SCRIBE, DSCRIBE, DSSCRIBE A TEXT PROCESSING SYSTEM SCRIBE User's Guide

June, 1975

Model Code No. 50006

DATAPOINT CORPORATION



The Leader in Dispersed Data Processing SCRIBE, DSCRIBE, AND DSSCRIBE SCRIBE A TEXT PROCESSING SYSTEM June 1975 Model Code No. 50006

PREFACE

Manually typed documents often require modifications to correct errors, to insert or delete information or to change the format of the text. The text preparation system based on the SCRIBE program and the Datapoint Processer is designed to provide easy update facilities and complete, simple to use, formatting capabilities.

SCRIBE uses the Datapoint Processor keyboard and screen for creation of text and uses the cassette tapes or disk files for storage of the text. Unce the text has been recorded on the cassette or disk, the text is printed by the SCRIBE program which recognizes and responds to the SCRIBE commands embedded in the text. Creating the text on the screen eliminates the time consuming correction of hard copy errors. All errors can be corrected before the text is recorded on the cassette or disk. If an error is recorded, the editing features of the supplementary General Purpose Editor (GEDIT) program facilitate error correction.

In addition to the error reduction and error correction features, the SCRIBE system allows the typist to control the

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format of the printed text with typed commands rather than with manual operations. The operator can type completely free-form, imbedding SCRIBE commands in place of performing manual operations such as carriage return, margin changes, tabstop setting. The dozens of SCRIBE commands allow the most complicated charts and text formats to be disposed of quickly. And, with the exception of changing pages (even this can be avoided by use of continuous forms), the typing of the final document requires no supervision by the operator.

SCRIBE is written for the Datapoint Processor. Seven output configurations are available:

> Datapoint Processer (8K), Selectric Interface 9240 and IBM Model 735 Selectric I/D Typewriter (with correspondance code and reverse polarity 24 volt coils).

Datapoint Processer (8K) and either Serial Printer or Line Printer.

Datapoint Processer (8k) and Servo Printer 9250.

Datapoint Processer (8k), Communications Adaptor 9400, Cable 9435, and Thermal Printer 3200.

Datapoint Processer (8k), Communications Adaptor 9400, Cable 9434, and IBM 2741 Communications Terminal.

Datapoint Processer (16K), 9350, 9370, or 9380 Series Disk, and any of the above printers. Datapoint Datashare System, Cable kit 9461, Communications Adapter 9402, Cable 9011, Datapoint Processer (8K), Cable 9010, and Servo Printer 9250.

NOTE: This entire manual was prepared and printed using the SCRIBE system.

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CHAPTER 1. BASIC CONCEPTS

A typist's output is normally a one-time product and changes in the text or format of a document often require a complete retyping effort. The SCRIBE system is designed to provide a typis: with a storage medium (the cassette tape or disk file) on which text can be recorded, a method for recording and making changes to the recorded information (the GEDIT program) without having to retype the entire document, and a program (SCRIBE) to produce a finished printed copy from the recorded information.

Hereafter; SCRIBE will refer to SCRIBE in general or to Cassette SCRIBE Version 1 and Version 2. DSCRIBE will refer to the system run under the Disk Operating System. DSSCRIBE will refer to the system run under Datashare.

A typist performs a number of non-keystroke operations in the preparation of a document. Setting margins and tabstops, performing tabulations, and returning the carriage at the end of lines and for multiple spacing, are functions performed almost automatically. When using SCRIBE, the same tasks are performed through the use of control information that is embedded within the text. For example, instead of physically setting the right margin to 65 on the typewriter, the command +RM65 (set right margin at column 65) is entered at the point in the text where the margin need be changed. If the margins need to be changed later in the document, new margin setting commands can then be typed. Similarily, the +TC, +TS, and +TB commands (for tab clear, tab set, and tabulate, respectively) are entered in the text whenever the typist ordinarily performs the function at the typewriter. 01 course, the commands are not printed in the final text but are processed by SCRIBE to effect the final copy.

SCRIBE executes many functions that a typist normally performs as the text is being prepared, such as going to a new page after an appropriate number of lines and page numbering. It also performs functions which are difficult for the typist to achieve the first time the text is typed (e.g., centering headings and justifying the text to provide even margins). Note that, unless instructions are given to the contrary, there is no correspondence between the format of the lines as they are recorded on the storage medium and as they are arranged on the printed copy. Thus, one need not concern himself with the format of the input text. Since SCRIBE represents a radical change in the usual procedure for producing a document, a simple example follows to help the reader conceptualize what is being described. The first part, TYPED TEXT, is the text as it is entered with the GEDIT program and the second part, PRINTED BY SCRIBE, is the copy that is produced by the SCRIBE program given the first part as data. The commands used in the example are:

+pp = start a new paragraph
+n1 = start a new line
+ts = set a tab stop
+tb = tabulate to the next stop
+tc = clear all tab stops

TYPED TEXT:

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1.1 Control Commands

A command is differentiated from text by starting with a plus sign (+). It is of the form +XX where XX (which may be either upper or lower case) indicates which command is to be exercised. A complete list of SCRIBE commands (106 in all) is contained in Appendix H for quick reference.

Many of the commands are followed by a number, thus taking the form +XXnnn where nnn may be one, two, or three digits. Note if nnn is less than three digits, it must be followed by a space if the first character of text that follows is a digit. If the nnn field is omitted completely, a zero value will be assumed.

A few special commands, discussed later under page numbers, take the form +XXnnnnn where nnnnn must always be five characters.

A special exception to the above is that a plus sign followed by another causes a single plus sign to be printed (++ causes + to be printed).

COMMANDERECT

E	v	۸	A.A	n	£	£.~	C	
E.	Α.	A	[*]	m	L	C.	Э	ě.

+PG	eject a page
+PP2	skip 2 lines and indent
+SL1234	skip one line and print 234
+5_1234	skip 123 lines, or to the next page,
	and print 4
+Pp	skip 0 lines (i.e. carriage return
	only) and indent
+T3	tabulate to the next tabstop
+	print a plus sign (n] +PB02=01 print 02=01
at the bot	tom of the
	current page and increment for each
	subsequent page

Except for the right and left margin setting commands (+RM, +LM, +RT, +LT, +AR and +AL), all SCRIBE commands go into effect immediately. The margin setting commands do not effect the margins until after the line upon which they appear is printed.

Commands themselves are never printed unless they are in error. If a command is decoded partially, the remaining portion of the command will appear in the output text. For example, +PX2 gives a command error and prints the 2. 1.2 Format Assumptions

If formatting commands, which control the general appearance of the output page (e.g., margins, paragraph indentation), are not issued, input text will assume an output format defined by default. The following is a partial list of format conditions initially in effect:

Case: Lower Left Margin: Column 1 Right Margin: Column 60 Line JustificatiLeft Header Spacing: 3 lines Body Length: 53 lines Footing Length: 10 lines Line Spacing: Single Paragraph Indent5 Spaces

A complete description and explanation of all default assumptions is given in the following sections and is summarized in Appendix B. Changing the overall format of SCRIBE cutput is done by issuing the format control commands.

EXAMPLE:	COMMAND	EFFECT
	+LM10	sets the left margin to column 10
	+LS2	causes the following text to be double
		spaced
	+BL80	sets the body length to 80 lines

Straight text can be formatted according to the default assumptions using only one command: +PP (paragraph indent). Text is prepared as a continuous stream of words and punctuation with the +PP command embedded wherever a new paragraph is needed. The text is printed left justified between column 1 (i.e., wherever the left margin on the printer is positioned) and column 60. The current line is printed, left justified; the carriage returns and then spaces over 5 columns everywhere the +PP command is encountered, forming a new paragraph. At the end of 53 lines of text, the page is ejected and the operator is requested to place another sheet of paper in the printer for the next page.

If double spacing between paragraphs is desired, each +PP command is simply changed to a +PP1 (skip 1 line and paragraph indent).

fo produce page numbered copy, only one additional command is needed: +PB 1. Placed before the text, or typed by the operator, this command will cause centered page numbers to be placed at the bottom of every page.

To produce a standard letter, three more commands would be useful:

+TS	set	tabst	ops	
+TB	tab	to a	tabstop	
+NL	new	line	- carriage	return

With these commands, the operator can set a tabstop (for the date, address, etc.) and can force carriage returns without paragraph indentation. (See Appendix E, Example 3 for a sample letter.)

1.3 Spaces and Special Characters

Multiple spaces in the input text are reduced to a single space (except after certain punctuation characters). Therefore, special:commands must be used to generate multiple spacing. For example, entering:

I RUN. YOU JUMP. will cause

I RUN. YOU JUMP. to be printed.

Certain characters are treated in special ways to provide compatibility with normal punctuation conventions. The period, question mark, double and single quotation marks, colon, semicolon, right hand parentheses, and exclamation point are unique since the number of spaces following these characters will not exceed two, but can be one or zero.

EXAMPLES:	TYPED	PRINTED
	stop.Go	stop.Go
	stop. Go	stop. Go
	stop. Go	stop. Go
	stop. Go	stop. Go

Note that spaces after commands are discarded by SCRIBE.

EXAMPLE:

TYPED PRINTED Now+UN is the+NU time Nowis thetime Now +UNis the +NUtime Now is the time

SCRIBE adds a space after every input line. Since multiple

spaces are suppressed and spaces after commands are ignored, this replacement will normally be an aid to the operator (since he will not have to supply a space after the last word on a line or before the first word on the next line). However, this replacement implies that words cannot be continued from one input line to the next since a space will always be inserted. Note that if an input line is terminated by a period, it must be followed by a space on the next line or be followed by +SP2 (force 2 spaces) if the period is to be followed by two spaces in the output text. A continuous string may be broken between two edited lines if the first line is terminated by a non-essential command (such as +LJ when you are already in left justified mode) since spaces after a command are suppressed.

1.4 "As is" Text

The user of SCRIBE can print text one line at a time without any format control or blank suppression by using one of the "as is" commands. When tAS is issued, the remaining text on the current line is ignored, the current output line is printed, and the input file is read one line at a time and printed as it was entered, including plus signs and multiple spaces. The line spacing, left margin, line justification and number of lines per page in effect before the the text can, however, exceed the right margin. Escape from this mode is achieved by entering a single line containing t## (the rest of the escape line is ignored).

EXAMPLE:

tas						
This	is	9	line	of	untouched	text.
+ # #						

A different "as is" command is required to list SCRIBE input tapes. See the section on Text Input/Output Control.

1.5 SCRIBE Manual Organization

The SCRIBE manual is organized by command categories, e.g., all page control commands (page numbering, headers, lines/page, etc.) are grouped in one section. Each section's opening paragraph provides a list of the commands covered, allowing the user to leaf through the manual to become acquainted with the various commands as he needs them. Appendix H contains a complete set of SCRIBE commands for quick reference.

Section 8, Text Input/Dutput Controls, describes the

operation of SCRIBE and how to generate drafts and final copy.

The appendices contain a list of commands, default conditions, and a comprehensive set of examples.

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CHAPTER 2. PAGE CONTROL

AL left margin for page number right margin for page number AR BH begin header text BL body length FL footing length HL header length LF left hand page footing NH stop printing header text PB page number at bottom of page PC page continue PG new page PM page manual - numbers in alternating lower corners PH page halt PN page normalize - new page. PR page restart (see section 8.5) PS special page skip PT page number at top of page RE right hand page footing RN Roman numeral page numbers

2.1 Page Extent

The length of a page is defined by the number of lines skipped at the top, the number of lines printed and the number of lines skipped at the bottom.

+HLnnn, header length, controls the number of lines to be skipped from the top of a page before the next line of text is printed. This count does not take into consideration where the operator positions the first printable line of a page. Default value for the heading length is 3.

+BLnnn, body length, sets the number of lines to be printed on a page. This count starts from the first printable line on the page, i.e., the fourth line from the top under normal default conditions. The default value for body length is 53.

+Finnn, footing length, sets the number of lines skipped at the bottom of each page. The default value for the footing length

CHAPTER 2. PAGE CONTROL 2=1

is 10.

Therefore, the actual length of a page, under the default conditions, is 3+53+10 or 66 lines. To vary the number of lines on a page without changing the length of the page itself, the sum of the header length, body length, and footing length should remain 66. However, combinations which generate longer or shorter page lengths are permitted. Standard continuous forms are 66 lines. Appropriate changes to header and/or body length should be made if non=standard continuous forms (e.g. checks) are used.

A body length of zero (0) is used to indicate an infinite page or, in other words, continuous printing.

Setting the header length to zero will prevent printing of headings or top-of-page page numbers.

Setting the footing length to less than 5 lines will prevent printing of bottom-of-page page numbers.

2.2 New Pages

Pages are automatically ejected when the specified body length is reached.

+PG causes the current page to be ejected immediately. The number of line feeds needed to complete the specified body length will be issued.

+PSnnn, page skip, is a conditional new page command. If there are less than nnn lines remaining on the current page, the page will be ejected. If at least nnn lines remain, no page ejection will occur. If, for example, you have a ten line table that should appear on a single page, preceeding it by a +PS10 command will eject a page if the table will not fit on the current page.

+PN, page normalize, would normally be used at the very beginning of the text to inform SCRIBE that it is at the top of a page. The command will cause the header space (3 lines, header and page number if any) to be printed. +PN does not increment the actual page number or the physical page number before printing. Note a +PG command could also be used to initialize, however, +PG would issue 53 line feeds and add 1 to the page number.

+PH, page halt, causes the printing to halt when the end of page is reached to allow the operator to change the paper. The

2-2 SCRIBE, DSCRIBE, AND DSSCRIBE

message "NEW PAGE" will be displayed on the CRT. When the paper is in place, the operator presses the ENTER key and printing resumes. The page halt condition is ON when SCRIBE is started.

