When you leave this field blank, each line is assigned a 5-digit line number on the printout.
- (6) Specify a Y if you do not want headers printed. When you leave this field blank, headers are printed.
- (7) Specify a Y if you do not want the first symbol in each line printed (usually a symbol to indicate the line type).
- 8 Specify the number of spaces between each line. You can specify 1 to 9 spaces, where 1 is single spacing, 2 is double spacing, etc. When you leave this field blank, single spacing is assumed.
- (9) Specify the first character position of the report where you want printing to start. When you leave this field blank, printing begins from the first column of each line.

Figure 9–2. AUXILIARY Function Request Screen (Part 2 of 2)

#### 9.3. AUXILIARY SUSPEND FUNCTION (SX)

The AUXILIARY SUSPEND function discontinues printing on an auxiliary printer. You can use this command from any workstation, providing that both the workstation and the auxiliary printer are connected to the same MAPPER 80 job.

To call the AUXILIARY suspend function, key in:

SX Pxx

where:

Pxx

Is the auxiliary printer.

#### NOTE:

If you omit Pxx, the auxiliary printer that is physically attached to the requesting workstation is assumed.

The printing of other reports or results on the print queue continues when the AUXILIARY SUSPEND function finishes processing.

## 9.4. COP FUNCTION (COP)

The COP function prints MAPPER 80 reports or results on the auxiliary printer (COP) connected to a workstation.

The COP function differs from the AUXILIARY function (9.2) in three ways:

- 1. Only the printer connected to the workstation requesting the COP function receives the printout.
- 2. Because the data output to the COP is displayed on the screen of the workstation requesting the COP function, you cannot use another MAPPER 80 function until printing finishes.
- 3. Press the F2 function key to cancel the printing operation.

To call this function, key in COP and press the XMIT key. Figure 9–3 shows the COP function request screen.

NOTE:

You can use the EJECT or .EJECT instruction with the COP function. Follow the same procedure used with the PRINT function (9.1.1).

	**************************************
	[ ENTER REQUESTED INFORMATION ]
1 3 4 6 7 8	REPORT NO.       ()       : '0' - '999' OR '-'
	[ ENTER NEW FUNCTION REQUEST ] FUNCTION < > PARAMETER < > \$730

Figure 9–3. COP Function Request Screen (Part 1 of 2)

NOTES:

- (1) Specify the RID number of the report you want to print. Key in a minus sign (-) to specify a displayed report or result.
- (2) Specify the alphabetic form type of the report or result.
- 3 Specify the format that you want to use for printing the report. When you leave this field blank, format 0 is printed.
- (4) Specify a Y in this line if you do not want each line numbered. When you leave this field blank, each line is assigned a 5-digit column number on the printout.
- (5) Specify a Y if you do not want headers printed. When you leave this field blank, headers are printed.
- (6) Specify a Y if you do not want the first symbol in each line printed (usually a symbol to indicate the line type).
- (7) Specify the number of spaces between each line. You can specify 1 to 9 spaces where 1 is single spacing, 2 is double spacing, and so on. When you leave this field blank, the report is single spaced.
- 8 Specify the first character position of the report where you want printing to start. When you leave this field blank, printing begins from the first column of each line.

Figure 9-3. COP Function Request Screen (Part 2 of 2)

c3

.

# Appendix A. Summary of MAPPER 80 Manual Functions

Table A-1 lists and describes each manual function. Also, paragraph numbers are included for quick reference.

