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J. D. Drinan
Editor

Haystack Pointing System:
Peripheral Programs

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HAYSTACK POINTING SYSTEM: PERIPHERAL PROGRAMS

J. D. DRINAN, Editor

Group 62

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LEXINGTON

MASSACHUSETTS
ABSTRACT

A set of eight non-real-time service programs was written in support of the Haystack Pointing System to facilitate system maintenance and updating. Peripheral functions afforded by this set of programs include: (1) format conversion and remote printing facility of the SPURT assembler printer outputs 210, 211 and 212; (2) magnetic tape dumping; (3) "effective" punched card input to SPURT assembler; (4) Cal Comp plotting of system output; (5) punched card equivalents of Common Storage Allocation Tape; (6) automatic program loading with bootstrap tape generation facilities; (7) magnetic tape duplication; and (8) automatic updating of system tapes.

Accepted for the Air Force
Franklin C. Hudson
Chief, Lincoln Laboratory Office
INTRODUCTION

Each of the programs described in this document was written with an eye toward automating, in so far as possible, the manifold "off-line" steps necessary in the creation, maintenance and evaluation of the Haystack Pointing System.

The write-ups have assumed a certain familiarity on the part of the reader with regard to system fundamentals, to the SPURT assembler and to the TOPS utility routine.

A brief abstract of each program as well as the name of each author is given below:

LIST 210
A. A. Mathiasen Page 3

SPURT assembler outputs 210, 211 and 212 are format converted for printing by the IBM 1401 computer.

MAGNETIC TAPE DUMP PROGRAM
S. J. White Page 13

The contents of virtually any U-490 produced magnetic tape may be listed on the Haystack high-speed printer. A variety of user options is available.

MAKEA301TP
J. D. Drinan Page 16

This is a pre-assembler program which effectively enables the programmer to use the punched card medium as an input to the SPURT assembler.

PLOTTER (CAL COMP)
S. J. White Page 20

Certain of the recorded outputs of the Haystack Pointing System can be presented in the form of Cal Comp plots.

PUNCHALLOC
D. Hafford Page 25

The Common Storage symbol table maintained on cards is transposed onto flexo-tape.

SYSLOADER
J. D. Drinan Page 29

The single Master Bootstrap System Tape as well as a map of allocated memory are produced under the direction of the user.
Most high density binary tapes can be duplicated.

Any system program can be added to, replaced or deleted from the particular master file tape to which it belongs.
LIST 210

INTRODUCTION

The List 210 program reads the 210, 211, or 212 Fieldata output of the SPURT assembler and makes up a BCD output for printing by an IBM 1401 computer or similar device.

INPUT

A. Tape Input

Record 1

<table>
<thead>
<tr>
<th>Word</th>
<th>Upper</th>
<th>Lower</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(not used)</td>
<td>00210</td>
</tr>
<tr>
<td></td>
<td></td>
<td>00211</td>
</tr>
<tr>
<td></td>
<td></td>
<td>00212</td>
</tr>
<tr>
<td>2 - 7</td>
<td>Name of program and programmer in Fieldata</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>0</td>
<td>not used</td>
</tr>
<tr>
<td>10</td>
<td>0</td>
<td>32</td>
</tr>
</tbody>
</table>

Word 1 from this record tells the kind of output.

Record 2 through n

<table>
<thead>
<tr>
<th>Word</th>
<th>Upper</th>
<th>Lower</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>_</td>
<td>26 _ + 1</td>
</tr>
<tr>
<td>2 - 26</td>
<td>Fielddata information</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Spacing control</td>
<td></td>
</tr>
<tr>
<td>28 - 52</td>
<td>Fielddata information</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>Spacing control</td>
<td></td>
</tr>
</tbody>
</table>

26(_ - 1) + 2 to 26 _ Fielddata information

26 _ + 1 Spacing control
stands for the number of output printer lines in this record. Each line consists of 125 Fielddata characters.

Record n+1 (last record)

<table>
<thead>
<tr>
<th>Word</th>
<th>Upper</th>
<th>Lower</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12231</td>
<td>12413</td>
</tr>
<tr>
<td>2</td>
<td>11322</td>
<td>22505</td>
</tr>
</tbody>
</table>

Record n+1 has the Fielddata characters for ENDOFDUMP.

1. The 210 Tape

In the 210 tape the first line (of Record 2) contains the legend SPURT OUTPUT NO. 210 enclosed in apostrophes. (In the translation, these are interpreted as periods.)

The second line is a succession of apostrophes and is skipped by the program.

The third line contains the name of the program and usually the programmer and date.

The fourth line is the legend "NO. OF INSTRUCTIONS m" followed by lines of the form "n1 thru n2" until a line exactly like line 1 is encountered.

The next line after this is a succession of apostrophes.

The line after this is like the third line above (program name, programmer, and date).

The next line is the column headings

- CARDS LL CD LABEL TA STATEMENT LOC F JKB Y NOTES.

Following this are the successive lines of program listing.

2. The 211 or 212 Tape

Both the 211 and 212 tapes contain a listing of labels and their associated addresses. In the former, these are alphabetically ordered; in the latter, numerically ordered.

The first line (of Record 2) is the legend "SPURT OUTPUT NO. 21Y" where Y is 1 or 2, enclosed in apostrophes.

The second line is a succession of apostrophes.

The third line is the program name, programmer and date.
The fourth line contains the column headings
- LABEL LOC LABEL LOC LABEL LOC.

B. Jump Buttons

1. Key 1

If Key 1 is depressed at the completion of translation of a logical file, the Fieldata input type and the BCD output tape will be rewound, and the program will stop. Starting after this will cause the program to reinitialize.

2. Key 2

If Key 2 is depressed at the completion of translation of a logical file, the program will continue with the next logical file of the input.

3. Key 3

If Key 3 is depressed at the completion of translation of a logical file, the Fieldata input tape will be rewound, the BCD output tape will be left where it is, and the program will stop. Upon starting, it will translate the next logical file of the Fieldata input tape (which presumably will be a newly mounted tape).

OUTPUT

The output will be a magnetic tape with the BCD equivalent of the Fieldata 210, 211, or 212 listing. There will, however, be added a heading including page number on each new page. Examples of such a 210, 211, or 212 output listing will be found in the Appendix.

The operation of the keys is printed on the console typewriter. Also printed is the current program being translated and the kind of listing.