+PC, page continue, command negates the page halt command, i.e., SCRIBE doesn't halt the and of page for paper changing. It is intended for use with continuous form paper and is turned OFF when SCRIBE is started.

2.3 Page Numbering

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Page numbering is an option of the SCRIBE program. Normally page numbers are suppressed.

+PBnnnn, page numbering = bottom, will cause page numbers to be printed at at bottom of every page. SCRIBE will automatically increment the page number as pages are ejected. The five character field following the command contains the initial value for page numbering. Non=numeric characters are allowed in the nnnnn field (e.g. A=12). Though only 5 characters may be entered (e.g. AA=99), 6 characters may be printed (e.g. AA=100). If the characters "*****" are used in place of a page number, page numbering will be suppressed. The page number will be printed in the fourth line after the body of the text has been completed.

EXAMPLE:	COMMAND	EFFECT		
	+PB 1	The current page will be numbered 1 at		
		the bottom.		
	+PB	The current page will not be numbered,		
		the next page will be number 1.		
	+PB****	Suppress further page numbering.		
	+PB01=01	The current page will be numbered 01=01		
		at the bottom of the page		

+PInnnnn, similiarly, causes page numbering to appear at the top of each subsequent page. Top-of-page page numbers are printed in the first line of the header space, i.e., one line down, followed by two blank lines before the text resumes.

EXAMPLE:	COMMAND	EFFECT		
	+PT 20	If followed by a command, the current page will be numbered 20 at the top. If followed by a command or if the		
	+PT****	next page is reached automatically, the new page will be numbered 21 at the top. Page numbering will be suppressed.		

NOTE: executing a +PN command (page normalize) after a +PB or +PT command will not increment the page number.

+PMnnnn, page manual, will cause page numbers to be printed in the lower right and left hand corners of the page alternately starting with the right hand page.

+RNnnn, Roman numerals, will print Roman numerals at the bottom of the page from i to xv starting with nnn, where 1 (i) is assumed if nnn is not given. This is useful for a preface or table of contents.

+ALnnn and +ARnnn are used to set the left and right margins which are used only for the page number field. The default assumptions are left page number margin at column 1 and right page number margin at column 60. Therefore, if the margins are not reset, page numbers will be centered at top or bottom of the page. Resetting the left margin to column 55 (+AL55) would produce right justified page numbering. (Actually centered between columns 55 and 60.) The page numbers printed by the Page Manual command are relative to the text on the page and are not affected by the +AL and +AR commands.

2.4 Page Heading

A string of characters may be designated as a heading. These characters will be printed, left justified, starting in column 1. The heading will appear on the first line of the header space. The page number, if any, will still be centered between the left and right page number margins.

+BH, begin header, signifies that the following characters are a heading. The heading is accepted ""as is"". No commands may be used since the first plus sign (+) terminates the heading. Headings may be changed by typing a new +BH command.

+NH suppresses further printing of headings.

EXAMPLE: TYPED TEXT:		
+BHS C R I B E INSTRUCTION MANUAL +pt	August 1972 Page +a155+pn	
PRINTED BY SCRIBE: S C R I B E INSTRUCTION MANUAL	August 1972 Page	1
If a +PN is not inserted after	the +BH, the header and	page

number, if any, will not appear on the first page.

2.5 Page Footings

+LF, left hand footing, will cause the following text, up to a command (which MUST be on the same line) to be saved "as is" (as in headings) to be printed in conjunction with the left hand page numbers generated by Page Manual (+PM). The text will then be processed in-line. This allows a chapter name, for instance, to be printed and saved for a footing at the same time.

+RF, right hand footing, works the same as +LF except that the text is printed in conjunction with right hand page numbers.

CHAPTER 3. H IRIZONTAL CONTROL

AT	actual tab
EL	Elite (12 per inch) character spacing
IS	set paragraph indentation (See +PP)
JR	right justify at current column
LM	set left margin
LT	set left margin to tab
NR	stop field right justification
PI	Pica (10 per inch) caracter spacing
PP	paragraph indent (See Section 5.)
RM	set right margin
RT	set right margin to tab
SI	character size (width) change
SP	skip spaces
TB	tabulate
TC	clear all tabstops
TR	tab and right justify the field
TS	set tabstop
TT	typewriter tab
TX	tab extended (tab right to right margin)

3.1 Margins

Text margins may be set absolutely or to a tab stop and page number margins may be set absolutely.

3.1.1 Left Margin

+LMnnn sets the left margin. The left margin is the first column into which text will be placed when a new line is started (unless overridden by a tab or paragraphing command). The +LM command does not take effect until the current line has been printed. Dne may also use the +PL command to cause immediate resetting of the margin. The default value for left margin is column 1.

EXAMPLE

TYPED TEXT: +LM5+plGeneral Purpose Editor 3.1 +LM10+n1 For programmers using GEDIT this manual provides a complete reference and instructions for use. +LM5+sl1Datapoint 2200 Reference Manual +LM10+n1 The Reference Manual describes the specific hardware details, physical design, instruction set and the input/output specifications.+LM5

PRINTED BY SCRIBE:

- General Purpose Editor 3.1 For programmers using GEDIT this manual provides a complete reference and instructions for use.
 - Datapoint 2200 Reference Manual The Reference Manual describes the specific hardware details, physical design, instruction set and the input/output specifications.

3.1.2 Right Margin

+RMnnn sets the right margin. The right margin is the last column used on the right side of the printed line. When a attempt is made to place text past this column, the current line will be justified and printed and a new line will be started at the left margin. The default value for right margin is column 60.

EXAMPLE

TYPED TEXT: +1m20+RM35+1j+p1Now is the time for all good men to come to the aid of their country. +sl1+emNow is the time for all good men to come to the aid of their country. +1m15+RM40+sl1Now is the time for all good men to come to the aid of their country.

PRINTED BY SCRIBE:

Now is the time for all good men to come to the aid of their country.

Now is the time for all good men to come to the aid of their country.

Now is the time for all

good men to come to the aid of their country.

The margin setting commands do not go into effect until the next line is started. Setting the right and left margins before the first line is printed, will not effect the format of the first line. This delayed action is designed to prevent loss of data and justification errors on the line being constructed. The composer may overcome the delay by using the +PL command to have the margins reset immediately. (See the section on Print Suppression for a discussion of the +PL command.)

Placing the right margin to the left of the left margin will cause a single character to be printed on each output line.

3.1.3 Set Left Margin to Tab

The command +LT sets the left margin to the next tabstop. It is further explained below.

3.1.4 Set Right Margin to Tab

The command +RT sets the right margin to the next tabstop. Both the +LT and +RT commands cause the tabstop indicator to be incremented. Thus, if tabs are set at 10, 20, 40, 60, and 80, and the margins are to be changed to 10 and 80, the commands +LT+TB+TB+TB+RT+PL will effect the margin change. +RT and +LT, as in the +LM and +RM commands, do not change the margin until the current line has been printed. To force an immediate margin change, the +PL command may be used. Using these commands enables the user to change tabstops without also being forced to change corresponding margin commands.

3.1.5 Run=On Lines

When there exists a series of characters with a length greater than the distance between the right margin and the left margin and containing no intervening space, SCRIBE will break the series so that it will fit between the left and right margins. The remainder of the series will be placed on the next line.

EXAMPLE

TYPED TEXT:

+LM025+RM033+NLMrs, X, Chairwoman of the house subcommittee on Government Information,...

PRINTED BY SCRIBE:

Mrs. X, Chairwoma n of the house subcommit tee on Governmen t Informati on,...

3.1.6 Page Numbering Margins

In addition to the text control margins +LM and +RM there are also the margins +AL and +AR for positioning of page numbers which are explained in the section on Page Controls. The two sets of margins do not interact with each other.

3.1.7 Margins and Line Justification

Line justification is performed when an attempt is made to place a character past the +RM column. When this attempt has been made the incomplete word existing at this point is placed on the next line and the current line is justified. See the section Line Justification for a more detailed explanation.

3.1.8 Data Outside the Margins

No text can ever be placed past the right margin. However, text may be printed before the left margin setting by using one of the tabulation commands (e.g. +AT). In this manner marginal notes may be entered. Note: only text between the left and right margins will be justified.

3=4 SCRIBE, DSCRIBE, AND DSSCRIBE

EXAMPLE

TYPED TEXT: +em+LM15+rm35+p1+AT1NOTE:+at150nly data between the specified margins will be justified. However, single field justification can be performed outside the margins. +n1+AT1BE+at15Care must be taken that the pointer to the last column is past the end of data. +AT1CAREFUL+AT36

PRINTED BY SCRIBE:

NOTE:	Only data between the
	specified margins
	will be justified.
	However, single field
	justification can be
	performed outside the
	margins,
BE	Care must be taken
	that the pointer to
	the last column is
CAREFUL	past the end of data.

3.2 Indentation and Paragraphing

+ISnnn sets the number of columns to indent for paragraphing. The indentation occurs relative to the left margin. Therefore, +IS10, when the left margin is set to 10, will space 19 columns over and print the first character in column 20. The default value for indentation is 5 columns.

+PPnnn causes the current line to be printed, with only left Justification. The number of lines specified by nnn will be skipped and the text following the command will start at the current value of the left margin plus the value set in the +IS command. See the section on Vertical Control for the other effects of +PP.

3.3 Column Skipping

+SPnnn forces multiple spaces (see Section 1.3). Since SCRIBE normally leaves one space between words, a means of forcing multiple spaces becomes necessary. +SPnnn skips forward a fixed number (nnn) of columns, thus leaving blank spaces. The even margin justification mode may add more spaces to this area, but will never decrease the number. EXAMPLE TYPED: Wide+SP3open+SP4spaces PRINTED: Wide open spaces

The space skipping command resets the line output pointer only and does not blank out any existing characters in the line. Since lines are blanked and assumed to be blank after each new line is started, the above command only appears to leave blank spaces.

EXAMPLE

TYPED: ??????????????????????*AT5A B+SP3C+AT50

PRINTED: ???A B???C??????????????

In this example the +SP command moved the current output pointer backward over an area already set with data (?"s) with the result that no spaces appeared in the line.

3.4 Tabulation

Tabs may be cleared or set (up to 20) and may be approached in several different ways.

3.4.1 Tab Setting

+TSnnn is the command to set a tabstop. Tabstops are set consecutively so that the first tabulate command goes to the first tabstop, even if the current pointer in the line is past that point. Therefore, tabstops do not need to be in ascending order. However, care must be taken that the current pointer is past all the actual text before new line type commands are executed. Up to twenty tabstops may be set. The column specified may be anywhere on a printed line, from column 1 to column 132, but it should not exceed the right margin since positioning past the right margin causes the current line to be printed and subsequent text to appear at the left margin of the next line. No tabstops are set at initialization.

3=6 SCRIBE, DSCRIBE, AND DSSCRIBE

3.4.2 Tab Clearing

+TC, the tab clear command, clears all tabstops. Since it is difficult to keep track of where and how many tabstops have been set, it is a good standard practice to execute a +TC command before setting new tabstops.

3.4.3 Tabbing

+IB tabulates, i.e., positions the output pointer to the column specified in the next (in order of setting, which may not be in sequential order) tabstop setting. The subsequent input character will be placed in that column. If you want to skip a tabstop, you must still type +TB to get past that tab, even if the current position in the line is past the tabstop.

EXAMPLE

TYPED TEXT: +TC+TS15+TS25+TS45+TS35+TS50 +TBThe+TBcolumn+TBxxx+TBin tFe+TB+n1 +TBmiddle+TBis typed+TBxxx+TElast+TB

PRINTED BY SCRIBE: The

The column in the xxx middle is typed last xxx

3.4.4 Typewriter Tab

The +TI command tabs to the next tabstop in the list to the right of the current position (rather than just the next tabstop in the list) similar to the way a typewriter would do it.

3.4.5 Absolute Tabbing

+AInnn is the absolute tab command. It positions the line output pointer at the specific column and places the next input character in that column. The column specified can be anywhere on a printed line, from column 1 through 132; however, if the column exceeds the right margin, a carriage return will occur and the data will be printed starting at the left margin.

Once a document has become dependent on a large number of absolute tab settings, it becomes very difficult to change, since each +AT instance must be changed individually. This is true for the use of any absolute setting in SCRIBE.

EXAMPLE

TYPED: +AT20X+AT30Y+AT40Z+n1 PRINTED: X

Ζ

3.4.6 Tab and Right Justify

+TR command puts the output line pointer at the next sequential tabstop. However, data entered from this point (until a +NR command is received or column 1 is reached) will be shifted right, causing the data to be right justified one column before the tab stop. WARNING: input data includes the implied space at the end of an edited line. Entering a non-essential command (e.g., a +LJ when already in left justified mode) will eliminate the implied space as spaces following commands are suppressed.

+NR terminates right justification and leaves the output pointer at the tabstop position.

EXAMPLE

TYPED TEXT: +tc+ts20+ts30 +TRxxx+NRyyy+TRabc+NRzzz+n1 +tbAAA+tbBBB+n1

PRINTED	BY:	SCRI	BE:	
			XXXYYY	abczzz
		,	AAA	BBB

EXAMPLE

TYPED TEXT: +tc+ts10+ts30+ts40 +TRthis+TR123.50+TRone+n1 +TRcolumn+TR22.00+TRtwo+n1 +TRis+TR1000.00+TRthree+n1 +TRjustified+TR1.50+TRfour+n1 +tbbut+tbthese+tbcolumns+n1 +tbare+tbtabulated+n1

PRINTED BY SCRIBE:		
this	123,50	one
column	22.00	two
is	1000.00	three
justified	1.50	four
but	the	ese columns
are	tat	bulated

There are many traps waiting for the incautious user of tabulation commands. See the section on Common Pitfalls.