Function	Call	Description	Paragraph
ADD LINE	]+n	Adds line to a report or result	6.2.2
	]n+p	Adds predefined lines	6.2.2.2
ADD REPORT	AR	Creates a new report within a given report type	6.3.1
ADON *	ADON	Adds a report to another report or result	6.3.4
AUXILIARY	AUX	Prints out on auxiliary (COP) printer	9.2
AUXILIARY SUSPEND	sx	Discontinues printing operation on auxiliary printer	9.3
BINARY FIND	BF	Finds specified data using the binary division method	7.4
CHANGE •	CHG	Locates a character string and changes it to another character string	7.7
Column count	сс	Displays column numbers in a report or result as an aid in run design **	
COP	COP	Prints out on COP printer	9.4
DELETE RESULTS	DEL	Deletes lines after a search/match update	6.3.6
DELETE LINE	]n	Deletes lines from a report or result	6.2.4
DELETE REPORT	DR	Deletes a report from within a report type	6.3.5
DISPLAY	D	Displays a specified report or result	4.3
DUPLICATE LINE	]nx	Duplicates a line within a report or result	6.2.3
	]nxg	Duplicates a group of lines	6.2.3
DUPLICATE REPORT	XR	Duplicates a report or result	6.3.2

Table A-1. MAPPER 80 Functions Summary (Part 1 of 2)

#### Table A-1. MAPPER 80 Functions Summary (Part 2 of 2)

Function	Call	Description	Paragraph
Fast access		Specifies functions without using the function request screen	3.7.3
Field number	FLD	Displays field numbers on a report or result as an aid in run design **	
FIND	F	Displays a report in stages on the screen	7.2
INDEX *	I	Displays report type index	7.1
Line control	L	Redisplays lines 0 and 1 on the screen	2.3.4
	LL	Redisplays the last line of the report after an error display	2.3.5
MATCH •	MA	Matches (checks) two reports and extracts data	7.8
MATCH UPDATE *	MAU	Extracts matched data from a report	7.9
MODE	м	Specifies the mode to use	4.1
PREVIOUS RESULT DISPLAY	PRED	Displays the previous result on the screen	4.5
PRINT	PR	Prints out a report or result on the system printer	9.1
RELEASE	^	Terminates the function or display on the screen	4.4
REPLACE	REP	Replaces a report with another report or result	6.3.3
RESUME	RSM	Restarts an operation after a halt	7.3
ROLL BACK	RB	Cancels a line update and returns a report to its original condition	6.2.5
RUN	RUN	Activates the run**	
SEARCH *	s	Searches a report or result	7.5
SEARCH UPDATE *	S∪	Searches and extracts data from a report	7.6
SIGN OFF	x	User signal to end a MAPPER 80 session	3.4
SIGN ON		User signal to start a MAPPER 80 session	3.3
SOE UPDATE	$\triangleright$	Updates data within a report	6.2.1
SORT *	SORT	Sorts a report or result	7.10
TOTALIZE*	тот	Performs arithmetic calculations within a report or result	8.1
ТҮРЕ	т	Displays all form types within a mode	4.2
UPDATE RESULTS	UPD	Updates a report with search/match update data	6.3.7

\* Functions that produce a result

\*\* See MAPPER 80 run functions user guide, UP-9734 (current version) for details on these functions.

Table A-2 lists the names and parameters of the fast access method for each manual function.

Function	Fast Ac	cess Format
	Name	Parameters
ADD ON	ADON	r1t1,r2t2
ADD REPORT	AR	rt
BINARY FIND	BF	rt,f
CHANGE	CHG	rt
DISPLAY	D	rt,f
DELETE RESULTS	DEL	pw
FIND	F	rt,f
REPLACE	REP	r 1t 1, r 2t 2
SEARCH	s	rt,f
SEARCH UPDATE	SU	rt,f
SORT	SORT	rt,f
AUXILIARY SUSPEND	sx	рхх
TOTALIZE	тот	rt,f
UPDATE RESULTS	UPD	pw
DUPLICATE REPORT	XR	rt

Table A-2. MAPPER 80 Functions - Fast Access Method

#### LEGEND:

r,r1,r2	Indicate the RID number 0 to 999 or - (minus). Can be omitted.
t,t1,t2	Indicate the form type A to I. Can be omitted on - (minus) for RID number.
f	Modified format number 1 to 6. Can be omitted.
pw	Report password of one to six alphanumeric characters. Can be omitted.

pxx Printer name. pxx format. Can be omitted.

Table A-3 describes the manual function options and indicates the manual functions to which they apply.