OPERATION

The flow diagram of the program details the operation.
LIST 210 PROGRAM

8  Start

- Release Interrupt Lockout
- Rewind the Fielddata Input Tape
- Set Up Typewriter Interrupt Entrance Register
- Disable Delta Clock
- Print Program Operation
- Rewind the BCD Output Tape
- Prepare BCD Tape Parity Message and End-Of-File Message

4  Read First Record

- Set Page Number to One

- Is This a 210 Tape?
  - No
  - Yes, Enter "210" in Tape Parity Message

2  Get Next Line. This Comes From the Next Record

- Write Page One, Line One. "Spurt Output No 210"
- Skip Line

- Write Name of Program and Programmer

1  Write Number of Instructions
Get Next Line

Is This the Start 210 Label?
Yes → 2
No
Write Next Line of First Page

Set Up First Three Lines of Heading of Succeeding Pages. Write the Heading of the Second Page.

Write Next Line of Page

Have We Reached an End of Page?
No
Yes → Write Heading on Next Page

Is This a 211 Tape?
Yes → Enter 211 in Tape Parity Message
No
Is This a 212 Tape?
Yes → Enter 212 in Tape Parity Message
No →
Write and Set Up Three-Line Heading

Write Next Line of Page

No

We Reached an End of Page?

Yes

Write Heading on Next Page
GET ON-LINE ROUTINE

Entry

Do We Need a New Record?
Yes

Read In Next Record

Is This the Last Record?

No

Move Next Line to Fixed Location Line

Obtain Count of Lines in Record. Set in New Record Test.

Stop

9
PAGE HEADING ROUTINE

Entry

Index Page Number

Print Three-Line Headings

Exit

UNDERSTAND ROUTINE

Entry

Unpack Fielddata Image

Translate Fielddata Characters to BCD Characters

Pack BCD Image

Exit
READ ROUTINE

Machine Error \( R_{50} \rightarrow ME \) Entry
Machine Error \( R_{51} \rightarrow ME \) Read In Next Record \( R_1 \rightarrow Go \) to Appropriate Status Handler \( R_{5n} \)
Machine Error \( R_{52} \rightarrow ME \)
Machine Error \( R_{53} \rightarrow ME \)
Machine Error \( R_{54} \rightarrow ME \)
Rewinding \( R_{55} \rightarrow RI \)
Machine Error \( R_{56} \rightarrow ME \)
Machine Error \( R_{57} \rightarrow ME \)
Normal \( R_{58} \rightarrow Exit \)
Parity \( R_{59} \rightarrow PE \)
Machine Error \( R_{510} \rightarrow ME \)
End of File \( R_{211} \rightarrow ED \)
End of Tape \( R_{312} \rightarrow ED \)
Machine Error \( R_{313} \rightarrow ME \)
Machine Error \( R_{314} \rightarrow ME \)
Interlock \( R_{315} \rightarrow INT \)

ME → Set Up Unit Number \( \rightarrow ME \) → Print Status Code and Unit Number → Stop → 4

PE → Have We Tried Ten Times? → Yes → Print Parity Message

No → Backspace Record \( R_1 \) → Print End of Tape Message

EXIT → Write Parity Message on BCD Output Tape

EXIT → Print Interlock Message

EXIT → Print End of Tape Message

EXIT → Print Interlock Message
MAGNETIC TAPE DUMP PROGRAM

GENERAL

A Univac 490 program called Magnetic Tape Dump Program has been written to list the contents of a magnetic tape on the Haystack high-speed printer. The program has the ability to process a tape in high or low density with an even or odd parity, and in BCD, FD, or octal format. It also has the capability of skipping files or records, of dumping files or records, and of rewinding a tape.

Input is from both magnetic tape and the on-line console typewriter. The magnetic tape may be mounted on any one of the four tape drives (A, B, C or D). Tape drive, density, parity, format, file and record skipping, file and record dumping, and rewinding are specified via the console.

Selected contents of the magnetic tape are printed on the high-speed printer.

OPERATION

Mount the tape to be processed on one of the tape drives. The Magnetic Tape Dump Program is included as one of the utility programs on the SPURT System Tape. To call the program, type (via TOPS):

LS □ MTDMP

The Magnetic Tape Dump is also on a separate "321" magnetic tape labeled "MGTAPEDUMP." To load the program, mount this tape on one of the tape servos (SN) where N = servo where the tape has been mounted, then type:

LD □ Sn □ 321 □ 10000 □ s
PS □ 10000 □ s

When the program has been called by either method, the following message will appear on the on-line console:

"STANDARD (A, B, C, OR D) OR NO (N)"

Selecting one of the standard A, B, C, or D tape units followed by a stop code □ s will initiate a listing in octal, high density of many files. To limit the output, the program has to be stopped manually by depressing the step-operate switch in
the operate position. If the program has been stopped manually, clear the printer channel before continuing with other tape dumps.

Selecting "N" (NO) followed by a stop code "(S)" types an output of requests: "TAPE-DENSITY-PARITY-FORMAT-SKREC-DPREC-DPFILE-REW." Answers are entered below the line of requests. The program spaces to allow the answers to be directly under the appropriate request. Answers to each request are as follows:

- **TAPE** → A, B, C, or D (Uniservo 0, 1, 2, or 3, respectively)
- **DENSITY** → H or L (High or Low)
- **PARITY** → E or O (Even or Odd)*
- **FORMAT** → F, B, or D (Field Data, BCD, or Octal)
- **SKFILE** → Number of files to be skipped before dumping.†
- **SKREC** → Number of records to be skipped before dumping. †
- **DPFILE** → Number of files to be dumped. †
- **DPREC** → Number of records to be dumped. †
- **REW (REWIND)** → Y or N (Yes or No)

During typing of answers if a mistake is made, a carriage return will initiate the output of requests anew.

The following are examples of typical requests:

**EXAMPLE 1**

STANDARD (A, B, C or D) or NO (N)

N (S)

TAPE-DENSITY-PARITY-FORMAT-SKFILE-SKREC-DPFILE-DPPREC-REW

A H E B 001 000 000 010 Y

In response to this request, the program will rewind tape, skip one file, dump ten records (from the second file) of Tape A, in BCD high density, even parity.

*Ability to select parity has been included for special cases. Normally, BCD and Fielddata are even parity and octal (binary) is odd.

†Answer must have 3 decimal digits; for no action, answer 000.
EXAMPLE 2

STANDARD (A, B, C or D) or NO (N)
N
TAPE-DENSITY-PARITY-FORMAT-SKFILE-SKREC-DPFILE-DPREC-REW
D L E F 000 000 003 009 N

In response to this request, the program dumps first three files and nine records from the fourth file. From Tape D, in Fieldata, low density, even parity.