3.4.7 Tab Extended

+TX, tab extended, causes a tab and right justify against the right margin. This is useful for something like a table of contents.

3.5 Field Right Justification

۱. i

If field right justification is desired where no tabstop is set, the justify right (+JR) command, usually used in conjunction with the absolute tab (+AT) command, is available.

+JR causes SCRIBE to go into a right justification mode at the current column, so that subsequent input text will be moved to the left, overlaying any previously entered data, until a +NR or a line terminating command is received or until column 1 is reached.

EXAMPLE

TYPED TEXT: +at12+JRThis data+NL+at12+JRis+NR+at30But the third line +n1 +at12+JRright justified+NR+at30ran into the margin.+n1

PRINTED BY	SCRIBE:		
This data			
is		But	the third line
ht justified		ran	into the margin.

3.6 Pica and Elite

As both pica (10 characters per inch) and elite (12 characters per inch) wheels are available for the servo printer, the +PI (pica) and +EL (elite) commands allow the user to specify which spacing is needed to match the character wheel in use.

3.7 Size Increment

The servo printer may be positioned horizontally to 60 micropositions per inch. Pica and Elite are 6 and 5 micropositions per character respectively. However, the user may desire a non-standard character spacing. +SInnn, size increment, allows the user to specify the number of micropositions per character, where nnn may be from 1 to 255. Using this command in conjunction with the line increment (+LInnn) command allows a pseudo-graphic capability. WARNING: since SCRIBE is character oniented, a large size (width per character) may cause the carriage to hit the right hand end of the servo printer. On the other hand, setting it to 1 reduces the effective width of 132 columns to 2.2 inches.

CHAPTER 4. LINE JUSTIFICATION

CN center EM even margins LJ left justify RJ right justify

Four modes of line justification are available: left justification; right justification; centering between the margins; and "even margins" (right and left justified). Left justification is the default condition assumed when SCRIBE is initially used.

4.1 Left Justification

+LJ, left justification, produces output lines less than or equal to the right margin in length. Whenever the next word of input text crosses the right margin, the current line is printed and the last word is placed at the beginning of the next line.

EXAMPLE

```
TYPED TEXT:
+1m10+rm40+p1+LJ Left Justification looks like this, the right
hand margin is ragged. Tabbed columns are maintained.+n1
+at15 1111+at25The tabbed spacing+n1
+at15 2222+at25will not be disturbed even though the margin is
reached and a carriage return occurs.
```

PRINTED BY SCRIBE:

Left Justification looks like this, the right had margin is ragged. Tabbed columns are maintained. 1111 The tabbed spacing 2222 will not be disturbed even though the margin is reached and a carriage return occurs.

4-1

4.2 Right Justification

+RJ, right justification, shifts the formatted line to the right hand margin. Tabled locations may be shifted. No justification on the left occurs, thus, the left margin will be ragged.

EXAMPLE

TYPED TEXT: +RJThis text will be shifted to the right under the right justification mode. Tabled positions will move along with unformatted strings. New line commands will cause the line to be shifted right.+NL +at10xxxxx+at30yyyy+at50zzzzz these columns are off.+n1 +at10xxxxx+at30yyyy+at50zzzzz+n1

PRINTED BY SCRIBE:

This text will be shifted to the right under the right justification mode. Tabbed positions will move along with unformatted strings. New line commands will cause the line to be shifted right. xxxxx yyyyy zzzz these columns are off. xxxxx yyyyy zzzz

4.3 Centéring

+CN, centering, computes the central point between the left and right margins and then subtracts half the length of the text to determine the starting column for the text.

EXAMPLE

TYPED TEXT: +CN Titles are Centered+n1 (Sub-Titles too)

PRINTED BY SCRIBE:

Titles are Centered (Subtitles too)

4.4 Even Margins

+EM, even margins, are obtained by evenly distributing the blanks left between the last character and the right margin, in between the words in the output line. The spaces are distributed from right to left.

EXAMPLE

TYPED: +EMEven margins look like this.+NE PRINTED: Even margins look like this.

These commands go into effect immediately when issued and remain in effect until another line justification command is issued (e.g., if centering is in effect and a +LJ command is issued, the current line will be left justified in the output line).

It is very important to realize that line justification requests go into effect immediately. If a line was generated in even margins mode and just before it was printed (with a +NL) a +RJ was issued, the resulting line will be printed right justified.

Only information between the margins is affected by line justification. Thus, information tabbed to the left of the left margin will not be moved.
CHAPTER 5. VERTICAL SPACING CONTROL

LI Line increment LS line spacing NE new line even margins NL new line PG go to a new page (see Section 2.2) PP new paragraph (see Section 3.2) SL skip lines or to new page

Unless otherwise stated, all commands that implicitly terminate a line do so by issuing an internally generated +NL (new line).

5.1 Carriage Control

+LS, line spacing, determines the number of lines skipped each time the carriage is returned. The default condition is single spacing (+LS1).

EXAMPLE

TYPED TEXT:

+1m10+rm50+p1+LS2This text will be double spaced. A new line spacing command should not be issued until the text it effects is in progress.

+1m20+rm40+n1 +LS1This text will be single spaced and indented. Care must be taken when switching back to double spacing mode. +LS2+1m10+rm50+n1 The instructions in this example will achieve the proper spacing.

PRINTED BY SCRIBE:

This text will be double spaced. A new

line spacing command should not be issued until the text it effects is in progress.

> This text will be single spaced and indented. Care must be taken when switching back to double spacing mode.

The instructions in this example will

achieve the proper spacing.

5.2 Line Termination (new line)

+NL, new line, and +NE, new line even margins, commands force the termination of any output line under construction. After the line has been printed the line output pointer is set to the left margin. If multiple +NL's are issued, multiple new lines will be printed.

The line termination commands are used when a limited amount of text is required on a printed line. If even margins are in effect, the use of the +NL command, or any command that forces a new line, will force the current output line to be left justified. If right justification or centering is in effect, the appropriate justification will be performed. If even margins are required, the +NE command can be used causing the partially completed line to be stretched to fill the space between the left and right margins.

EXAMPLE

TYPED TEXT: +1m15+rm45+em+NLNew line commands are a necessary part of text preparation. +NLThey are not needed for each and every line, only for the terminating lines of paragraphs. +NL +NL If even margins are required for the last line of the

CHAPTER 6. TYPE FACE CONTROL

BR black ribbon clear 'case' 0.0 LC force lower case NS no super/subscripting NU no underlining OP overprint the prior character RB red ribbon SB subscript SS superscript UC force upper case underline UN

6.1 Underlining

The +UN command is provided for underlining main line text on the servo printer. Its effect is terminated by the +NU command.

EXAMPLE

TYPED: These +UNtwo words +NU are underlined PRINTED: These two words are underlined

+UN, underline, backspaces and underlines all letters and numbers on the servo printer. To underline blank spaces use an underline character "_" in place of the spaces. To underline special characters, the overprint command (+OP) may be used.

+NU, no underlining, turns off underlining. When using this command place a blank before the command to insure a blank following the last word if you so desire.

EXAMPLE

TYPED: +UNAnd what's her history? A_blank,_my_lord+NU PRINTED: And what's her history? A_blank,_my_lord

6.2 Upper and Lower Case

As editing of the SCRIBE text may be done through a terminal incapable of lower case letters (e.g. a Datapoint 3300 or Datapoint 3360 running under Datashare), the commands +LC (force following letters to lower case), +UC (force following letters to

upper case), and +CC (clear "case" flags) give the operator this ability.

EXAMPLE

- TYPED: +1cTHESE LETTERS WILL APPEAR AS LOWER CASE. +UCthese letters will appear as upper case. +ccThese will appear as TYPED.
- PRINTED: these letters will appear as lower case. THESE LETTERS WILL APPEAR AS UPPER CASE. These will appear as TYPED.

6.3 Black and Red ribbon

+BR, black ribbon, and +RR, red ribbon, allows switching between colors on a two color ribbon on the servo printer. Text following a +BR command will be printed in black and that following a command will be printed in red. The default is black. The cloth and carbon ribbons are narrower than a two color ribbon and therefore characters put out as "red ribbon" may only be partially printed if a plain black ribbon is used.

5.4 Subscripts and Superscripts

+SS, superscript, will move the paper down on the servo printer 3 micropositions (three=eightths on a line space). +SB, subscript, will move the paper up 3 micropositions. +NS, no sub/superscripts, will return the paper to its original position before the +SS or +SB. A +SS or +SB can only be followed by a +NS command.

6.5 Overprint

+OP, overprint, will back up the serve printer carriage one space (over the prior character). The following character will then overprint the prior character. There is no limit to the number of accumulated overprints.

CHAPTER 7. PRINT SUPPRESSION

N1	turn	OFF	SW	itc	h	1					
N2	turn	OFF	SW	itc	h	2					
N3	turn	OFF	SW	itc	h	3					
NP	turn	off	pr	int	S	upp	ore	SS	1	on	
P1	print	on	1 y	11	SW	ite	ch.	1	i	S	on
P2	print	on	19	1 f	SW	ite	c h	2	1	S	on
P3	print	on	14	i f	SW	ito	:h	3	i	S	on
PL	purge	e 11	ne								
S1	turn	ON	swi	tch	1						
\$2	turn	ON	swi	tch	2						
\$3	turn	ON	swi	tch	3						

7.1 PRINT SUPPRESSION UNDER SWITCH CONTROL

It is possible to type up to three different pieces of text and allow the operator to enable printing of one or all of them from the 2200 keyboard.

7.1.1 Print Suppression Switches

+S1,+S2,+S3 are commands which turn ON the indicated switch 1, 2 or 3. These switches are only meaningful when used in conjunction with the print suppression (+P1,2,3) commands.

+N1,+N2,+N3 turn off the indicated switch. The default assumption is that all switches are DFF when SCRIBE starts.

7.1.2 Print Suppress Initialization

+P1,+P2,+P3 signify that the following text should be printed only if the corresponding switch is ON. If the switch is off, the text and all commands emmbedded in the suppressed text (except +NP) will be ignored.

+NP indicates the end of print suppressed text. The output line is adjusted for whatever text actually prints.

EXAMPLE

TYPED TEXT: The earth is +P1hollow+NP+P2round+NP+P3flat+NP. The poles so long sought are +P1but phantoms+NP +P2frozen+NP+P3unreachable+NP. There are +P1+unopenings +nu+NP+P2icebergs +NP+P3shear drops +NP at the northern and southern extremities.

PRINTED BY SCRIBE (with Switch 1 DN): The earth is hollow. The poles so long sought are but phantoms. There are openings at the northern and southern extremities.

PRINTED BY SCRIBE (with Switch 2 DN): The earth is round. The poles so long sought are frozen. There are icebergs at the northern and southern extremities.

PRINTED BY SCRIBE (with Switch 3 DN): The earth is flat. The poles so long sought are unreachable. There are shear drops at the northern and southern extremities.

7.2 Purge Line

+PL deletes the output line under construction and causes margins, which normally are not changed until the current line has been printed, to be reset immediately.

New line commands should preceed purge commands to reset margins - data could be lost. EXAMPLE

TYPED: +1m10+rm30+PLThis example resets the margins immediately.

PRINTED:

This example resets the margins immediately.

7.3 Page Search

Printing can be suppressed while the input file is searched for a specific physical page. (See +PR discussion in the section on Text Input/Dutput Control.)

CHAPTER 8. TEXT INPUT/OUTPUT CONTROL

CRT Display CD DD Disk Output D0 Open disk file as logical file 0 D1 Open disk file as logical file 1 Open disk file as logical file 2 D2 2741 Printer (PTTC/EBCD code) ED F O Switch to File 0 = (CRT in SCRIBE and DSCRIBE) F 1 Switch to File 1 - (Rear Tape in SCRIBE) F2 Switch to File 2 - (Front Tape in SCRIBE) FR Input File Return Local Printer Display LD PR Page Restart Rewind and Open File 1 R1 R2 Rewind and Open File 2 RD Remote Printer Display RS Restart All Input Buffers SD Selectric Typewriter Display 2741 Printer (Correspondence Code) XD Equate File 1 to 0 10 11 Equate File 1 to 1 Equate File 2 to 0 20 22 Equate File 2 to 2

8.1 Input Generation

SCRIBE input may come from a GEDIT compatible file on cassette or disk or typed in directly through the screen.

8.1.1 GEDIT

• •• •

GEDIT is a separate program which enables the user to create cassette tapes or disk files containing text and SCRIBE commands and to edit these tapes or disk files to make corrections or additions to the text. For detailed instructions on GEDIT operation, see the GEDIT Manual. A GEDIT command list is included in Appendix A of this manual.

CHAPTER 8. TEXT INPUT/OUTPUT CONTROL 8-1

8.1.2 Keyboard

One-time text may be directly prepared using the SCRIBE program. The operator types text and commands, just as with GEDIT. Instead of recording the accumulated line on tape or a disk file, SCRIBE will print that line on the output device.

Operator keyins may also be required for certain documents. For example, a form letter may require a name and address or perhaps a specific dollar amount.

8.2 Input Files

SCRIBE (Cassette SCRIBE Version 1 and 2) provides to the user three input Files from which text may be processed. These three input Files are:

0 - The Datapoint 2200 Keyboard

1 - The rear cassette transport

2 - The front cassette transport

DSCRIBE (Disk SCRIBE) also provides three input Files which are:

0 = The Datapoint 2200 Keyboard 1 and 2 = Disk files

DSSCRIBE (Datashare SCRIBE) provides three input files, all of which are on disk.