Table	A3.	Option	Summary	Table
-------	-----	--------	---------	-------

Options	Purpose	BINARY FIND	FIND	CHANGE	MATCH/MATCH UPDATE	SEARCH	SEARCH UPDATE	TOTALIZE
А	Processes all line types		•	•		•	•	
D	Deletes search or match lines from the result				•		•	
Dn	Rounds down answer to nearest n							•
E	Counts number of entries							•
F	Processes the first column of the mask parameter as part of the character string			•				
F	Leaves original data in the receiving field of the unmatched lines				•			
н	Displays the header line of the initial report only of the multiple reports searched					•		
1	, Deletes the index and item name of the total, stubtotal, and average							•
м	Substitutes line type when a substitution occurs in the line			•				
м	Displays the matched lines only				•			
N	Displays data other than the specified parameter					•	•	
N	Displays the unmatched lines only				•			
0	Displays total, average, and subtotal lines only							•
Р	Indicates that the key field has been sorted				•			
٥	Stops search after the first find	•						
Rn	Rounds answer to nearest n							•
Rm-n	Searches multiple reports		•			•		
Sn	Specifies starting line number for scanning			•				
т	Displays total, average, and subtotal lines as tab lines when used in combination with the V option							•
Тх	Sets transparent character to x			•				
Un	Rounds up answer to nearest n							•
v	Displays total, average, and subtotal under each item header							•
@	Blank fields	•	•			•	•	
/	Processes slashes (/) as a part of the character string	٠	•			•	•	

×

Term

# Index

Reference

Page

Term	Reference	Page
Α		
ADD LINE function adding new lines adding predefined lines description	6.2.2.1 6.2.2.2 6.2.2	6-3 6-5 6-3
ADD ON function description example	6.3.4 6.3.4	6-21 6-22
ADD REPORT function description example	6.3.1 6.3.1	6-13 6-14
Asterisk (*) line	2.3.6	2-5
Auxiliary equipment connecting disconnecting	3.2.2 3.5.1	3-4 3-8
AUXILIARY function	9.2	9-2
Auxiliary logo	3.2.2	3-4
AUXILIARY SUSPEND function	9.3	9-3

В		
BINARY FIND function description example	7.4 7.4	7-8 7-9
•		
С		
CHANGE function description example options specify transparent character start scan	7.7 7.7 7.7.1 7.7.1.5 7.7.1.4	7-30 7-31 7-32 7-37 7-36
Connect auxiliary equipment	3.2.2	3-4
CONNECT command auxiliary equipment format function use	3.2.2 3.2 3.2 3.2.1	3-4 3-3 3-6 3-4
Control lines	2.3.3	2-3
Coordinator assign modes purpose	2.1 1.1.1	2-2 1-1

COP function 9.4 9-4

Term		Reference	Page	Term	Reference	Page	
				E			
				Error messages, restoring last data line	2.3.5		
	D						
Data b	ase						
	form types	2.1	2-2				
	mode	2.1	2-2				
	report	2.1	2-2				
	KIU solf training	2.1	2-2				
	structure	2.J 21	2-0	F			
	type	2.1	2-2	•		1	Í
				Fast access method			
DELETE	LINE function			ADD ON			
	description	6.2.4	6-9	6.3.4	6-22		
	example	6.2.4	6-9	ADD REPORT	6.3.1	6-15	
	REPORT function			AUXILIAKY SUSPEND DIMADY FIND	9.3 7 A	9-3 7 0	
	description	635	6-22	CHANGE	7.4	7-0 7-30	
	example	6.3.5	6-23	DELETE	6.3.6	6-24	
				DISPLAY function		4-4	
DELETE	RESULTS			display lines in form type	7.1	7-1	
	description	6.3.6	6-24	DUPLICATE REPORT	6.3.2	6-18	
	example	6.3.6	6-24	FIND	7.2	7-4	
Discon	necting the workstation				5.7.5 633	3-11 6-20	
	auxiliary equipment			SEARCH	7.5	7-11	
	3.5.1	3-8		SEARCH UPDATE	7.6	7-28	
	function	3.5	3-8	SORT	7.10	7-45	
	use	3.5	3-8	summary	Table A-2	A-3	
	V function			TOTALIZE	8.1	8-4	
DISFLA	description	43	4-3		0.3./ 3.7.3.1	6-25 3-11	
	example	4.3	4-5	ust	5.7.5.1	5-11	
				FIND function			
DUPLIC	ATE LINE function			description	7.2	7-3	
	description example	6.2.3	6-7	example	7.2	7-5	
	ovenihie	U.L.J	0-0	finding snaces	7.3.3.0 7551	/-20 7-19	
DUPLIC	ATE REPORT function			options	7.2	7-6	
	description	6.3.2	6-16	processing all line types	7.5.5.2	7-20	
	example	6.3.2	6-17	scanning selected reports	7.5.5.5	7-24	