EXAMPLE 3

STANDARD (A, B, C or D) or NO (N)
B

In response to this request, the program dumps the first 511 files from Tape B, in octal, high density, odd parity.
INTRODUCTION

A U-490 program is available which permits U-490 users to have their program manuscripts transcribed directly onto IBM cards by the Lincoln Laboratory card room facility in a format to be described below. The resulting card deck is loaded onto magnetic tape (see 1401 Procedures below for details) by the IBM 1401 off-line facility. The resulting BCD magnetic tape, then, is the input to the program being described, whose output is a SPURT 301 Tape which becomes immediately available for compilation by SPURT.

CARD FORMAT

A. Label Field

Columns 1 through 10 of the 80-column card will contain the label (if any) associated with this line of SPURT coding.

B. Continuation Column

Column 11 has been reserved for possible continuation purposes. Leave it blank.

C. Operator/Operator + V Field

Columns 12 through 21 must contain an operator beginning in column 12. The operator may stand alone in this field or it may be accompanied by the \( V_o \) operand if the \( V_o \) operand is either the "r" (Register) or "e" (Expression) type of operand. When both appear in this field, they are separated by exactly one blank.

D. Operand/Commentary Field

Columns 22 through 80 comprise this field. Any remaining operands (including \( V_o \)) to be included in this line must begin in column 22. The point separator in this field is the comma (,). The commentary field for those operators which may have notation (see Special Operators) is defined as beginning in the column following the first blank in columns 22 to 80. Commas (point separators in the operand field) may be freely used as such in the commentary field.
PROGRAM FORMAT

The first card of every program must have the program label in the label field. Additionally, the symbol, PROGRAM, appears in the operator field while the programmer's name and the date occupy the operand/commentary field separated by the point separator (.). A typical first card might appear:

```
SORTER  PROGRAM  JSMITH, 6/10/65
```

No end card should be present. The end of file signals the end of program.

SPECIAL OPERATORS

A. DEC

This pseudo operation (not present in SPURT) permits the entry of fixed-point mixed numbers into the SPURT program by means of a pre-assembly conversion of the mixed number to its octal integer equivalent. The Format:

```
Operator Field   Operand Field
DEC               + III. FFFBDD
```

CAUTION! The sum of the decimal places represented by the I's and F's must be less than or equal to 9 and the number considered as a decimal integer (decimal point removed) must be within the range of the 29-bit word size. \((536870912 > |N|)\)

The binary point position is indicated by the non-negative decimal integer(s) following the B in the format above. A "B" of zero connotes an integer. Depending on the number being entered, the number of I's or F's may be zero or non-zero, the decimal point may or may not be present, but the B must appear.

B. TYPET

The \(V_o\) operand starts in column 22 and extends to the right in blocks of 5 columns until the rightmost non-blank column is found. No commentary is permitted. Commas are permitted in the \(V_o\) operand. NOTE: The vertical bar (\(|\)) is entered as a dollar sigh ($)

C. FD

The count for the FD pseudo-op must appear as the \(V_o\) operand in the OPERATOR FIELD, i.e., columns 15 or 15 and 16 must contain a decimal
count. The D (for decimal) must be present when the count is greater than 7.

The text starts in column 22 and no commentary is allowed. A count of zero results in a search for the rightmost non-blank character which determines how many columns are presented to SPURT for assembly.

D. FORM-TEXT

Because of the nature of this macro-type operation, no commas are permitted in the text portion of the operand field.

E. Constants

Upper Half - Lower Half
For this arrangement, the upper half begins in column 12 and the lower half begins in column 22. No point separator is used.

Whole Word

Any whole word entry which, because of a preceding minus sign or a trailing D (decimal indicator), does not fit entirely in the operator field must be entered by the "upper half - lower half" method for octal integers and by the DEC pseudo op for decimal integers.

1401 PROCEDURES

The card-to-tape procedure at the 1401 is normal except that the card-to-tape load program must be the special "80-column loader" written especially for this application.

SUGGESTION: To minimize the possibility of trouble at Haystack, it is probably worthwhile loading a given program twice, creating a second back-up file on the same BCD tape.

Print the tape and examine columns 81 to 84 of the listing. If zeros are present in these columns, the wrong loader has been used.

U-490 PROCEDURES

The program that converts the BCD tape to the SPURT 301 tape is called MAKEA301TP. It is currently a utility program on the SPURT tape.

Mount the SPURT tape on logical 0 (A).
Mount the BCD tape to be converted on logical 2 (C).
Mount a spare (output 301 tape) on logical 3 (D).

Under TOPS control
Type in

LS□MK 301 (carriage return)
PLOTTER (CAL COMP)

INTRODUCTION

The Haystack Plotter Program was written to give a graphical representation of the recorded output from the Haystack Pointing System.

The program was written in Fortran to operate on the IBM 7094. The output of the program is a tape to be used as an input to an IBM 1401 Computer Program. The output of the IBM 1401 Computer Program is plotted on a Cal Comp Plotter. The plot size, its scaling, overprinting etc., are controlled by parameter cards used by the Haystack Plotter Program.

INPUT

A magnetic tape produced by the Haystack Printout Program is the primary input to the Haystack Plotter Program. Control cards are used by the Plotter Program, to control the size of the plot, the scaling, etc.

OUTPUT

A plot from the Cal Comp Plotter is the final output using the Haystack Plotter Program. The plot is not an output directly from the Haystack Plotter Program, but rather an output from an IBM 1401 Computer Program that utilizes as input a magnetic tape generated by the Haystack Plotter Program on the IBM 7094.

OPERATION

The Haystack Plotter Program was written in Fortran to be compiled and executed on the IBM 7094 computer.