When SCRIBE or DSCRIBE is first loaded, the default input File is 0, the Datapoint 2200 Keyboard. The message "KEYIN:" is displayed on the bottom line of the CRT to which the user responds with commands and/or text.

When DSSCRIBE is first loaded, the default input File is 0, and is the file appearing in the Datashare Scribe Schedule File.

SCRIBE uses both the rear and front cassette transports to read input text. Cassettes produced by GEDIT may be read on either the rear or front transport by SCRIBE as long as there are no file-dependent commands in the text. 8.3 Input File Manipulation

Input files may be opened, rewound, selected, and/or logically switched as desired.

8.3.1 Input file initialization

The commands +R0 (DSSCRIBE only), +R1 and +R2 are used to rewind and open their respective files. When using SCRIBE, this command should be issued by the operator at least once per run of data in order to position the tape properly with respect to the beginning of the file. The commands may also be used to provide a recursive file that calls itself many times to print multiple copies of text.

EXAMPLE

```
+PL
This is the body of the text.
+PG+R1+F1
```

In the above example, the cassette is loaded into the rear transport (File 1) and opened with the operator commands +R1 and +F1. When the last line of text on the cassette is read, the same commands are read and the action is the same. Without any other file commands, this example would continuously produce the same output text.

8.3.2 Input Device Selection

With the +F0 (DSSCRIBE only), +F1, +F2 commands, the input text stream may be switched to another file to retrieve, as an example, names and addresses that have been entered through GEDIT and have SCRIBE commands within the text. As soon as the operator types +F1 or +F2 the specific file becomes the input file and SCRIBE will start processing the text and commands recorded on the file.

```
EXAMPLE

File 1:

+PL...+F2...+F2...+PG+R1+F1

File 2:

+PLname 1+F1address 1+F1

name 2+F1address 2+F1

name 3+F1address 3+F1

Operator:

+R1+R2+F1
```

In the above example, the operator rewinds both files, and begins processing the data with File 1. File 1 calls File 2 twice per page; once to retrieve the name; and the second time the address. File 1 rewinds and switches back to itself. This operation continues until an end of file is found in File 2.

By using the +10, +11, +20, or +22 commands (not available in DSSCRIBE), the operator can switch the logical input from File 1 or 2 to File 0, or restore the input associated with 1 or 2 back to 1 or 2.

EXAMPLE File 1: +PL...+F2...+F2...+PG+R1+F1 Operator: +20+R1+F1 Subsequent Operator input: name 1+F1 address 1+F1 address 2+F1 name 3+F1 address 3+F1

One additional command is available for input control; the +FR or File Return command. In the above example, the +F1 commands in the subsequent input could have been the +FR command instead, thus returning input to the file that called for manual input. This is useful if several files call File 0 for manual input.

To discard all input buffers, the command +RS should be used, as this will close Files 1 and 2 and switch to File 0 immediately. Use this command only in preparation for new runs of data after previous runs have been made. This command restores the format control assumptions to their original values.

8.3.3 Input Disk File Selection

When executing DSCRIBE, file names may be entered on the command line. For example, by typing:

DSCRIBE LETTER, ADDRESS

DSCRIBE would be executed with file LETTER/TXT opened as logical file 1 and ADDRESS/TXT opened as logical file 2. Once into DSCRIBE or DSSCRIBE, the commands +D0<filespec1> (DSSCRIBE only), +D1<filespec2>, and +D2<filespec2> are used to specify disk files as logical files. The file specification assumes 'TXT' if an extension is not given (DSSCRIBE will not accept any extension other than 'TXT'). If a drive number is not given, all drives will be searched.

A logical file may assign another file to the same logical file number as long as the commands to open and to transfer control are on a single line (i.e., appear on one screen line when the file is generated by the editor). For example, chapters of a book may be kept in separate files on the disk for ease of editing. The files can be automatically linked to each other by terminating each file with the commands:

+D1<next chapter file name>+F1

The user would type in the commands to specify the first chapter as file 1 (e.g., +D1CHAPT1+F1) and subsequent chapters would automatically be printed.

8.4 Output Facilities

SCRIBE will display the resultant text on one of six output devices, an IBM Model 735 Selectric Typewriter, the Datapoint Processer CRT, the Datapoint 3200 Thermal Printer, Datapoint Serial or Line Printer, Datapoint 9250 Servo Printer, or a PTTC/EBCD- or correspondence-coded IBM 2741 Communications Terminal. The default output device when SCRIBE Version 1 is first loaded is the Selectric typewriter. The default output device for SCRIBE Version 2 or for DSCRIBE is the Processer CRT. The user must issue a command to indicate a different device. The only output

CHAPTER 8. TEXT INPUT/OUTPUT CONTROL

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device that may be used with DSSCRIBE is the Servo Printer.

To speed up the printing of the text, all output to the printer or typewriter is overlapped with the setting up of the next three lines. As much overlap as possible is done, although there are times the mechanism will pause due to internal line justification processing.

8.4.1 Selectric Typewriter

+SD causes the output to be printed on a 735 Selectric typewriter, interfaced to the Datapoint 2200 through a selectric interface. If there is no Selectric interface, or if the Selectric typewriter is not turned on, the message "OUTPUT DEVICE NOT AVAILABLE" will be displayed. The Selectric is the default assumption for output. If it is not available when SCRIBE is first started, the output will be switched to the CRT. If the Selectric is not available when the +SD command is received, the output will be switched to the previously selected output device.

8.4.2 The CRT Display

+CD switches the output to the CRT. When using the CRT display, the user will receive a fast, clear picture of the output text as it would appear on the printer or typewriter. Once a line has been constructed, it is displayed, although the operator may delay the display by depressing the DISPLAY switch. The DISPLAY light is turned on, indicating that a line is ready to be displayed.

8.4.3 The Remote Printer Display

+RD switches the output to a remote printer. In this mode, all output is directed to the 3200 Thermal Printer attached to the 9400 Communications Adaptor. Any serial ASCII printer, which will run at 300 baud, can be attached. The +RD command sets up the interface to 300 baud and stores the +RD option for the output line handler. If no communications adaptor is attached, the message "DUTPUT DEVICE NOT AVAILABLE" will be displayed and the output will be switched to the previously selected device.

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8.4.4 The Local Printer Display

+LD switches the output to a local printer and does a form feed. In this mode, all output is directed to the Serial Printer or the Line Printer directly attached to the Processer. If the printer does not have lower case capability and does not convert lower case to upper case, precede the SCRIBE text with +UC (force following text to upper case). Underlining will not appear. Since the Selectric typewriter has the same device address as a local printer, if a local printer is present no error message will be displayed when the program checks for the presence of the Selectric at initialization. The operator must still issue the +LD command to insure proper printing.

8.4.5 The Servo Printer Display

+DD switches the output to the Servo Printer (9250) and does a form feed if the printer is not at the top of the page. The +DD may be followed by one to three digits (1-132) which are an absolute margin position (like moving the paper guide on a typewriter). When the command is executed, the printer will move that many places to the right of the rest position and all subsequent printing will be relative to this position.

The +AM command (Absolute Margin) does exactly the same thing as +DD except it does not do a form feed. It allows setting up the absolute margin in DSSCRIBE where the output device need not be selected (Servo Printer is the default). If +AM is used in DSCRIBE or SCRIBE Ver.2, it will select the Servo Printer.

8.4.6 The IBM 2741 Display

+ED switches the output to a PPTC/EBCD=coded IBM 2741 attached to the 9400 Communication Adaptor. +XD switches the output to a correspondence coded IBM 2741. The 2741 must be properly set up before this command is issued, or else data will be transmitted to the 2741 but will be ignored. Follow this procedure:

Turn the 2741 on.
 Place the mode switch in CDM, not LOCAL.
 Use the SCRIBE command +ED or +XD as

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appropriate.

The 2741 is used only as an output device connected locally to the communications adaptor. If the 2741 is placed back in the LOCAL mode, the user must repeat the above proceedure starting at step 2.

8.4.7 Disk Output

If DSCRIBE is executed with a third file specification in the command line or a +DO (NOT +DOL) command is given followed by a file specification, then that file will be opened on disk and all SCRIBE output will be directed to that file in GEDIT compatible format. If the file existed on an on-line drive, it will be overwritten, otherwise a new file will be opened. The default file extension is "SCR" if one is not given, and the default drive is zero. "Page continuous" mode is also set. For example:

DSCRIBE CHAP1, MANUAL1

will open MANUAL/SCR:DRO as the output file. Putting +DDMANUAL in the SCRIBE text will accomplish the same thing.

8.5 Preparing Rough Drafts

To check the appearance of the output, the user should initially switch the output to the CRT (using the +CD command). This will enable him to check the format visually.

To prepare a double-spaced hard-copy version, the operator should select his input and output devices. Before actually switching to the input file, type +LS2, this will cause the data to be printed double spaced.

EXAMPLE

+r2+sd+1s2+f2 These commands will initialize the front cassette, select the Selectric typewriter for output, cause the output to be double=spaced and switch the input to the front cassette for printing.

If it becomes necessary to get a printout of the input file complete with commands, the +A0 (DSSCRIBE only), +A1, and +A2 commands will transfer the input to the specified file, 0, 1, or 2, and indicate that it is to be printed "as is". No formatting will take place. However, left margin, justification other than even margins, body length and line spacing in effect before the as is command is issued, will be applied to the output. All text, including escape lines (+##"s), is printed by the +A1 or +A2 command. Entering a +## when a "KEYIN: " is requested will return control to the operator.

8.6 Operator Comments

With the command +**, the text File has the ability to communicate with the operator of the 1100 or 2200. When this command is issued, the processor will beep, the input line is displayed to the operator, and the rest of the line is ignored as input text. Such comments should tell the operator what cassette File he is using or what forms to use.

EXAMPLE

+** This is the first data cassette for project 101. +** Please insert special forms number 137A. +** Thank you. JRL.

+F0 (operator then inserts forms and types +FR).

8.7 Print Termination

The operator of the Datapoint 2200 may terminate any run by depressing, then releasing, the KEYBOARD switch. When this occurs, an automatic +RS command is issued and control passes to input File 0. The output buffers that are waiting to print will print, but some input text will be lost when the input buffers are purged. Pressing the KEYBOARD switch on the Datashare SCRIBE 1100 Terminal will terminate the processing immediately and it will then wait for the next file. Pressing the DISPLAY switch on the Datashare SCRIBE 1100 Terminal will turn on the Page Halt option causing the printing to wait at the end of the page.

8.8 Partial Printing and Recovery Procedure

+PRnnn, page restart, enables the operator to suppress printing until the physical page specified is reached. This is useful while you are still preparing drafts of a document or when changes do not effect the begining of the text. Printed page numbers will still reflect the actual page number, if page numbering is specified. The data tape should always be reminitialized before switching input to

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the tape file.

EXAMPLE

+r2+PR5+f2 These commands will initialize the front cassette, suppress printing until physical page 5 is reached, and switch the input to the front cassette.

8.9 Returning to the Operating System

The command +OS used in DSCRIBE will reload the Disk Operating System after clearing out the print buffers and transfer control to it. The Disk Operating System will identify itself and await a keyed input.

APPENDIX A. GEDIT Command List

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COMMAND	EFFECT
: A	Copy pointed line to bottom of screen as if keyed in.
:8	Bypass the end of the text file.
: C	Copy pointed line to bottom of screen and erase line in pointed position, leaving cursor at the cleared line.
: D	Delete pointed line and leave cursor at the cleared line
: E	Complete the update of the tape
: E★	Go to the end of the text file and display the last eleven lines on the screen.
:E/	Complete update without copying the remainder of the source tape.
:F	Search file for line starting with specified text.
:1	Create a blank line at the pointed line by rolling up the pointed line and all lines above it.
: L	Search file for line containing the specified text.
: M	(old text) < (new text) replace
	(old text) > (new text) insert
۲	(old text) (new text) append
:SB	Erase the screen from the pinter down, inclusive.
:SC	Erase the screen from the pointer up, inclusive,
: T	Reset the GEDIT tab positions.

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A - 1

Reset the key inversion and reset tab positions.

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1 X

APPENDIX B. Default Conditions

General SCRIBE Default Conditions

Switches Tabs Paragraph Indentation Setting Left Margin Right Margin Absolute Left Margin Underlining Page Numbering Line Justification Line Spacing

OFF None 5 columns Column 1 Column 60 Column 60 OFF OFF Left Justification Single Spacing

SCRIBE Ver.1 Default Conditions

Key Inversion Heading Length Body Length Footing Length Page Continuous Input File Output Device OFF 3 lines 53 lines 7 lines OFF Zero (2200 Keyboard) Selectric Typewriter

SCRIBE Ver.2 Default Conditions

Key Inversion Heading Length Body Length Footing Length Page Continuous Input File Output Device OFF 6 lines 53 lines 7 lines OFF Zero (2200 Keyboard) CRT (2200 Screen)

DSCRIBE Default Conditions

Key Inversion Heading Length Body Length Footing Length Page Continuous Input File Output Device ON 3 lines 53 lines 10 lines OFF Zero (2200 Keyboard) CRT (2200 Screen)

DSSCRIBE Default Conditions

Heading Length Body Length Footing Length Page Continuous Input File Output Device 3 lines 56 lines 7 lines UN Disk File Zero Servo Printer

APPENDIX C. Program Messages

SCRIBE1.1

The initial message from SCRIBE. This message is displayed only once; when the program is first loaded into memory.