SPERRY OS/3 MAPPER 80 MANUAL FUNCTIONS Index 3

Terr	n	Reference	Page	Term	Reference	Page
For	m types			Н		
	displaying lines	7.1	7-1			
	finding first occurrence of data	7.2	7-3	Holding characters	5.2	5-2
	free format (type A)	2.1	2-2	Ĵ		
	search for data	7.5	7-10	Holding lines	5.2	5-2
	search for data in a range	7.5.5.5	7-24			
Form	al access method	3.7.2	3-10			
Form	at					
	description	2.3.2	2-3			
	select	5.1	5-1			
Func	tion mask					
	description	3.7.1	3-10			
	entering functions	3.7.3.1	3-13	_		
Func	tion request screen					
	ADD ON	Fig. 6–11	6-21	Idia Jaga		
	ADD REPORT	Fig. 6-6	6-14	function	201	3_1
	AUXILIARY	9.2	9-2	signing on	33	3_4
	BINARY FIND	7.4	7-8	Signing on	0.0	5-4
	CHANGE	7.7	7-30	INDEX function		
	СОР	9.4	9-4	description	71	7_1
	DELETE REPORT	Fig. 6–12	6-23	example	7.1	7-2
	DISPLAY	Fig. 4–3	4-4	example	/.1	, ,
	DUPLICATE REPORT	Fig. 6-7	6-16			
	entering functions	3.7.1	3-9			
		3.7.3.1.	3-11			
	example	3.7.2	3-10			
	fields	3.7.2	3-10			
	FIND	7.2	7-3			
	INDEX	7.1	7-1			
	MATCH	7.8	7-39			
	MODE	Fig. 4–1	4-2			
	PRINT	9.1	9-1	· · ·		
	purpose	3.7.2	3-10	. L		
	REPLACE	Fig. 6-10	6-19			
	SEARCH	7.5	/-10	Last line redisplay function		
	SEARCH UPDATE	7.6	7-28	purpose	2.3.5	2-4
	SURI	7.10	7-44	restoring last data line	2.3.5	2-4
	terminating functions	3.7.Z 9 1	3-11 0 1	use	2.3.5	2-4
	TUTALIZE	8.1	8-1	Line control function		
F1 )	ev			Durpose	234	2-4
	resume FIND	7.3	7-7	restoring control line	234	2-4
	resume SEARCH UPDATE	7.6	7-29		234	2-4
				Line types	2.0.7	
				description	2.3.6	2-5
				hierarchy in a search result	7.5	7-12
				positioning	5.2	5-1
				search	7.5.5.7	7-26
				search for all	7.5.5.2	7-20
				1		