An IBM compatible BCD magnetic tape, generated by the Printout program from the Haystack System Recording Tape, is one of the inputs to the Haystack Plotter Program, the other input is from cards, as follows:
### INPUT CARDS

<table>
<thead>
<tr>
<th>Card</th>
<th>Col.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card 1</td>
<td>1 and 2</td>
<td>Start Hour</td>
</tr>
<tr>
<td></td>
<td>4 and 5</td>
<td>Start Minute</td>
</tr>
<tr>
<td></td>
<td>7 and 8</td>
<td>Start Second</td>
</tr>
<tr>
<td></td>
<td>12 and 13</td>
<td>End Hour</td>
</tr>
<tr>
<td></td>
<td>15 and 16</td>
<td>End Minute</td>
</tr>
<tr>
<td></td>
<td>18 and 19</td>
<td>End Second</td>
</tr>
<tr>
<td>Card</td>
<td>1-3</td>
<td>X-Axis (for time, leave max and min points blank)</td>
</tr>
<tr>
<td></td>
<td>6-13</td>
<td>Minimum Point (Floating Point)</td>
</tr>
<tr>
<td></td>
<td>16-23</td>
<td>Maximum Point (Floating Point)</td>
</tr>
<tr>
<td>Card 3</td>
<td>1-3</td>
<td>Y-Axis</td>
</tr>
<tr>
<td></td>
<td>6-13</td>
<td>Minimum Point (Floating Point)</td>
</tr>
<tr>
<td></td>
<td>16-23</td>
<td>Maximum Point (Floating Point)</td>
</tr>
<tr>
<td>Card 4</td>
<td>1</td>
<td>Ø = Solid Line Plot (Fixed Point)</td>
</tr>
<tr>
<td></td>
<td>3-5</td>
<td>1 = Broken Line Plot (Fixed Point)</td>
</tr>
<tr>
<td></td>
<td>7-10</td>
<td>Number Points per frame (Fixed Point)</td>
</tr>
<tr>
<td></td>
<td>12-15</td>
<td>No. Inches in X-axis (Floating Point) (Leave Blank for Time)</td>
</tr>
<tr>
<td>Card 5</td>
<td>1</td>
<td>No. Inches in Y-Axis (Floating Point)</td>
</tr>
</tbody>
</table>

The selections of X-Axis versus Y-Axis are:

1 = Completed Request
2 = Over Plot (No new scaling)
3 = Additional Plot same File
4 = Plot From Next File
<table>
<thead>
<tr>
<th>X-Axis</th>
<th>Y-Axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIM (TIME)</td>
<td>vs.</td>
</tr>
<tr>
<td>TIM (TIME)</td>
<td>vs. AAZ (Actual Azimuth)</td>
</tr>
<tr>
<td>TIM (TIME)</td>
<td>vs. AEL (Actual Elevation)</td>
</tr>
<tr>
<td>TIM (TIME)</td>
<td>vs. CAZ (Command Azimuth)</td>
</tr>
<tr>
<td>TIM (TIME)</td>
<td>vs. CEL (Command Elevation)</td>
</tr>
<tr>
<td>AAZ</td>
<td>vs. AEL</td>
</tr>
<tr>
<td>AAZ</td>
<td>vs. CAZ</td>
</tr>
<tr>
<td>AAZ</td>
<td>vs. CEL</td>
</tr>
<tr>
<td>AEL</td>
<td>vs. CAZ</td>
</tr>
<tr>
<td>AEL</td>
<td>vs. CEL</td>
</tr>
<tr>
<td>CAZ</td>
<td>vs. CEL</td>
</tr>
</tbody>
</table>

These are the only combinations available in the program.

Each file of each input tape has a title associated with it. The title along with the start and end times are written on the output tape to be plotted. Following these are the axes, the axes scaling, and the data converted from BCD to plotter units to make the curve.

Plotter Program requirements:

- System: FMS
- Input Tape: B6 556 LPI
- Output Tape: A6 800 LPI
- Control Cards must follow the program deck

A sample listing of an Input Tape, and a plot from the Cal Comp Plotter will be found in the following pages.
### AGCUN LENS II

**TIME INCOMING COMMAND COMMAND**

<table>
<thead>
<tr>
<th>SECS</th>
<th>AZIMUTH ELEVATION</th>
<th>AZIMUTH ELEVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>328.1190 359.9797</td>
<td>243.3637</td>
</tr>
<tr>
<td>0.16</td>
<td>328.1190 359.9797</td>
<td>243.3666</td>
</tr>
<tr>
<td>0.32</td>
<td>328.1190 359.9797</td>
<td>243.3694</td>
</tr>
<tr>
<td>0.48</td>
<td>328.1190 359.9797</td>
<td>243.3723</td>
</tr>
<tr>
<td>0.64</td>
<td>328.1190 359.9797</td>
<td>243.3750</td>
</tr>
<tr>
<td>0.80</td>
<td>328.1190 359.9797</td>
<td>243.3779</td>
</tr>
<tr>
<td>0.96</td>
<td>328.1190 359.9797</td>
<td>243.3807</td>
</tr>
<tr>
<td>1.12</td>
<td>328.1190 359.9797</td>
<td>243.3834</td>
</tr>
<tr>
<td>1.28</td>
<td>328.1190 359.9797</td>
<td>243.3861</td>
</tr>
</tbody>
</table>

### ACUGU LENS II

**TIME INCOMING COMMAND COMMAND**

<table>
<thead>
<tr>
<th>SECS</th>
<th>AZIMUTH ELEVATION</th>
<th>AZIMUTH ELEVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>328.1190 359.9797</td>
<td>243.3637</td>
</tr>
<tr>
<td>0.16</td>
<td>328.1190 359.9797</td>
<td>243.3666</td>
</tr>
<tr>
<td>0.32</td>
<td>328.1190 359.9797</td>
<td>243.3694</td>
</tr>
<tr>
<td>0.48</td>
<td>328.1190 359.9797</td>
<td>243.3723</td>
</tr>
<tr>
<td>0.64</td>
<td>328.1190 359.9797</td>
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</tr>
<tr>
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<td>243.3861</td>
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### ACUGU LENS II

**TIME INCOMING COMMAND COMMAND**

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<th>SECS</th>
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<th>AZIMUTH ELEVATION</th>
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</tr>
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<td>243.3861</td>
</tr>
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PUNCHALLOC

In the Haystack Pointing System certain quantities are of interest to, or shared by, many programs. It is essential that separate programs reference the same memory cell when using common symbolic notation within a program. A Flexowriter tape called the SPURT allocation tape* provides this assurance. This tape is really an external symbol table used by the SPURT compiler to equate symbolic labels with absolute memory cells. Because it is tedious to update paper tape whenever a change is made, a card deck containing this information is maintained. The PUNCHALLOC program transfers the card images on magnetic tape to a System Allocation paper tape.

INPUT

The deck of input cards containing allocation data must be loaded on magnetic tape at 556 characters-per-inch density with the 80 column loader at the Building J computer facility.

The card deck consists of a heading card followed by allocation cards interspersed with comment cards.