KEYIN:

This message indicates that the input is File 0, the Datapoint 2200 keyboard. The operator may enter any text as if it came from one of the files. It is normally during this mode that rewind and File switch, output initilization, and page control commands are issued. If the +10 or +20 commands have been issued, this message will be displayed if a switch to File 1 or 2 has occurred. The user then issues the +FR command to return to the calling file.

END OF FILE. n

This message indicates that an end of file has been reached on input File n. At this point, input is switched back to File 0 for continued processing.

INTERNAL ERROR. x

This message indicates that the file input routines have found an ERROR of type x. Processing is aborted at this time. It is best to check your files or re=create the text file.

- INTERNAL ERROR B or G = the file is not properly formatted. You may not have initialized with a +R1 or +R2 command. The file may not have been created by GEDIT. The text file may not be properly terminated.
- INTERNAL ERROR D a parity error has been encountered. This is a physical error on the file. Use GEDIT to "repair" or recreate the file.

COMMAND ERROR.

This message indicates that the command processing routines would not accept the command displayed. Check for misplaced +'s, or numeric fields out of range.

C=1

NEW PAGE?

This message indicates that a new page is now ready to begin and the +PH command has been issued. The user should change or adjust the paper in the output device and press ENTER. Typing a "C" before pressing ENTER will switch from page halt to page continue mode. Typing any other letter before pressing ENTER will cause an abort of the current printing and will return control to the 2200 operator.

OUTPUT DEVICE NOT AVAILABLE.

This message may appear when SCRIBE is first loaded. Check that the correct command has been typed. If a Selectric typewriter is not available, the output will automatically be switched to the CRT display. The message may also appear in response to a +ED,+LD,+RD,+SD,+DD, or +XD command. In which case, the device selected is not available. Check the connections and power switches. Dutput will automatically be switched to the previously selected device.

OUT OF PAPER. HIT "ENTER" WHEN READY.

This message is displayed if the output device is the servo printer in page continuous mode and the paper sensor (light at the left rear) senses the lack of paper. The printer stops at the top of a page to facilitate alignment of more paper. DO NOT hit FORMFEED for the printer will loose its absolute margin. After paper has been inserted and aligned, hitting the "ENTER" key will cause printing to continue.

APPENDIX D. Command Errors

Illegal commands may result from improperly typed command letters or extraneous plus signs in your text. Legal commands with improper numbers will also cause errors.

A1	file 1 has not been opened
A2	file 2 has not been opened
AL	range 1-132
AM	range 1-132
AR	range 1-132
AT	range 1=132
DD	range 1-132
F1	file 1 has not been opened
F2	file 2 has not been opened
FR	there is no file to return to
LM	range 1=132
LS	no number or zero specified
NS	NS already in effect
PR	page number must be greater than 1
PS	no number or zero specified
R1	file 1 has not been opened
R2	file 2 has not been opened
RM	range 1-132
RN	number greater than 15
SB	NS not in effect
SI	range 1-80
SL	no number or zero specified
SP	maximum 132
SS	NS not in effect
TB	no more tabstops set or a +NL was omitted
TR -	no more tabstops set or a +NL was omitted
TS	range 1=132. Twenty tabstops may be set.

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APPENDIX E. Data Preparation Conventions

GEDIT Conventions:

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Preparing SCRIBE text files will be facilitated if the text and SCRIBE commands are entered according to the following rules:

- Each paragraph and each key line of text, e.g., section titles, should start at the left edge of the screen with no SCRIBE commands preceding the text. GEDIT command FIND searches for leading text.
- 2. Long groups of SCRIBE commands should be placed on lines by themselves so they can be spotted and easily changed.
- 3. The TAB facility of GEDIT should be used only when typing "as is" text, since multiple spaces will be discarded by SCRIBE. However, GEDIT tabstops may be set and used to help the operator determine the correct settings to specify for SCRIBE. The test line should be deleted once the desired tabstop values have been determined.
- 4. Extremely long documents should be broken up into several files. This will speed up both editing and partial reprinting. Once a document is finalized, multiple files can be merged into one long file.
- 5. Remember, hitting the enter key is like typing a space at the end of the line.

SCRIBE Conventions:

There are certain commands which should not be included as part of the file - but should generally be options for the operator to type in:

- 1. Selection of the output device
- 2. Continuous paging
- 3. Switch setting (to override print suppression)
- 4. Overall line spacing = if set only once
- 5. Body length, again, if set only once.

Certain initialization and termination conventions should be

used to insure that documents which have been prepared on multiple cassettes will be printed properly. They are:

- If continuous forms are used, start only the first file with a page normalize command. However, if non-continuous paper is used, start each file with a page normalize command (+PN). This does not disturb page numbering and insures the printing on the first page of the file is positioned like all subsequent pages.
- 2. End each file with a +PG command to insure the last page number will be printed and that the page number will be updated before the next tape is printed.
- 3. If section-type page numbers and headings are being used, the commands between the end of one section and the beginning of the next should look like:

+PN +BH SECTION 1 +PB01=01 • • +NH +PG +PB02=01 +BH SECTION 2

In this example, page numbers will not be changed until the last page of Section 1 is printed. No header will appear on the first page of Section 2, but all subsequent pages of the section will have the specified header.

If section 2 is on a separate file, follow the conventions described in (1) above.

Some other conventions will avoid confusion during initial preparation of the text and will facilitate making changes later:

- Try to avoid absolute tab commands, since each +AT must be individually changed. Instead, use the tab set and tabulate commands (+TS,+TB).
- 2. Always reset tabs by performing a tab clear (+TC) and then the necessary tab set (+TS) commands.

APPENDIX F. Common Pitfalls

At times, the printed copy may not look anything like you expected. The errors are sometimes difficult to detect. Examples of some common mistakes are:

1. Tabbing past the right margin causes a carriage return and places the tabbed text at the left margin.

EXAMPLE

TYPED TEXT:

+tc+ts10+ts40+ts60 +tb2200-200+tb000-110-101-A+tbSerial Printer+n] +tb2200-220+tb000-110-101-B+tbLine Printer+n]

 PRINTED BY SCRIBE:
 2200-200
 000-110-101-A
 Serial

 Printer
 2200-220
 000-110-101-B
 Line

 Printer
 000-110-101-B
 Line

2. Tabbing backward will cause the data past the final output pointer to be lost.

EXAMPLE

TYPED TEXT: +at40xxx+at50yyy+at10zzz+n1 PRINTED BY SCRIBE: zzz

If tabbing in this manner is necessary, an additional tab to the end of the data in the line will insure all text is printed.

EXAMPLE

TYPED TEXT: +at40xxx+at50yyy+at10zzz+at53+n1

PRINTED BY SCRIBE:

ххх ууу

3. The data following a tab and right justify command (+TR) must be terminated by a +NR, another +TR, or some form of new line command. If the field appears at the end of a line on a GEDIT tape, pressing the ENTER key will cause an extra space to be generated. This space will cause the field to appear shifted left one extra space.

EXAMPLE

TYPED TEXT: +tc+ts10+ts20+ts30 +tr123+tr456+tr7777+n1 +tr22+tr122 +tr3333+n1+tr44444 +tr3232+nr +tr55555+n1

PRINTED	BY	SCRIBE:	
123		456	7.777
55		122	3333
44444		3232	55555

Normal tabbing (+TB) immediately after +TR commands will cause the data to the left of the tab to continue shifting. Your output might look like this:

EXAMPLE:

TYPED TEXT: +tc+ts10+ts20+ts30+ts40 +tb1+tb2+tb3+tb4+n1 +tb0123456789012345678901234567890123456789+n1 +tb111+tr222+nr+tbthis line is ok+n1 +tb222+tr22+tbbut this is messed up+n]

PRINTED BY SCRIBE: 1 2 3 4 0123456789012345678901234567890123456789 111 222 this line is ok but this line is messed up

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APPENDIX G. SCRIBE EXAMPLES

Example 1 = Simple Text This example demonstrates how few commands are needed to prepare simple text. The default assumptions (see Appendix B) for margins, line spacing, etc. will generate text in a standard report format. Commands used to generate this example are:

+PP, to start a new paragraph +NL, to start a new line

The +PP command incorporates printing the last line of a paragraph, skipping a specified number of lines and indenting five columns (the default assumption for paragraph indentation).

+PN, start at the top of a page +PB, page number at the bottom of the page

The +PN command should preceed every tape file. This command instructs SCRIBE to perform the start of page processing (header space, heading, page numbers) immediately.

+PB initiates page numbering at the bottom of the page. New pages will be generated automatically when 53 lines (the body length default assumption) have been printed.

The user prepares a tape (using the GEDIT program) in the form of PART 1 of this example. Then, using the SCRIBE program, he places his data tape in the front tape transport of the 2200 and types these two commands: +r2+f2. SCRIBE will then read the data tape and print it, in the form of PART 2, on a Selectric typewriter.

The following excerpt is from Outdoors USA published by the United States Department of Agriculture.

PART 1 - INPUT TO SCRIBE

+pn+pb 314wHEN THE RECREATION BUG BITES+NL Ross H. Mellinger+pp2 "The hottest thing right now is the use of land for recreation! This is good news for the city dweller who wants to get out into the great outdoors. It means fishing, swimming, and boating, horseback riding, picnicking, camping, and hunting for him and his family and perhaps for a club he belongs to."+pp1 That's Tom Simpson speaking. He's a professional in the land use field, and he knows what he's talking about.+pp1 Tom is a soil conservationist for the Agriculture Department's Soil Conservation Service. But he deals with lots more people than farmers.+pp1 He has advice for folks who buy land for part=time country

living, for weekend retreats, or even for full-time country living. Many of these people buy farmland, but don't want to farm it. Neither do they want to chop it up into subdivisions because they like the beauty of their outdoor landscape and want to preserve it. And farmers, too, are doing things with their land besides growing crops. +pp1

But let Tom tell about it. Farming is close to his heart, and he likes to take farmland as an example of what can be done by landowners to make money from outdoor recreation. And his advice can be used by any landowner with enough property to give folks outdoor elbowroom close to home.+pp1

"I'd like to tell you about the Burton place," Tom commences, tipping back his smart field cap.+pp1

"The place is owned by Sam Burton the third generation of Burtons on their 250-acre, 40-cow dairy farm up the Little Kanawha River a bit from Parkersburg, W. Va. The Burtons have always been kind to their land. In fact, Sam was the first farmer to develop and apply a conservation plan with the help of the newly organized Little Kanawha Soil Conservation District.+pp1 "But things are changing now on the Burton place. Sam and his wife Mildred, bitten by the recreation bug, asked me to come up and talk about recreation as a possible main source of income. +pp1

"We started with the soil map for their place. It showed the suitability of soils for different kinds of recreation facilities. +pp1 "The Burtons made it plain that they weren't going to give up farming entirely. They did want to change from dairy to beef cattle if the recreation angle looked promising. Sam told me the family had spent evenings talking about the problems involved. They had asked themselves such questions as:+pp1 * Would they enjoy working with all kinds of people and enduring the many problems that were sure to crop up?+pp * Could they give up their Sundays and holidays and reconcile their deep religious beliefs with Sunday work?+pp * Could they depend on their children to help out, and how long would it be until they would be off to school or taking other jobs?+pp* Would the additional income and kind of work attract their oldest son John to stay on the place under a two-family arrangement?+pp* How much would the changeover cost, and what would be the expected finacial returns?+pp1 "With these basic questions partially answered, Sam was interested in what kinds of enterprises would best fit their land, resources, and personalities.+pp1

"We started down at the river which stretches for more than half a mile along the Burton place. This is a good fishing stream, but not big enough for operation of powerboats or water skiing. One place offered possibilities for a small bathing area. Boat rentals for fishing and pleasure could be included.+pp1

PART 2 - OUTPUT BY SCRIBE

WHEN THE RECREATION BUG BITES Ross H. Mellinger

"The hottest thing right now is the use of land for recreation! This is good news for the city dweller who wants to get out into the great outdoors. It means fishing, swimming, and boating, horseback riding, picnicking, camping and hunting for him and his family and perhaps for a club he belongs to."

That's Tom Simpson speaking. He's a professional in the land use field, and he knows what he's talking about.

Tom is a soil conservationist for the Agriculture Department's Soil Conservation Service. But he deals with lots more people than farmers.

He has advice for folks who buy land for part-time country living, for weekend retreats, or even for full-time country living. Many of these people buy farmland, but don't want to farm it. Neither do they want to chop it up into subdivisions because they like the beauty of their outdoor landscape and want to preserve it. And farmers, too, are doing things with their land besides growing crops.

But let Tom tell about it. Farming is close to his heart, and he likes to take farmland as an example of what can be done by landowners to make money from outdoor recreation. And his advice can be used by any landowner with enough property to give folks outdoor elbowroom close to home.

"I'd like to tell you about the Burton place," Tom commences, tipping back his smart field cap.

"The place is owned by Sam Burton = the third generation of Burtons on their 250-acre, 40-cow dairy farm up the Little Kanawha River a bit from Parkersburg, W. Va. The Burtons have always been kind to their land. In fact, Sam was the first farmer to develop and apply a conservation plan with the help of the newly organized Little Kanawha Soil Conservation District.

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"But things are changing now on the Burton place. Sam and his wife Mildred, bitten by the recreation bug, asked me to come up and talk about recreation as a possible main source of income.

"We started with the soil map for their place. It showed the suitability of soils for different kinds of recreation facilities.

"The Burtons make it plain that they weren's going to give up farming entirely. They did want to change from dairy to beef cattle if the recreation angle looked promising. Sam told me the family had spent evenings talking about the problems involved. They had asked themselves such questions as:

* Would they enjoy working with all kinds or people and enduring the many problems that were sure to crop up? * Could they give up their Sundays and holidays and reconcile their deep religious beliefs with Sunday work?