#### SPERRY OS/3 MAPPER 80 MANUAL FUNCTIONS

Term	Reference	Page	Term	Reference	Page
Line undate functions			NA INC.		
ADD LINF	622	6-3	i ivi		
DELETE LINE	624	6-9			
	623	6-7	Manual functions		
	625	6-10	ADD LINE	6.2.2	6-3
SOF LIPDATE	621	6-2	ADD ON	6.3.4	6-21
SOE OF DATE	0.2.1	02	ADD REPORT	6.3.1	6-13
line 0			AUXILIARY	9.2	9-2
entering functions	371	3-0	AUXILIARY SUSPEND	9.3	9-3
encering functions	3731	3-12	BINARY FIND	7.4	7-8
ovomnle	222	2-12 2-3	CHANGE	7.7	7-30
example	2.J.J Section 5	2-3	COP	9.4	9-4
positioning reports	30000 J	2.4	DELETE LINE	6.2.4	6-9
restoring after system message	2.3.4	2-4	DELETE REPORT	6.3.5	6-22
			DELETE RESULTS	6.3.6	6-24
	E O	F 1	DISPLAY	4.3	4-3
	5.2	5-1 5-0	DUPLICATE LINE	6.2.3	6-7
	5.2	5-2	DUPLICATE REPORT	6.3.2	6-16
HLD LN	5.2	5-2	fast access method	3.7.3	3-11
LINE	5.2	5-1	FIND	7.2	7-3
PSWD	6.2.6	6-12	formal access method	3.7.2	3-10
	5.2	5-2	INDEX	7.2	7-1
RL	5.2	5-2	last line redisplay	2.3.5	2-4
SHFT	5.2	5-2	MATCH	7.8	7-38
			MATCH UPDATE	7.9	7-43
Line 1			MODE	4.1	4-1
example	2.3.3	2-4	PREVIOUS RESULT DISPLAY	4.5	4-7
format	2.3.3	2-3	PRINT	9.1	9-1
restoring after system message	2.3.4	2-4	purpose	2.2	2-2
			RELEASE	4 4	4-5
Logging off	3.6	3-8	REPLACE	633	6-19
			ROLL BACK	625	6-10
Logging on	3.1	3-1	SEARCH	75	7_10
			SEARCH LIPDATE	7.5	7_27
Logon screen	Fig. 3–2	3-2	SOF LIPDATE	621	6_2
			SORT	7.10	7 44
			Summary	7.10 Table A 1	/~44 A 1
			terminating	270	A-1 2_10
				J./.Z Q 1	0 1 0 1
				0.1	6 25 0-1
			where to enter	0.3.7	0-20 2 0
				0.7.1	9-9
			MAPPER 80 IDLE logo	2.2.1	2.4
			TUNCTION	3.2.1	5-4

signing on

example

MATCH UPDATE function deleting lines

description

updating lines

MATCH function description

3.2.1 3-4 Fig. 3-3 3-4 3-3 3-5 7.8 7-38 7.8 7-40

6.3.6

7.9

6.3.7

6-24

7-43

6-25
SPERRY OS/3 MAPPER 80 MANUAL FUNCTIONS

Page

Reference

-

Term

Mode			
	accessing	2.1	2-2
	defined	2.1	2-2
	form types	2.1	2-2
	how to access another	4.1	4-1
	read/write	2.1	2-2
MODE	function		
	description	4.1	4-1
	example	4.1	4-1
Mode	type table		
	accessing	4.2	4-2
	example	4.2	4-3
	use	4.2	4-2

Term	Reference	Page
Р		
Passwords		
logging on	3.1	3-1
report	6.2.6	6-12
signing on	3.3	3–5
Period (.) line	2.3.6	2-5
Positioning reports		
display different formats	5.2	5-1
hold characters	5.2	5-2
hold lines	5.2	5-2
horizontal shift	5.2.4	5-7
line position	5.2.1	5-2
roll	5.2.3	5-6
roll with held lines	5.2.7	5-13
Predefined lines, adding to report	6.2.2.2	6-5
Previous result display function	4.5	4-7
PRINT function		
description	9.1	9-1
designating page breaks	9.1.1	9-2
Printing reports or results		
discontinue printing on auxiliary printer	9.3	9-3
on auxiliary printer on auxiliary printer connected	9.2	9-2
to workstation	9.4	9-4
on system printer	9.1	9-1
on system printer	*	

0		
Options		
CHANGE	7.7.1	7-32
FIND	7.2	7-6
MATCH	7.8	7-38
SEARCH	7.5.5	7-18
summary	Table A-3	A-4
TOTALIZE	8.1	8-3
OS/3 logo screen	Fig. 3-1	3-2