CARD FORMAT

<table>
<thead>
<tr>
<th>Card Type</th>
<th>Col.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Heading Card</td>
<td>1-10</td>
<td>Label (must start in column 1)</td>
</tr>
<tr>
<td></td>
<td>12-21</td>
<td>ALLOCATION</td>
</tr>
<tr>
<td></td>
<td>22-80</td>
<td>A comma followed by comments, terminated by a blank (these comments will be punched)</td>
</tr>
<tr>
<td>Allocation Cards</td>
<td>1-10</td>
<td>Label (must start in column 1)</td>
</tr>
<tr>
<td></td>
<td>12-16</td>
<td>Location, five digits in octal.</td>
</tr>
<tr>
<td></td>
<td>17-80</td>
<td>Comments (these will not be punched)</td>
</tr>
<tr>
<td>Comment Cards</td>
<td></td>
<td>If column one is blank, none of the card will be punched. (This card was designed to expand comments for IBM 1401 printout, not for U490 application.)</td>
</tr>
</tbody>
</table>

OUTPUT

The format for the punched paper Allocation tape is as follows:

The notation used is as follows:

- Carriage Return
↑ Upper Case
→ Tab
⊙ Point Separator
↓ Lower Case
. Period

PROGRAM LOGIC

SPURT listings 210, 211, 212 appear in Appendix C.

At location BEGIN the paper tape punch connected to the U490 is turned on and a leader is punched. Buffer control is set to write from BUF1 first and BUFSW is set to alternate output buffers.

The first card is then read from magnetic tape. All input from magnetic tape is accomplished using the subroutine READTAPE. This subroutine reads BCD records from tape into a location designated in the calling sequence and checks the status of the tape unit after reading. Control is passed to EOF whenever an end-of-file mark is encountered.

The contents of the operation field (Cols. 12-21) of the card is verified to contain the letters ALLOCATION to be certain that the correct input is being used. In the event of a mismatch, the program stops and pressing the high-speed button will restart the program at the beginning. With no mismatch, the first buffer is started with carriage return, upper case, carriage return.
Now the location field, up to the first blank, is converted to Flexowriter characters by the subroutine BCDTOFLEXO. The subroutine converts BCD, starting with the word in INBUF + B1 and puts each Flexowriter character in a separate word starting at $0 + B5$. Therefore, B1 must be set before BCDTOFLEXO is called. B5 is reset when the buffers are switched and is stepped whenever a character is stored.

A tab is then inserted into the card image immediately ahead of the operation field (Col. 11) and the rest of the card, to the first blank, is converted to Flexowriter characters.

Location L14D is the beginning of the main loop. Beginning at this location, a carriage return is added to the output buffer, the output buffer control is set up, the buffers are switched and output of the full buffer is initiated.

At location NOTHERCARD the next card is read from tape using READTAPE. Column one of this card is checked. If it is blank the card is a comment card, which is skipped and another card is read and checked.

If column one is non-blank the word in the location field of the card is converted to Flexowriter characters with BCDTOFLEXO, a tab is added to the output buffer and the five digit location field is converted.

Control is then returned to L14D and the program cycles until it is interrupted when READTAPE finds an end-of-file mark and control is transferred to EOF.

EOF finishes the paper tape with carriage return, lower case, period, period and a trailer, turns the paper tape punch off and stops.

Pressing the high-speed button will recycle the program from the beginning.

OPERATION

A. Load the Allocation cards on tape at the density of 556 characters-per-inch as one file with the IBM 1401 using the 80 column loader.

B. Load the program at a convenient location using TOPS.

C. Mount the BCD input tape on servo 3 (normally drive D).

D. Start at the load location.
Start

Turn Punch On and Punch Leader

Initialize to Switch Output Buffers

Start First Buffer with CR, UC, CR

Read a Card from Tape

Is the Word "Allocation" in Column 12-21?

Yes

Convert First Card

Add a CR to the End of the Output Buffer, Switch Buffers and Set Up Output Control, and Initiate Output

Either Throw a Card Away because It Is a Comment Card or Convert It to Flexowriter Code and Put It into the Output Buffer

No

Stop

Finish the Paper Tape with CR, LL, Period, Period and Leader

Turn the Punch Off

Stop
SYSLOADER

INTRODUCTION

The SYSLOADER program is a Haystack Pointing System Peripheral program whose major purpose is to load and merge the presently thirty individual system programs onto a Master Pointing Program magnetic tape so as to optimize the loading and operation of the Pointing System.

INPUT

Inputs to the program are: 1) Instructions from the user via the teleprinter, 2) the Master In-Core Programs Tape, 3) the Master Celestial Computation Programs Tape and 4) the Master Data Processing Programs Tape. Inputs 2, 3 and 4 are generated by the System Updater program and are in the Spurt 321 format.

OUTPUT

Principal output is the Master Bootstrap Pointing Program Tape whose format will be discussed in some detail. Additionally, SYSLOADER affords a teleprinter type-out which includes a map of allocated memory as well as a log of all proceedings. An example of this type-out is given in Fig. 1.

OPERATION

SYSLOADER was designed as an upper loader and is usually loaded by TOPS at 70000; the dynamic start point is at load location +2 hence 70002.

Transfer to this point will cause SYSLOADER to type:
KEY 1 ON = NO LOG, KEY 2 ON = DUP INPUT ... ENTER DATE ETC ...

This is a memory jog to the user which says that if jump key 1 is turned on, there will be no type out of the memory map whereas if jump key 2 is turned on, all magnetic tape records read from unit 2 (usually servo C) will be copied onto unit 3 (usually servo D). Finally, the user is invited to type in any number of alphanumeric characters he wishes for identification purposes. The terminating character here (as well as elsewhere in SYSLOADER) is the C. R. (carriage return).

Core memory location 1378 at this point contains the entry to Univac's utility package known as TOPS. Because this location might be overlayed in the
process of making the Master Pointing Program Tape, SYSLOADER transfers the contents of this location to the C/S (common storage) register SKIP for later use by the control program MCP.

Now SYSLOADER types out the message . . .

I/C (1) B/S (2) CCP (3) DPP (4)

which when translated means: to process the Master In-Core Programs Tape enter 1 followed by a C. R.; for the Master Celestial Programs Tape enter 3 and a C. R.; for the Master Data Processing Programs Tape enter 4 and a C. R.; finally, if you are ready to make a "bootstrap" record, enter a 2 and a C. R.

It should be noted that the ordering of the activities is left to the user and not determined by the program. Thus, it is that SYSLOADER can be used just to load the Master In-Core Program Tape or just to duplicate any one of the three master tapes that are inputs to the program. We shall, however, follow the program in what is the normal course of events. We shall assume that the user has on hand an up-to-date version of each of the input masters and wishes to obtain a Master Boot-strap Pointing Program System Tape and a type-out of allocated memory.