* Could they depend on their children to help out, and how long would it be until they would be off to school or taking other jobs?

* Would the additional income and kind of work attract their oldest son John to stay on the place under a two=family arrangement?

* How much would the changeover cost, and what would be the expected financial returns?

"With these basic questions partially answered, Sam was interested in what kinds of enterprises would best fit their land, resources, and personalities.

"We started down the river which stretches or more than half a mile along the Burton place. This is a good fishing stream, but not big enough for operation of powerboats or water skiing. One place offered possibilities for a small bathing area. Boat rentals for fishing and pleasure could be included.

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Example 2 - Elaborate Text

The text in this example is somewhat more complex. Instead of relying on the default assumptions, the following new commands are used:

+CN, to center the heading +EM, to justify the text between the margins +LM, to indent text and then to restore the margins +RM, to the default value +AL, change the left margin for page numbering to cause page numbers to be placed at the right edge of the page

The following example is taken from The President's Commission on The Assassination of President Kennedy Report.

SCRIBE, DSCRIBE, AND DSSCRIBE

G=6

PART 1 - INPUT TO SCRIBE

+pb 208+a155

+pn+cnTHE ABORTIVE TRANSFER+pp2+em In Dallas, after a person is charged with a felony, the county sheriff ordinarily takes custody of the prisoner and assumes responsibility for his safekeeping. Normally, the Dallas Police Department notifies the sheriff when a prisoner has been charged with a felony and the sheriff dispatches his deputies to transport the accused to the county jail. This is usually done within a few hours after the complaint has been filed. In cases of unusual importance, however, the Dallas city police sometimes transport the prisoner to the county Jail.+ppThe decision to more Oswald to the county jail on Sunday morning was reached by Chief Curry the preceding evening. Sometime after 7:30 Saturday evening, according to Assistant Chief Batchelor, two reporters told him that they wanted to go out to dinner but that ""they didn't want to miss anything if we were going to move the prisoner."" Curry came upon them at that point and told the two newsmen that if they returned by 10 ofclock in the morning, they wouldn't ""miss anything."" A little later, after checking with Captain Fritz, Curry made a similar announcement to the assembled reporters. Curry reported the making of his decision to move Oswald as follows: +1m5+rm55+pp1

Then, I talked to Fritz about when he thought he would transfer the prisoner, and he didn't think it was a good idea to transfer him at night because of the fact you couldn't see, and if anybody tried to cause them any trouble, they needed to see who they were and where it was coming from and so forth, and he suggested that we wait until daylight, so this was normal procedure, I mean, for Fritz to determine when he is going to transfer his prisoners, so I told him ""Okay,"" I asked him, I said, ""What time do you think you will be ready tomorrow?"" And he didn't know exactly and I said, ""Do you think about 10 o'clock,"" and he said, ""I believe so,"" and then is when I went out and told the newspaper people * * * ""I believe if you are back here by 10 ofclock you will be back in time to observe anything you care to observe."" +1m1+rm60+pp1During the night, between 2:30 and 3 a.m., the local office of the FBI and the sheriff's office received telephone calls from an unidentified man who warned that a committee had decided ""to kill the man that killed the President."" Shortly after, an FBI agent notified the Dallas police of the anonymous threat. The police department and ultimately Chief Curry were informed of both threats.

+pplImmediately after his arrival at the building on Sunday morning between 8:30 and 8:45 a.m., Curry spoke by telephone with Sherifi J.E. Decker about the transfer. When Decker indicated that he would leave to Curry the decision on whether the sheriff's office or the police would move Oswald, Curry decided that the police would handle it because ""we had so much involved here, we were the ones that were investigating the case and we had the officers set up downstairs to handle it.""

PART 2 - OUTPUT BY SCRIBE

THE ABORTIVE TRANSFER

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G=9
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G-10 SCRIBE, DSCRIBE, AND DSSCRIBE

Example 3 - Tabulation

The following table is prepared using the tabulation facilities of SCRIBE. The new commands utilized are:

+TC, tab clear +TS, tab set +TB, tabulate +AT, place text at specified column +SP, place multiple spaces in the line

The following table is from Agriculture Handbook No. 8.

PART 1 - INPUT TO SCRIBE

+rm100+pn+cnSTANDARDS FOR ENRICHMENT:+n] Minimum and Maximum Amounts of RequiredNutrients Specified for Foods Labeled "Enriched"+nl(Milligrams per pound of product)+nl+lj +tc+ts40+ts45+ts50+ts55+ts60+ts65+ts70+ts75+ts82+ts87 +at20Item+at40Thiamine+sp2Riboflavin Niacin+at72Iron+at83Calcium+n1 +at40Min+sp2Max+sp2Min+sp2Max+sp2Min+sp2Max +sp2Min+sp2Max+sp3Min+sp3Max+n1 +nlBread, rolls, and buns, white+tb1.1+tb1.8+tb0.7+tb1.6+tb10.0 +tb15.0+tb08.0+tb12.5+tb---+tb---+n1 Cornmeal; corn grits+tb2.0+tb3.0+tb1.2+tb1.8+tb16.0+tb24.0;tb13.0 +tb26.0+tb===+tb====+n1 Cornmeal, self=rising+tb2.0+tb3.0+tb1.2+tb1.8+tb16.0+tb24.0+tb13.0 +tb26.0+tb500+tb1,750+n1 Farina+tb2.0+tb2.5+tb1.2+tb1.5+tb16.0+tb20.0+tb13.0+tb+sp1(3) +tb===+tb===+n] Flour, white+tb2.0+tb2.5+tb1.2+tb1.5+tb16.0+tb20.0+tb13.0+tb16.5 +tb===+tb===+n] Flour, self=rising+tb2.0+tb2.5+tb1.2+tb1.5+tb16.0+tb20.0+tb13.0 +tb16.5+tb500+tb1,500+n1 Macaroni products; noodle products+tb4.0+tb5.0+tb1.7+tb2.2+tb27.0 +tb34.0+tb13.0+tb16.5+tb===+tb===+n1 Rice, milled+tb2.0+tb4.0+tb1.2+tb2.4+tb16.0+tb32.0+tb13.0+tb26.0 +tb===+tb====+n]

NOTE: By simply changing the heading and tabstops, the order of columns can be switched. Care must be taken when setting tabs in other than ascending order, since, when a new line command is issued, no data past the current output pointer (e.g. the last tabstop) will be printed.

APPENDIX G. SCRIBE EXAMPLES G-11

PART 2 - OUTPUT BY SCRIBE

STANDARDS FOR ENRICHMENT:

Minimum and Maximum Amounts of Required Nutrients Specified for Foods Labeled (Milligrams per pound of product)

Item	Thia	min	Riboflavin		Niacin		Iron	
	Min	Max	Min	Max	Min	Max	Min	Max
Bread, rolls, and buns, white	1.1	1.8	0.7	1.6	10.0	15.0	08.0	12.5
Cornmeal; corn grits	2.0	3.0	1.2	1.8	16.0	24.0	13.0	26.0
Cornmeal, self=rising	2.0	3.0	1.2	1.8	16.0	24.0	13.0	26.0
Farina	2.0	2,5	1.2	1.5	16.0	20.0	13.0	(3)
Flour, white	2.0	2.5	1.2	1.5	16.0	20.0	13.0	16.5
Flour, self-rising	2.0	2.5	1.2	1.5	16.0	20.05	13.0	16.5
Macaroni products;noodle products	4.0	5.0	1.7	2.2	27.0	34.0	13.0	16.5
Rice, milled	2.0	4.0	1.2	2.4	16.0	32.0	13.0	26.0

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Example 4 - Right Justified Tabulation

Frequently right justification of tabled information is necessary. Instead of using the +TB command, a new command must be used:

+TR, tabulate and right justify -

+SL, skip the specified number of lines

NOTE: set the tabstops at the right limit of the field since the data will be shifted to the left from this point.

This example is from The President's Commission on The Assassination of President Kennedy Report.

PART 1 - INPUT TO SCRIBE

```
+pn+cnAnalysis of Lee Harvey Oswald's Finances+n1
From April, 1963, +nlThrough June, 1963+nl+l]
+1m4+rm70+pn+at50Expendi=+n1+at1April 1963:+at40Receipts
+at51atures+at60Ba1ance+n1+tc+ts47+ts57+ts67
Net salary+tr$108.86+n1
Income Tax refund+tr57.40+n]Rent and utilities
+tb+tr$62.97+n1Bus fare from Dallas to New Orleans+tb
+tr13.85+nlEstimated cost of food, clothing, and incidental
+n1+sp2expenses
                        _+tr____+n]+sp5Tot]a+tr166.26+tr176.82+n]
+tb+tr100.00+n1+tr___
Cash on hand, Apr. 30, 1963+tb+tb+tr$174.14+s11
+at1May 1963:+n1Net salary+tr107.44+n1Unemployment compensation
check+tr33.00+n1Rent and utilities+tr----+tr75.00+n1
Subscription for the Militant+tr=====+tr1.00+n1
Dues and printing=Fair Play for Cuba+tr=====+tr9.00+n1
Estimated cost of food, clothing, and incidental+n1+sp2expenses
+tr----+tr100.00+n]
       +tr_____+n]+sp5Total+tr140.44+tr185.00+n1
+tr_____
Cash on hand, May 31,1963+tb+tb+tr129.58
+sl1+at1June 1963:+nlNet salary+tr216.00+nl
Rent and utilities+tr=====+tr67.85+n1
Post office box rental+tr=====+tr4.00+n1
Printing-Fair Play for Cuba+trossessestr15.23+n1
New alien registration card+tr=====+tr5.00+n1
Estimated cost of food, clothing, and incidental+nl+sp2expenses
+tr=====+tr100.00+n1+tr_+tr_+tr_+n1+sp5Tota1+tr216.00+tr192
Cash on hand, June 30,1963+tb+tb+tr153,50+n1
PART 2 - OUTPUT BY SCRIBE
```

Analysis of Lee Harvey Oswald's Finances From April, 1963, Through June, 1963

		Expendi=	
April 1963:	Receipts	tures	Balance
Net salary	\$108,86		
Income Tax refund	57.40		
Rent and utilities		\$62.97	
Bus fare from Dallas to New Orleans		13.85	
Estimated cost of food, clothing, and			
incidental expenses		100.00	
Total	166.26	176-82	
Cash on hand, Apr.30,1973			174-14
Mav 1963:			
Net salarv	107.44		
Unemployment compensation check	33.00		
Rent and utilities	******	75.00	
Subscription for the Militant	*****	1.00	
Dues and printing-Fair Play for Cub	*******	9.00	
Estimated cost of food clothing and	-		
incidental expenses	*****	100.00	
Total	140.44	185.00	
Cash on hand, May 31,1963	• • • •		129.58
June 1963:			
Net salary	216.00		
Rent and utilities	****	67.85	
Post office box rental	******	4.00	
Printing-Fair Play for Cuba		15.23	
New alien registration card	*****	5.00	
Estimated cost of food, clothing and			
incidental expenses	*****	100.00	
Total	216.00	192.08	
Cash on hand, June 30, 1963			153.50

Example 5 - A Poem

This example utilizes the following commands:

+CN, to center the heading, +LJ, to left justify the text, +NL, to begin a new line, +IS, to set the paragraph indentation, and

The "+CN" command will center the output text line when the line is ready to print, such as with a "+NL" command. This command takes effect immediately and will be revoked when the "+LJ" command is issued to revert back to left justify mode, that is to line up the first text on the line at the left margin when a command such as "+NL" is issued.

The "+NL" command is used to print the current output line and begin a new line at the left margin. If centering is selected, the output line will be centered between the current margins.

The "+IS" command sets the value of the paragraph indentation setting. When the "+PP" command is issued, the first text that is placed on the output line is computed as the left margin location plus the current value of the paragraph indentation.

The operator would use the same commands as in example 1.

PART 1 - INPUT TO SCRIBE +pn+cnJABBERWOCKY +sl1+lj+is2'Twas brillig, and the slithy toves +ppDid gyre and gimble in the wabet +nlAll mimsy were the borogoves, +ppAnd the mome raths outgrabe. +sl1""Beware the Jabberwock, by son! +ppThe jaws that bite, the claws the catch! +nlBeware the Jubjub bird, and shun +ppThe frumious Bandershatch1"" +sliHe took his vorpal sword in hand: +ppLong time the maxome foe he sought-+nlSo rested he by the Tumtum tree, +ppAnd stood awile in thought. +sllAnd, as in uffish thought he stood, +ppThe Jabberwock, with eyes of flame, +nlCame whiffling through the tulgey wood, +ppAnd burbled as it came! +sliOne, two! One, two! And through and through +ppThe vorpal blade went snicker=snack1 +nlHe left it dead, and with its head +ppHe went galumphing back. +sl1""And hast thou slain the Jabberwock? +ppCome to my arms, my beamish boy! +n10 frabjous day! Callooh! Callay!"" +ppHe chortled in his joy. +sll'Twas brilig, and the slithy toves +ppDid gyre and gimble in the wabe: +nlAll mimsy were the borogoves, +ppAnd the mome raths outgrabe.

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PART 2 - OUTPUT FROM SCRIBE JABBEFWOCKY

"Twas brillig, and the slithy toves Dis gyre and gimble in the wabe: All nimsy were the borogoves, And the nome raths outgrabe.

"Beware the Jabberwock, my son! The jaws that bite, the claws the catch! Beware the Jubjub bird, and shun The frumious Bandersnatch!"

He took his vorpal sword in hand: Long time the maxome foe he sought= So rested he by the Tumtum tree, And stood awhile in thought.