-	-
1	•
E	

Reference functions	Section 7	Section 7	
RELEASE function description use	4.4 4.4	4-5 4-5	
REPLACE function description example	6.3.3 6.3.3	6-19 6-20	

#### SPERRY OS/3 MAPPER 80 MANUAL FUNCTIONS

Index 6

Report access functions Section 4 Rolling   Report password assigning 6.2.6.1 6-12	
Report access functions Section 4 Rolling description 5.2.3 5-6 5-13   Report password assigning 6.2.6.1 6-12 with held lines 5.2.7. 5-13	
Report password assigning5.2.35-6 with held lines6.2.6.16-12	
Report password assigningwith held lines5.2.7.5-13	
assigning 6.2.6.1 6–12	
changing 6.2.6.2 6-12 Run functions 2.2 2-2	
deleting 6.2.6.3 6-13	
general 6.2.6 6–12	
Papart undata functions	
ADD REPORT 6.3.1 6-13	
DELETER REPORT $6.35$ $6-22$	
DELETE RESULTS $636$ $6-24$	
DUPLICATE REPORT 6.3.2 6-16	
UPDATE RESULTS 6.3.7 6-25	
Reports	
adding to data base 6.3.1 6-13	
deleting 6.3.5 6-22	
deleting lines 6.2.4 6-9	
first occurrence of data 7.2 7-3	
tormat 2.3.2 2-3	
tree format (type A) $2.1$ $2-2$	
now to display 4.3 4-3	
line tength 2.3.1 2-3	
1000000000000000000000000000000000000	
password to update 0.2.0 0-12 an interfypes 7.3.3.2 7-20	
printing 7.4 7_8 description 7.5 7-10	
9 1 9-1 example 7.5 7-12	
referencing 21 2-2 line type 7.5.5.7 7-26	
size 2.3.1 2-3 masking partial fields 7.5.1 7-13	
updating 6.1 6-1 NOT condition 7.5.5.3 7-20	
updating line 6.2.1 6-2 omit headers 7.5.5.4 7-22	
omit search information lines 7.5.5.4 7-22	
Result options 7.5.5 7-18	
defined 2.4 2-6 previous result 7.5.3 7-15	
displaying a previous result 4.5 4-7 range 7.5.2 7-14	
functions summary Table A-1 A-1 range of reports 7.5.5.5 7-24	
searching a previous result 7.5.3 7-15 spaces 7.5.5.1 7-19	
DESUME function	
description 73 7.7 delete lines 636 6-24	
example 7.3 7-7 description 7.6 7-27	
example 7.6 7-29	
example     7.6     7-29       RID     2.2.1     2-2     update lines     6.3.7     6-25	
RID     2.2.1     2-2     example     7.6     7-29       update lines     6.3.7     6-25	
RID     2.2.1     2-2     example update lines     7.6     7-29       RID 0     2.3.2     2-3     Security     6.3.7     6-25	
RID     2.2.1     2-2     example update lines     7.6     7-29     7-29     7.6     7-29     7.6     7-29     7.6     7-29     7.6     7-29     7.6     7-29     7.6     7-29     7.6     7-29     7.6     7-29     7.6     7-29     7.6     7-29     7.6     7-29     7.6     7-29     7.6     7.29     7.6     7.29     7.6     7.29     7.6     7.29     7.6     7.29     7.6     7.29     7.6     7.29     7.6     7.29     7.6     7.29     7.6     7.29     7.29     7.6     7.29     7.29     7.6     7.29	
RID     2.2.1     2-2     example update lines     7.6     7-29     7-29       RID     2.3.2     2-3     Security general mode     1.1.2     1-2 2.1     1-2	
RID 2.2.1 2-2 example update lines 7.6 7-29   RID 2.3.2 2-3 Security 6.3.7 6-25   ROLL BACK function description 6.2.5 6-10 report 6.2.6 6-12   Normality 6.2.5 6-10 report 6.2.6 6-12	
RID   2.2.1   2-2   example update lines   7.6   7-29 update lines     RID 0   2.3.2   2-3   Security general mode   1.1.2   1-2 mode     ROLL BACK function description example   6.2.5   6-10   report   6.2.6   6-12     signing on   3.3   3-5	
RID   2.2.1   2-2   example update lines   7.6   7-29 update lines     RID 0   2.3.2   2-3   Security general description example   1.1.2   1-2 report     ROLL BACK function description example   6.2.5   6-10   report signing on   6.2.6   6-12     Image: Construction description example   6.2.5   6-11   signing on   3.3   3-5	