A. **Phase I: Processing the Master In-Core Programs Tape**

In answer to the question posed above, the user would first elect choice (1), the in-core programs.

Next, SYSLOADER will type-out

B/A (UNLESS 6000)

which asks where in memory (base address) you wish to originate the system. If the answer is not 6000, type in up to 5 octal digits and C. R. or if 6000 is your choice only C. R. (Memory locations ~ 0 to ~ 6000 contain TOPS. Because the Pointing System and TOPS can coexist, system origin has been arbitrarily placed at 6000. If the need for more storage arises, there is nothing to prevent electing a lower system origin, say 200, at this point.)

Now SYSLOADER types out the headings of the columns as follows:

| SYSTEM PROGRAM PROGRAMMER + DATE FIRST LAST RUN INIT |
| NAME NAME LOCTN LOCTN ENTRY ENTRY |

and proceeds to load program after program provided each is in the correct format, density, parity, etc. Each program is loaded one behind the other with a spacing
between programs that can be varied. As each program is loaded, that program’s five field data character “name” is placed in the SYSNAMES table in C/S and its U-TAG is added to the SYSENTRIES table in C/S. When SYSLOADER detects that it is loading the control program, MCP, that U-TAG is additionally placed in C/S register MCPGM for reasons to be seen later.

This business of stacking the individual programs goes on until either an incompatible format (non Spurt 321 or 320) or an end-of-file is detected. If at this point SYSLOADER has been copying the input records onto magnetic tape unit 3, it will type . . .

EOF ON D (1)

meaning . . . if you desire to write an end-of-file on servo D (unit 3) answer with a 1 and a C.R. Otherwise, just a C.R. In either event the program again asks the basic question . . .

IC (1) B/S (2) CCP (3) DPP (4)

Assuming we have arrived here as a result of an end-of-file being found on the Master In-Core Program Tape, which was just correctly read and loaded, we are now ready to copy out this image of core memory onto tape as a bootstrap record and this is done in Phase II.

B. Phase II: Bootstrap

"Bootstrap" is the name given to the mechanism whereby a magnetic tape of indefinite length in the correct format is automatically loaded, checksummed, and executed by the UNIVAC hardware. The Pointing Program bootstrap record is made on unit 0 (normally servo A).

Thus when the bootstrap option is elected, SYSLOADER positions the tape on unit 0 to the loadpoint since the bootstrap record (by definition) is the first record on a bootstrap tape.

Now the question . . .

FWA

which asks the user to type in up to 5 octal digits to specify the first word address of the record to be bootstrapped. A carriage return here is equivalent to answering 1408 and this is usually the case since it permits recording TOPS which is normally in core at this time.
Next the question . . .

LWA

which analogously is the last word address of the block. A carriage return is equivalent to typing 77776. (The checksum must be placed in LWA + 1 = 77777.) Thus, it is that virtually all of core memory is set up for recording in the single bootstrap record. Before the record is actually written, two things occur:

First, a JPL(MCPGM) is inserted in the record such that this will be the instruction that is executed when the record is successfully bootstrapped. Thus it is that control will pass automatically to the control program, MCP, upon bootstrapping irrespective of where in memory SYSLOADER has placed it.

Second, the entire block which is about to be written is check summed and this sum complemented is made the last word in the block.

Now the record is written. If the record is non-normal in any respect, SYSLOADER repositions the tape and retries indefinitely. A successful recording results in the typing of

B/S DONE . . .

followed again by the basic question

I/C (1) B/S (2) CCP (3) DPP (4)

The tape on Unit 0 is now positioned at the end of the bootstrap record. The next step is to add the individual Celestial Computation Programs and this is done in Phase III.

C. Phase III: Processing the Master Celestial Computation Programs Tape

As SYSLOADER loads the in-core programs, it keeps a running base address, i.e., where in memory the next program will go. Thus, it is that when CCP is elected as an option SYSLOADER will ask . . .

B/A OTHER THAN NNNNN

when NNNNN is the location where the next in-core program would have gone. If this location is satisfactory, the user merely touches the carriage return. Otherwise he enters a five digit octal number and this will be the common origin of all the celestial computation programs.
Now SYSLOADER begins the process of reading in the celestial computation programs one after the other. As each is read in to the common origin specified SYSLOADER forms a self-contained image of the program which is written out as a single record for each program onto the Master Pointing Program Tape on unit 0. Each program is written out in such a way that it can be later loaded by MCP in the highly efficient UNIVAC search read mode. The format of these search mode records is included in Fig. 2 - Layout of the Master Pointing Program System Tape.

As SYSLOADER loads and records the celestial computation programs, a note is made as to the amount of storage required by the largest of these programs. This is done so that SYSLOADER will be able to recommend a common origin for the Data Processing Programs which must occupy a place in core memory behind the longest celestial computation program.

Loading of the celestial computation programs is terminated upon encounter of a change of format or an end-of-file on the Master Celestial Computation Programs Tape. At this point SYSLOADER asks ...

EOF (1)
which in effect says that if the celestial computation program just loaded was the last one to be loaded and if there are no data processing programs to be added to the Master Pointing Program Tape, an end-of-file should be written here and will be written by responding with a 1 and a C.R. If no end-of-file is desired merely carriage return. And again the basic question ...

I/C (1) B/S (2) CCP (3) DPP (4)

At this point the user may elect to add the last class of programs to the Master tape, the Data Processing Programs.

D. Phase IV: Processing the Master Data Processing Programs Tape

Here SYSLOADER will type out ...

B/A OTHER THAN MMMMM
where MMMMM is a five digit octal integer representing a location in memory behind the longest celestial computation program at which the data processing programs may share a common origin. From this point on the loading of the data processing programs exactly parallels that for the celestial computation programs. When this phase of loading is completed the user is again invited to write an end-of-file on the
Master Tape. Since at this point there is nothing further to add to the tape, the user must elect to write the end-of-file.