And, as in uffish thought he stood, The Jabberwock, with eyes of flame, Came whiffling through the tulgey wood, And burbled as it came!

One, twol One, twol And through and through The vorpal blade went snicker-snack! He left it dead, and with its head He went galumphing back.

""And hast thou slain the Jabberwock? Come to my arms, my beamish boy! U frabjous day! Callooh! Callay!"" He chortled in his joy.

"Twas brillig, and the slithy toves Did gyre and gimble in the wabe: All mimsy were the borogoves, And the mome raths outgrabe.

Example 6 - A Letter

In this example, the following commands are used:

+LM, to set the left margin, +RM, to set the right margin, +FO, to keyin input, +**, to communicate with the operator, +EM, for even margins, and +RJ, to right justify text.

The "+LM" and "+RM" commands allow the user to reset the margins to new values between 1 and 132. The new settings for the margins will not go into effect until the current output line has been completed or purged with the "+PL" command.

Two new justifications commands are introduced in this example, namely that of "+RJ" right justification and "+EM" even margins. These commands will position the output text on the output line either right justified along the current right margin or as in the case of the "+EM" command, fill in with blanks when possible to complete a line out to the right margin.

The "+**" command tells the operator what input is expected when the next KEYIN: message is displayed. Remember that all remaining text in this line is only displayed and not processed in any way.

Finally, this example introduces a file switch command, "+F0", used to obtain text from the operator of the Datapoint 2200 that will fill in blank spaces in the letter.

The operator must now work with two files, the cassette file, and the keyboard input of the 2200. The operator issues the same commands as in example 1, but he must now respond to new KEYIN: requests as shown in the operator responses for this example.

G-18 SCRIBE, DSCRIBE, AND DSSCRIBE

+PN+CNThe ABC Co. +NL17 W. 42nd Street +NLNew York City +SL2+RJ +** Today's date please: +F0 +SL2+EM +** Name and address according to format 1 please: +F0 +SL1Dear sir: +SL1Many thanks for your recent order. +SL1Since we have not had the pleasure of serving you previously, there will be a slight delay until the necessary credit data is received through normal credit channels. +SL1You have our assurance, that as soon as satisfactory information is received, your order will be processed for immediate shipment. +SL1Any additional information you can furnish to help us would be appreciated. +SL1Please direct any written requests to: +LM5+NLDelta Credit Corporation +NL1531 North Park Ave. So. +NLNew York City, +NLNew York +NL10029 +RM50 +SL1+RJVery truly yours, +SL3Ted Davidson, +NLCredit Manager +LM1+RM60+SL1+LJTAD/dt

Operator input (once per letter typed): 8/18/72+FR Quincy E. D. Smith+NL12 Dak Park+NLAnywhere, U.S.A., 99999+NL+FR The ABC CO. 17 W. 42nd Street New York City

8/18/72

Quincy E. D. Smith 12 Oak Park Anywhere, U.S.A., 99999

Dear Sir:

Many thanks for your recent order.

Since we have not had the pleasure of serving you previously, there will be a slight delay until the necessary credit data is received through normal credit channels.

You have our assurance, that as soon as satisfactory information is received, your order will be processed for immediate shipment.

Any additional information you can furnish to help us would be appreciated.

Please direct any written requests to: Delta Credit Corporation 1531 North Park Ave. So. New York City, New York 10029

Very truly yours,

Ted Davidson, Credit Manager

TAD/dt

G-20 SCRIBE, DSCRIBE, AND DSSCRIBE

APPENDIX H. Setting Up SCRIBE Version 1

SCRIBE Version 1 is released as a load-and-go program for use on Version 1 and Version 2 Datapoint 2200's. Place the cassette tape in the rear deck and press 'RESTART'. When the program is loaded, the message:

SCRIBE1.4

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will appear on the screen. The default output device is the Selectric typewriter. If it is not on-line to the 2200, the message:

DUTPUT DEVICE NOT READY

will appear on the screen. The message:

KEYIN:

will then appear on the screen awaiting a reply. If the Selectric was not available, or some other device is desired, the output device must be selected using the commands discussed in Section 8.4 (page 8-4). The output devices that may be selected include the 2200 CRT, the Selectric typewriter, the Remote (Thermal) Printer, the Local (Serial or Line) Printer, or the IBM 2741. The operator then enters the information (e.g. rewinding, deck selection, etc.) necessary for SCRIBE to process. SCRIBE Version I Commands Cross Reference List

		Section
+A1	Display File 1 (rear deck) "As Is"	8,5
+42	Display File 2 (front deck) "As Is"	8.5
+ALnnn	Left Margin Set for Page Numbers	2.3
+ARnnn	Right Margin Set for Page Numbers	2.3
+AS	"As Is" Text	1.4
+ATnnn	Absolute Tab to Column nnn	3.4.5
+BH	Begin Header	2.4
+BLnnn	Body Length Definition	2.1
+CC	Clear "case" Flags	6.2
+CD	CRT Display	8.4.2
+CN	Center Output Text	4.3
+D1	Rewind and Open File 1 (rear deck)	8 7 7
+D2	Rewind and Open File 2 (front deck)	
+ED	Print on 2741 (FBCD Code)	8/14
+EM	Even Margins for Output Text	
+EN	Reserved	114 @ 244
+F0	Switch Input to File ((keyboard)	973
+F1	Switch Input to File 1 (man dock)	0,3, 6 9,7,7
+52	Switch Input to File 2 (fear deck)	0.3.2
+Flonn	Set the Feeting Langth	0.3.6
	Teput File Octure	2.1
	Input rile keturn Headen Specing	8.5.2
	Personal Indentity O	2.1
+10	Paragraph incentation Set	3.2
TJR	Right Justify at Lurrent Column	3,5
TLU	rorce to Lower Gase	6.2
+LU	Print on 2200/Local Printer	8.4.4
+LJ	Left Justify Uutput Text	4.1
+LMnnn	Left Margin Set	3.1.1
+LS	Set Line Spacing	5.1
+LT	Set Left Margin to Tab	3.1.3
+N1,2,3	Turn Switch 1,2,3 Off	7.1.1
+NE	Print Current Text Even Margins;	5.2
	Begin New Line	
+NH	Stop Printing Header	2.4
+NL	Print Current Text; Begin New Line	5.2
+NP	Résume Printing	7.1.2
+NR	End Field Right Justification	3.5
+NU	No Underlining	6.1
+PBnnnn	Page Numbering at Bottom of Page	2.3
+PC	Continue at New Page; No Halt	2.2
+PG	Begin A New Page	2.2
+PH	Halt at New Page	2.2
+PI	Pica (10 characters per inch) spacing	3.6

H=2 SCRIBE, DSCRIBE, AND DSSCRIBE

+PL	Purge Current Output Text	7.2
+PN	Page Normalize; Begin New Page	2.2
+PPnnn	Skip nnn Lines and Begin New Paragraph	3.2
+PRnnn	Start Printing at Physical Page nnn	8.8
+PSnnn	Special Page Skip	2.2
+PInnnn	Page Numbering at Top of Page	2.3
+R1	Rewind and Open File 1 (rear deck)	8.3.1
+R2	Rewind and Open File 2 (front deck)	8.3.1
+RD	Print on Remote Printer	8.4.3
+RJ	Right Justify Output Text	4.2
+RMnnn	Right Margin Set	3.1.2
+RS	Restart Input Buffers	8.3.2
+RT	Set the Right Margin to Tab	3.1.4
+\$1,2,3	Turn Switch 1.2.3 On	7.1.1
+SD	Print on 2200/Selectric	8.4.1
+SLnnn	Skip nnn Lines or to New Page	5.3
+SPnnn	Skip Spaces	3.3
+TB	Tabulate	3.4.3
+TC	Tab Clear	3.4.2
+TR	Tabulate and Right Justify Field	3.4.6
+TS	Tab Set	3.4.1
+TT	Typewriter Tab	3.4.4
+UC	Force Upper Case	6.2
+UN	Begin Underline	6.1
+XD	2741 Display(Correspondence Code)	8.4.6
+**	Operator Comment	8.6
++	Output a "+"	1.1
+##	End of As Is text	1.4
+10	Equate File 1 to File 0	8.3.2
+11	Equate File 1 to File 1	8.3.2
+20	Equate File 2 to File 0	8.3.2
+22	Equate File 2 to File 2	8.3.2

APPENDIX H. Setting Up SCRIBE Version 1 H-3

APPENDIX I. SETTING UP SCRIBE VERSION 2

SCRIBE Version 2 is released as a load-and-go tape for a Version 2 2200 and Servo Printer. Place the tape in the rear cassette deck and press 'RESTART', When the program has loaded, the message:

TAPE SERVO SCRIBE 2.4 KEYIN:

will appear on the screen awaiting a reply. The default output cevice is the 2200 CRT. If the Servo Printer is desired, it must be selected with the +DD or +AM command (see Section 8.4.5). If the Servo Printer is selected and is not on-line, the message:

CUTPUT DEVICE NOT AVAILABLE

will appear. The operator replies to the keyin request with the commands (e.g. rewinding, selecting decks, etc.) necessary for SCRIBE to process.

SCRIBE Version 2 Commands Cross Reference List

		Section
	Display File 1 "As Is"	8.5
TAC	Display File 2 "As Is"	8.5
+ALDOD	Left Margin Set for Page Numbers	2.3
+AMnnn	Absolute Margin the Servo Printer	8.4.5
+ARnnn	Right Margin Set for Page Numbers	2.3
+AS	"As Is" Text	1.4
+ATnnn	Absolute Tab to Column nnn	3.4.5
+BH	Begin Header	2.4
+BLnnn	Body Length Definition	2.1
+CC	Clear 'case' Flags	6.2
+CD	CRT Display (Default)	8.4.2
+CN	Center Dutput Text	4.3
+D1	Rewind and Open Rear Deck	8.3.3
+D2	Rewind and Open Front Deck	8.3.3
+DDnnn	Select the Servo Printer	8.4.5
+EM	Even Margins for Output Text	4.4
+FO	Switch Input to File 0 (keyboard)	8.3.2
+F1	Switch Input to File 1 (rear deck)	8.3.2
+F2	Switch Input to File 2 (front deck)	8 3 2 2
+FLnnn	Set the Footing Length	2 1
+FR	Input File Return	8.3.2
+HLnnn	Header Spacing	2.1
+ISnnn	Paragraph Indentation Set	3.2
+JR	Right Justify at Current Column	3.5
+LC	Force to Lower Case	6.2
+LJ	Left Justify Dutput Text	4.1
+LMnnn	Left Margin Set	3 1 1
+LS	Set Line Spacing	5.1
+LT	Set Left Margin to Tab	3.1.3
+N1,2,3	Turn Switch 1,2,3 Off	7.1.1
+NE	Print Current Text Even Margins:	5.2
	Begin New Line	200
+NH	Stop Printing Header	2.4
+NL	Print Current Text; Begin New Line	5.2
+NP	Resume Printing	7.1.2
+NR	End Field Right Justification	7.5
+NU	No Underlining	6 1
+P1,2,3	Suppress Print Unless Switch 1.2.4 An	7.1.2
+PBnnnn	Page Numbering at Bottom of Page	2.2
+PC	Continue at New Page: No Halt	2 2
+PG	Begin A New Page	2 2
+PH	Halt at New Page	2 2
+PL	Purge Current Output Text	7.2

+PN	Page Normalize: Regin New Page	2.2
+PPnnn	Skip non Lines and Begin New Paragraph	3 2
+PRnnn	Start Printing at Physical Page onn	8 8
+PSnnn	Special Page Skin	2 2
+PTopooo	Page Numbering at Ten of Page	2.2
→ D 1	Powind and Onen File 1 (neer deal)	2.3
	Rewind and Upen rije i (rear deck)	0.3.1
TRE	Rewind and Upen File 2 (front deck)	8.5.1
TRJ	Right Justity Uutput lext	4.2
+KMnnn	Right Margin Set	3.1.2
+RS	Restart Input Buffers	8.3.2
+RT	Set the Right Margin to Tab	3.1.4
+\$1,2,3	Turn Switch 1,2,3 On	7.1.1
+SLnnn	Skip nnn Lines or to New Page	5.3
+SPnnn	Skip Spaces	3.3
+TB	Tabulate	3.4.3
+TC	Tab Clear	3.4.2
+TR	Tabulate and Right Justify Field	3.4.6
+TS	Tab Set	3.4.1
+TT	Tvpewriter Tab	3.4.4
+00	Force Upper Case	6.2
+11N	Regin Underline	6 1
+++	Openator Comment	8 4
▲ ▲	Output a "A"	0.0
**	Ford of An In hout	1
T## 140	LNG OT AS IS TEXT	1.4
+10	Equate File 1 to File 0	8.3.2
+11	Equate File 1 to File 1	8.3.2
+20	Equate File 2 to File 0	8.3.2
+22	Equate File 2 to File 2	8.3.2

APPENDIX J. Setting up DSCRIBE (Disk Scribe)

DSCRIBE is released as an object file on tape which must be loaded to disk before processing or as an object file on diskette. To load DSCRIBE from tape, load the Disk Operating System and place the DSCRIBE object tape in the front deck. Type the DOS command:

IN DSCRIBE/CMD

OF.

MIN ;AO

This will cause the DSCRIBE program to be transferred from the cassette to the disk cartridge. When the READY message appears the transfer is complete. DSCRIBE may now be used by typing:

DSCRIBE [filespec1] [,filespec2]

where the filespecs (DOS file specifications, each consisting of a name/extention) are optional. If the extention is omitted from a file specification, the extention "TXI" is assumed.