UP-9735

SPERRY OS/3 MAPPER 80 MANUAL FUNCTIONS

**Index 7** Update A

Term	Reference	Page
Signing off		
alternate methods	3.4.1	3-8
function	3.4	3-7
use	3.4	3-7
Signing on		
function	3.3	3-6
self-training mode	3.3	3-6
use	3.3	3-6
SOE UPDATE function		
description	6.2.1	6-2
example	6.2.1	6-2
SORT function		
description	7.10	7-44
example	7.10	7-45
System control lines	2.3.3	2-3
System messages, restoring control line	2.3.4	3-4

Term		Reference	Page
	т		
	1		
Tab lii	nes	2.3.6	2-5
<b>_</b> .			
Termin	al	See workstat	ion.
TOTAL	IZE function		
	averaging	8.4	8-9
	cumulation	8.6	8-11
	description	8.1	8-1
	displaying calculation results	8.13	8-27
	entry counting	8.7	8-13
	filling fields	8.11	8-22
	group and consecutive cumulation	8.6.1	8-12
	horizontal arithmetic	8.2	8-5
	how to specify parameters	8.1	8-2
	moving fields	8.10	8-21
	numeric rounding	8.9	8-16
	options	Table 8-2	8-3
	parameters	Table 8-1	8-2
	sequencing	8.8	8-14
	subtotaling	8.5	8-10
	vertical summation	8.3	8-8
Trailer	lines	2.3.6.1	2-5

U

Update functions		
line	6.2	6-2
report	6.3	6-13
UPDATE RESULTS function		
description	6.3.7	6-25
example	6.3.7	6-25
User logo screen		
entering functions	3.7.3.1	3-11
signing off	3.4	3-7
signing on	3.3	3-5
User logo screen entering functions signing off signing on	3.7.3.1 3.4 3.3	3-11 3-7 3-5

W

Workstation		
configuration types	1.1.3	1-2
local	1.1.3	1-2
remote	1.1.3	1-2
terminal	1.1.3	1-2





1

CUT

#### **USER COMMENT SHEET**

We will use your comments to improve subsequent editions.

NOTE: Please do not use this form as an order blank.

(Document Title)

(Document No.)

(Revision No.)

(Update No.)

**Comments:** 

#### From:

(Name of User)

(Business Address)

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES ' сит

## **BUSINESS REPLY MAIL**

FIRST CLASS PERMIT NO. 21 BLUE BELL, PA.

POSTAGE WILL BE PAID BY ADDRESSEE

### **SPERRY CORPORATION**

ATTN.: SOFTWARE SYSTEMS PUBLICATIONS

P.O. BOX 500 BLUE BELL, PENNSYLVANIA 19424

FOLD

<u>FOL</u>D



СПТ

## **USER COMMENT SHEET**

We will use your comments to improve subsequent editions.

NOTE: Please do not use this form as an order blank.

(Document Title)

(Document No.)

(Revision No.)

(Update No.)

**Comments:** 

From:

(Name of User)

(Business Address)

Fold on dotted lines, and mail. (No postage stamp is necessary if mailed in the U.S.A.) Thank you for your cooperation

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES CUT

# **BUSINESS REPLY MAIL**

FIRST CLASS PERMIT NO. 21 BLUE BELL, PA.

POSTAGE WILL BE PAID BY ADDRESSEE

### SPERRY CORPORATION

ATTN.: SOFTWARE SYSTEMS PUBLICATIONS

P.O. BOX 500 BLUE BELL, PENNSYLVANIA 19424

FOLD

FOLD