Now the user is ready to test the new tape and initiates this procedure by pressing the "start Pointing Program" button. This action automatically rewinds the tape and activates the bootstrap mechanism. A successful write-out of the bootstrap record will be indicated when the type-out TITLE appears on the teleprinter.
<table>
<thead>
<tr>
<th>SYSTEM NAME</th>
<th>PROGRAM NAME</th>
<th>PROGRAMMER + DATE</th>
<th>FIRST LOCTN.</th>
<th>LAST LOCTN.</th>
<th>RUN ENTRY</th>
<th>INIT ENTRY</th>
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<tbody>
<tr>
<td>MCPGM</td>
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<td>S. J. WHITE<em>MAR. 25</em>64</td>
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<td>PRINTOUT</td>
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<td>54576</td>
</tr>
</tbody>
</table>

Fig. 1.
LAYOUT OF MASTER POINTING PROGRAM MAGNETIC TAPE

I. GROSS FORMAT

- Contains all "In-core" Programs and Tapes Utility Program
- Individual Celestial Computation Programs
- Individual Data Processing Programs

II. BOOTSTRAP RECORD FORMAT

- Formed in Memory at FWA-2
- Indirect Jump to MCP
- First Word to Be restored in Memory = FWA

III. SEARCH MODE RECORD FORMAT

- Formed in Memory at Base Address = 2
- Working Entry; Initialization Entry
- Five Field data Character Name

Fig. 2. Layout of master pointing program magnetic tape.
INTRODUCTION

To permit duplication of ephemeris tapes, and of the master in-core, celestial, and data processing program tapes, a tape copying program (TAPECOPY) was written for the U-490.

INPUT

The input is a binary format, high density, magnetic tape on Servo unit 2, of any number of files and records. The maximum size record that can be handled is 77711-K (in octal) where K is the storage location at which the program is loaded. Since K is at least 136, the master bootstrap tape which has an initial record of 77642 words cannot be duplicated by this program. Duplicate copies of the bootstrap tape must be made by SYSLOADER (see the write-up elsewhere in this memo for details).

OUTPUT

The output is a copy of the input tape. It is written on Servo unit 3.

When each file is written the number of records in that file is displayed (in octal) in index register 2. The total number of files written on the tape is displayed in index register 1.

Any other status word, but a normal or end-of-file indication, causes the program to stop. Any troubles with the tape must be fixed, or a new tape loaded. Pushing HIGH SPEED initiates duplication of the next tape.
INTRODUCTION

Each program included in the dynamic Haystack Pointing System is recorded on one of three Master System magnetic tapes* in SPURT 321 format†. As individual programs change, a method is needed to update the particular Master System Tape (MST) on which it appears. A Haystack Pointing System support program, called UPDATER, was written for this purpose.

INPUT

There are three inputs to UPDATER, the particular MST to be updated, the tape containing new versions of existing programs and/or additional new programs, and, via the typewriter, the deletions (if any) that are to be made from the new MST.

A. Old Master System Tape

The primary input is the old MST. This must contain at least one program in SPURT 321 format. These programs must be separated from each other by end-of-record marks and not end-of-file marks. The last program is followed by an end-of-file mark or a change of format (non-SPURT 321).

B. Correction Tape

All programs to replace programs on the old MST and all programs to be added to the new MST must appear on a second magnetic tape in format identical to the old tape.

One system convention demands that the second word of memory occupied by each program contain a five Field data character System Name which is that program's unique identifier. This System Name is the means by which UPDATER distinguishes each program.

* (1) Master In-Core Programs Tape (2) Master Celestial Computation Programs Tape (3) Master Data Processing Programs Tape.
† SPURT 321 format is a relative bi-octal format used as input to SPURT III. It is described in the REX manual, Appendix A, section B.
When the same System Name appears on both the old MST and the correction tape, the program from the correction tape will replace the old one on the new MST being written. Any programs which appear on the correction tape but not on the old tape will be added at the end of the new MST.

C. Deletions

At the outset, the program stops and asks for the System Names of programs to be erased from the old tape. The five character System Names should be typed, separated by the special character D on the keyboard and ended by a carriage return.

Programs whose names are listed here will not appear on the new MST. If there are to be no erasures, simply carriage return.

Errors at the keyboard can be corrected by striking the '1' key for each character to be changed.

OUTPUT

The output is a new Master System Tape in the same format as the input. It is simply the old tape with additions, replacements and deletions.

PROGRAM LOGIC

SPURT listings 210, 211, 212 appear in Appendix A.

From BEGIN through FIRSTERASE the program asks for erasures and makes a table, called ERASELIST, from the list typed at the console.

From FIRSTERASE +4 through CSLISTED, UPDATER searches the correction tape and makes a table, called CHANGELIST, of all the System Names it finds.

Starting at CKNEXTOLD it picks up a System Name from the old tape and checks it with both CHANGELIST and ERASELIST.

If the name is on neither list, the program is copied from the old tape to the new. If it is in CHANGELIST, the program is skipped on the old tape and the program of the same name is copied from the correction tape to the new tape. If it is in ERASELIST the program is simply skipped on the old and new tapes. After any of these three alternatives the program returns to CKNEXTOLD.

This loop is terminated by either an end-of-file mark or a change of format on the old tape. At that time, UPDATER jumps to EOF where CHANGELIST is
searched and all programs not previously copied to the new tape are added to the end of it. The program then writes an end-of-file mark on the new tape and rewinds all three tapes. Unless jump key 1 is on, a log of the old MST is typed on the console typewriter and, unless jump key 2 is on, a log of the new MST is typed on the console typewriter. UPDATER now stops ready to recycle when the high-speed button is depressed.

OPERATION

A. Load the UPDATER program at some convenient location using TOPS.

B. Mount the old Master System Tape to be updated on servo 1 (normally drive B).

C. Mount a corrective tape, containing new programs and/or new versions of old programs on servo 2 (tape unit C).

D. Mount a blank tape on servo 3 (tape unit D) to receive the new version of the particular Master System Tape.

E. Start at the load location.

F. The program will stop and ask for any deletions. If there are any, type their five character system names, separated by the □ character and terminated with a carriage return. If there are none, type a carriage return.
UPDATER FLOW DIAGRAM

Start

BEGIN

- Ask for Erasures. Put the List in ERASELIST and the Number into the RPT Instruction at MAYBERASE

FIRSTERASE

- Search the Correction Tape. Make a list of the Program Names in CHANGLIST and Put the Number in the RPT Instruction at FINDCHANGE

MOVEON

- Get Program Name from the Next Program on the Old Tape

A

- No

B

AnyMorePrograms

FINDCHANGE

- Is It in CHANGLIST?

REPLACE

- Yes

Search Correction Tape for New Program and Copy the Replacement onto the New Tape

Search CHANGLIST and Copy All Programs Not Previously Copied onto the New Tape

STOP

C

- Yes

MAYBERASE

- Is It in ERASELIST?