The names specified by filespec1 and filespec2 should correspond to text files either created by DOSGEDIT (EDIT/CMD), or created by the cassette program GEDIT and SIN'd to the disk. For example, typing:

DSCRIBE LETTER, ADDRESS

causes DSCRIBE to look for files on the disk called LETTER/TXT and ADDRESS/TXT. The first file, LETTER, is considered logical file 1 and is subsequently referred to by the standard SCRIBE commands +F1, +R1 and +A1. Similarly, ADDRESS is logical file 2 and is controlled by the +F2, +R2 and +A2 commands.

Disk files may also be specified after DSCRIBE is running. For example, if DSCRIBE is executed by typing simply:

DSCRIBE

no disk files are opened. Using any of the file accessing commands (+F1, +F2, +R1, +R2, +A1 or +A2) causes an error.

To specify a file once DSCRIBE is running, the commands +D1<filespec1> and +D2<filespec2> must be used. For example, when DSCRIBE displays the 'KEYIN' message, the operator types:

+D1LETTER+D2ADDRESS

to open the files LETTER/TXT and ADDRESS/TXT. These commands may also be used at any time to change the text files being processed.

When DSCRIBE has been executed, the message:

DISK S C R I B E 2.1 Keyin:

will appear awaiting a reply. The operator then enters the commands (e.g. output device selection, disk file selection, etc) necessary to process DSCRIBE. The default output device is the 2200 CRT, however all printers (Local, Remote, Servo, Selectric, and IBM 2741) are available for selection.

J=2 SCRIBE, DSCRIBE, AND DSSCRIBE

DISK SCRIBE Command Cross Reference List

		Section
+A1	Display File 1 "As Is"	8.5
+A2	Display File 2 "As Is"	8.5
+ALnrn	Left Margin Set for Page Numbers	2.3
+AMnrn	Absolute Margin the Servo Printer	8.4.5
+ARnrn	Right Margin Set for Page Numbers	2.3
+AS	"As Is" Text	1.4
+ATnnn	Absolute Tab to Column nnn	3.4.5
+BH	Begin Header	2.4
+BLnnn	Body Length Definition	2.1
+BR	Black Ribbon	6.3
+CC	Clear 'case' Flags	6.2
+CD	CRT Display (Default)	8.4.2
+CN	Center Output Text	4.3
+DO	Disk Output	8.4.7
+D1 <file></file>	Open <file> on Disk as File 1</file>	8.3.3
+D2 <file></file>	Open <file> on Disk as File 2</file>	8.3.3
+DDnnn	Select the Servo Printer	8.4.5
+ED	Print on 2741 (EBCD Code)	8.4.6
+EL	Elite (12 characters per inch) spacing	3.6
+EM	Even Margins for Output Text	4.4
+EN	Reserved	
+F0	Switch Input to File 0 (keyboard)	8.3.2
+F1	Switch Input to File 1	8.3.2
+F2	Switch Input to File 2	8.3.2
+FC	Reserved	
+FLnnn	Set the Footing Length	2.1
+FR	Input File Return	8.3.2
+HLnnn	Header Spacing	2.1
+ISnnn	Paragraph Indentation Set	3.2
+JR	Right Justify at Current Column	3.5
+LC	Force to Lower Case	6.2
+LD	Print on 2200/Local Printer	8.4.4
+LE	Reserved	
+LF	Left Footing for Manual Paging	2.5
+LInnn	Line Increment - change line spacing	5.6
+LJ	Left Justify Output Text	4.1
+LMnnn	Left Margin Set	3.1.1
+LS	Set Line Spacing	5.1
+LT	Set Left Margin to Tab	3.1.3
+MS	Reserved	
+N1,2,3	Turn Switch 1,2,3 Off	7 . 1 . 1
+NE	Print Current Text Even Margins;	5.2
	Begin New Line	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
+NH	Stop Printing Header	2.4

APPENDIX J. Setting up DSCRIBE (Disk Scribe)

J=3

▲ N I	Paint Current Tout Parks No. 1 to	~ ~
	Print Current (ext) begin New Line	5.2
	resume rrinting	7.1.2
	End Field Right Justification	3.5
TND	No Super/Subscripting	6.4
+NU	No Underlining	6.1
+OP	Overprint	6.5
+0\$	Return to Disk Operating System	8.9
+P1,2,3	Suppress Print Unless Switch 1,2,3 On	7.1.2
+PBnnnnn	Page Numbering at Bottom of Page	2.3
+PC	Continue at New Page; No Halt	2.2
+PG	Begin A New Page	2 2
+PH	Halt at New Page	2 2
+PT	Pica (10 characters per inch) concing	7 4
+ P1	Puede Cuspent Dutput Taut	2.0
+PMnonnn	Page Menuel (numbers in elternation entropy	1.6
	Page Manual (numbers in alternating corners	12.5
TPIN	rage Normalize; Begin New Page	2.2
trrnnn	Skip nnn Lines and Begin New Paragraph	3.2
+PRnnn	Start Printing at Physical Page nnn	8.8
+PSnnn	Special Page Skip	5.5
+PInnnnn	Page Numbering at Top of Page	2.3
+R1	Rewind and Open File 1	8.3.1
+R2	Rewind and Open File 2	8.3.1
+RD	Print on Remote Printer	8.4.3
+RF	Right Footing for Manual Paging	2.5
+RJ	Right Justify Output Text	4.2
+RMnnn	Right Margin Set	7 1 2
+RNnnn	Roman Numerale	2 2 2
+RR	Red Ribbon	6 7
4RS	Restant Innut Buffann	0.7
10T	Set the Dight Mangin to Tak	0.2.6
TRI 101 0 7	Turn Suites 1 7 7 0.	5.1.4
	lurn Switch 1/2/5 Un	7.1.1
TOD	SUDSCRIDT	6.4
+36	Reserved	
+50	Print on 2200/Selectric	8.4.1
+SInnn	Size Increment = change character width	3.7
+SLnnn	Skip nnn Lines or to New Page	5.3
+SPnnn	Skip Spaces	3.3
+\$\$	Superscript	6.4
+ TB	Tabulate	3.4.3
+TC	Tab Clear	3.4.2
+TR	Tabulate and Right Justify Field	3.4.6
+TS	Tab Set	3.4.1
+TT	Typewriter Tab	3 4 4
+TX	Tab Fytended e teb sinkt analyst sinkt mar	2 11 7
+110	Forea linnar fasa	6 2
+11N	Regin Underline	0.C
+ Y D	27/1 Display(Concentrate Code)	
	riar nishidarronueshoudeude rodet	0.4.0

SCRIBE, DSCRIBE, AND DSSCRIBE **J-4**

+ * *	Operator Comment	8.6
++	Output a "+"	1.1
+##	End of As Is text	1.4
+10	Equate File 1 to File 0	8.3.2
+11	Equate File 1 to File 1	8.3.2
+20	Equate File 2 to File 0	8.3.2
+22	Equate File 2 to File 2	8.3.2

1

APPENDIX J. Setting up DSCRIBE (Disk Scribe) J=5

APPENDIX K. Setting Up DSSCRIBE (Datashare SCRIBE)

The Datashare SCRIBE system is released as a DMF (DOS multi-file) tape. File 0 is a tape directory with the date. Files 1 through 4 are respectively:

DSSCRIBE/ABS SCMASTER/TXT DSSEDIT/TXT EM33603/ABS

These files are loaded to disk using MIN/CMD. If MIN/CMD version 1.2 or later is available on disk, entering:

MIN ;A

will load all four files to disk. If version 1.1 is available, enter:

MIN :N

and reply to the resulting questions as follows:

LDAD FILE #00 (SOURCE) ? N LDAD FILE #01 (DBJECT) ? Y DDS FILE NAME: DSSCRIBE LDAD FILE #02 (SOURCE) ? Y DDS FILE NAME: SCMASTER LDAD FILE #03 (SOURCE) ? Y DDS FILE NAME: DSSEDIT LDAD FILE #04 (DBJECT) ? Y DDS FILE NAME: EM3360S

DSSCRIBE/ABS is the object program that runs in the 1100 terminal interpreting the SCRIBE text given it by the Datashare system and printing it on the Servo Printer. It is put on a load-and-go tape using MOUT/CMD or LGO/CMD. If MOUT/CMD is used, enter:

MOUT DSSCRIBE;LV

with a scratch tape in the front deck.

SCMASTER/TXT is the source file for the master program to drive the Datashare SCRIBE port. It is configured to the port to

APPENDIX K. Setting Up DSSCRIBE (Datashare SCRIBE) K-1

be used and then compiled. Edit the SCMASTER/TXT placing the port number in variable PORTN and then compile the program with the following entry:

DSCMP SCMASTER, MASTERX;

1

where x is the number of the port assigned to the DSSCRIBE port. SCMASTER opens the Datashare SCRIBE schedule file (SCHFILE/TXT) and scans for an entry. If the file doesn't exist, it is created. If an entry is found, the file name is sent to the Datashare SCRIBE port and the file opened. The ANSWER program for the the Datashare SCRIBE port should merely consist of a STOP statement so that it will immediately chain to the MASTER program.

DSSEDIT/TXT is the general edit program that allows placement of a file name into the Datashare SCRIBE schedule file or to remove a file name from the schedule file or to check the status of the schedule file. DSSEDIT may be used on an 1100, 3300, or 3360 terminal for entering items into the schedule file. It also may be used on the 1100 terminal that has been loaded with the 3360 Emulator for modifying source files on disk in upper and lower case. Refer to DSSEDIT Manual for details on its use.

EM3360S/ABS is the object file for emulating the 3360 on the 1100. It is put on a load-and-go tape using MDUT/CMD or LGO/CMD. If MDUT/CMD is used, enter:

MOUT EM3360S;LV

with a scratch tape in the front deck.

Place the Datashare SCRIBE LGD tape in the rear deck of the 1100 and press the "RESTART" key. After loading the program, the tape will automatically rewind. The message:

DATASHARE SCRIBE

will appear followed by the version number and date. If the message

OUTPUT DEVICE NOT AVAILABLE

appears on the bottom line, insure that the Servo Printer is connected to the Datashare SCRIBE 1100 and is turned on. Press 'Linefeed' and 'Formfeed' on the Servo Printer to clear it. Then press the 'ENTER' key on the 1100. The query:

WHAT BAUD?

will then appear. Acceptable replies are 300, 600, and 1200. The message:

AWAITING INPUT

will then appear. This message will remain until a file name is found in the schedule at which time:

PROCESSING FILE <filename>.

will appear. The file will then be processed without operator intervention. Upon completion the message:

AWAITING INPUT

will reappear and the schedule file searched for another file name.

If the Page Halt option is requested in the SCRIBE text or the operator presses the 'DISPLAY' key (which will cause a 'click' to be heard), the message:

NEW PAGE?

will appear when the printer is between pages. If the "ENTER" key is pressed or a "Y" is entered, SCRIBE processing will continue. Entering a "C" will cause the Page Continuous option to replace the Page Halt option and SCRIBE processing will continue. Entering anything else will cause processing to terminate and the schedule searched for the next file. Pressing the "KEYBOARD" key will cause processing to immediately terminate and the schedule searched for the next file. Datashare SCRIBE Command Cross Reference

		Section
+AU	Display File 0 "As Is"	8.5
+A1	Display File 1 "As Is"	8.5
+45	Display File 2 "As Is"	8.5
+ALnnn	Left Margin Set for Page Numbers	2.3
+AMnnn	Absolute Margin the Servo Printer	8.4.5
+ARnnn	Right Margin Set for Page Numbers	2.3
+AS	"As Is" Text	1.4
+ATnnn	Absolute Tab to Column nnn	3.4.5
+BH	Begin Header	2.4
+BLnnn	Body Length Definition	2.1
+CC	Clear 'case' Flags	<u> </u>
+CN	Center Butput Text	<u>л</u> х
+DO <file></file>	Open <file> on Disk as File 0</file>	977
+D1 <file></file>	Open <file> on Disk as File 1</file>	8 7 7
+D2 <file></file>	Open <file> on Disk as File 2</file>	C a J a J 2 Z Z
+DDnnn	Select the Servo Printer	· · · · · · · · · · · · · · · · · · ·
+FM	Even Margins for Output Text	
+F0	Switch Toput to File 0	4,4 0 7 7
+F1	Switch Input to File 1	0.3.2
+F2	Switch Input to File 2	0.3.6
+Floon	Set the Footing Longth	8.3.2
*FR	Toput File Petune	C .1
++1.000	Header Species	8.5.2
+ISonn	Papagaph Indontation Sat	¢.1
A TP	Picht Tuctify of Change Calls	5.2
	Former Lough Contract Lolumn	5.5
	rorce to Lower Lase	6.2
+LU +L Mana	Left Justify Uutput lext	4.1
TLMAAA ALS	Set Line Sector	3.1.1
	Set Line Spacing	5.1
	Set Left Margin to lab	3.1.3
	lurn Switch 1,2,5 Uff	7.1.1
+NE	Print Current Text Even Margins;	5.2
	Begin New Line	
+NM	Stop Printing Header	2.4
+NL	Print Current Text; Begin New Line	5.2
TNP	Resume Printing	7.1.2
+NR	End Field Right Justification	3.5
+NU	No Underlining	6.1
+11,2,3	Suppress Print Unless Switch 1,2,3 0	n 7.1.2
+PBnnhnn	Page Numbering at Bottom of Page	2.3
+PC	Continue at New Page; No Halt	5.5
+PG	Begin A New Page	5.5
+PH	Halt at New Page	2.2
+PL	Purge Current Output Text	7.2

K-4 SCRIBE, DSCRIBE, AND DSSCRIBE