Copy Old Program

D

- No

Move on

Get Program Name from the Next Program on the Old Tape

Search Correction Tape for New Program and Copy the Replacement onto the New Tape

Search CHANGLIST and Copy All Programs Not Previously Copied onto the New Tape

Rewind All Tapes and Log the Old and the New Tapes Unless Switches Are On

STOP

C
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SPURT OUTPUT NO. 210  LIST 210  MATHIASEN 8/21/64

FOR READING IN NEXT LINE

NO.  OBTAIN COUNT OF LINES IN RECORD - 1

ADDRESS OF FIRST WORD OF LINE

DIFFERENCE OF ADDRESSES
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The table contains rows with entries such as "CC22 UNIFORM," "CC23 PARITY," "CC24 PARITY," "CC25 UNIFORM," "CC26 PARITY," and so on.

The table seems to be related to some sort of data processing or machine fault, possibly related to a computer's magnetic tape or similar hardware.

The page also contains additional notes and codes such as "PARITY ROUTINE," "WRITE AMEND," "INDEX LINE COUNT," and "BACKSPACE FO."
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MASE-A301TP
JUN 1970/20/64

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END OF LISTING
S.J. WHITE  HAYSTACK PLOTTING PROGRAM  6/28/65

DIMENSION NAME(5),TIME(4),XAXIS),BUFFER(200)
CALL PLOTS (BUFFER(200),200)
100 FORMAT (312,1X),2X,312,1X))
101 FORMAT (A3,2X,PR,4,2X,PR,4)
102 FORMAT (11,IX,15,2(IX,FX,1),IX,13,A1)
103 FORMAT (1X,5A6)
104 FORMAT (2X,312,1X))
105 FORMAT (1)
106 FORMAT (4A6)
200 FORMAT (20HIMPROPER ENTRY OF THE X-AXIS )
201 FORMAT (4IW WITH TIME AS THE X-AXIS NO MATCH W/Y-AXIS )
202 FORMAT (4IW WITH AAZ AS THE X-AXIS NO MATCH W/Y-AXIS )
203 FORMAT (4IW WITH AEL AS THE X-AXIS NO MATCH W/Y-AXIS )
204 FORMAT (4IW WITH CAZ AS THE X-AXIS NO MATCH W/Y-AXIS )
TIM = 3HTIM
AAZ = 3HAAZ
AEL = 3HAEI
CAZ = 3HCZ
CEL = 3HCEL
XM=1HM
1001 CALL PLOT (XMLEN,-29,0,-3)
CALL PLOT (0,0,5,-3)
ASSIGN 400 TO K
1000 READ INPUT TAPE 2,100,ISTHR,ISTMIN,ISTSEC,IEOHR,IEOMIN,IEOSEC
BACKSPACE 2
READ INPUT TAPE 2,106,TIME(4),TIME(3),TIME(2),TIME(1)
READ INPUT TAPE 2,101,XAXIS,XMIN,XMAX
READ INPUT TAPE 2,101,YAXIS,YMIN,YMAX
READ INPUT TAPE 2,102,JTYPE,PNPTS,X1NHCH,Y1NHCH,NUMB,UNIT
NPNTS+1=1
NPNTS2=NPNTS
TIMIC = 0.
I3=3
C FING XAXIS
B 60 TEST = (TIM*XAXIS)*/(TIM*XAXIS))
IF (TEST) 60,61,60
B 60 TEST = (AAZ+XAXIS)*/(AAZ+XAXIS))
IF (TEST) 62,63,62
B 62 TEST = (AEL+XAXIS)*/(AEL+XAXIS))
IF (TEST) 64,65,64
B 64 TEST = (CAZ+XAXIS)*/(CAZ+XAXIS))
IF (TEST) 66,67,66
C WITH TIME AS THE AXIS FING YAXIS
B 61 TEST = (AAZ+YAXIS)*/(AAZ+YAXIS))
IF (TEST) 70,71,70
B 70 TEST = (AEL+YAXIS)*/(AEL+YAXIS))
IF (TEST) 72,73,72
B 72 TEST = (CAZ+YAXIS)*/(CAZ+YAXIS))
IF (TEST) 74,75,74
B 74 TEST = (CEL+YAXIS)*/(CEL+YAXIS))
IF (TEST) 76,77,76
C WITH AAZ AS XAXIS FING YAXIS
B 63 TEST = (AEL+YAXIS)*/(AEL+YAXIS))
IF (TEST) 80,81,80
B 80 TEST = (CAZ+YAXIS)*/(CAZ+YAXIS))
S.J. WHITE  HAYSTACK PLOTTER PROGRAM

IF (TEST) 82, 93, 82
8  82 TEST = (CEL+YAXIS)*-(CEA+YAXIS)
   IF (TEST) 84+85, 84
C  WITH AEL AS XAXIS FIND YAXIS
8  85 TEST = (CAZ+YAXIS)*-(CAZ+YAXIS)
   IF (TEST) 86, 87, 86
8  86 TEST = (CEL+YAXIS)*-(CEL+YAXIS)
   IF (TEST) 89, 90, 89
8  87 TEST = (CEL+YAXIS)*-(CEL+YAXIS)
   IF (TEST) 90, 90, 91
C  TIME VS. AAZ
  71 XX(1) = 6H(2X,F5)
     XX(2) = 6H,3,1X,
     XX(3) = 5HFB,4J
     GO TO 380
C  TIME VS. AEL
  73 XX(1) = 6H(2X,F5)
     XX(2) = 6H,3,19X
     XX(3) = 6HFB,4J
     GO TO 380
C  TIME VS. CAZ
  75 XX(1) = 6H(2X,F5)
     XX(2) = 6H,3,19X
     XX(3) = 6HFB,4J
     GO TO 380
C  TIME VS. CEL
  77 XX(1) = 6H(2X,F5)
     XX(2) = 6H,3,20X
     XX(3) = 6HFB,4J
     GO TO 380
C  AAZ VS. AEL
  81 XX(1) = 6H(8X,FB)
     XX(2) = 6H,4,1X,
     XX(3) = 5HFB,4J
     GO TO 380
C  AAZ VS. CAZ
  83 XX(1) = 6H(8X,FB)
     XX(2) = 6H,4,19X
     XX(3) = 6HFB,4J
     GO TO 380
C  AAZ VS. CEL
  85 XX(1) = 6H(8X,FB)
     XX(2) = 6H,4,19X
     XX(3) = 6HFB,4J
     GO TO 380
C  AEL VS. CAZ
  87 XX(1) = 6H(18X,F)
     XX(2) = 6H,4,1X
     XX(3) = 6HFB,4J
     GO TO 380
C  AEL VS. CEL
  89 XX(1) = 6H(17X,F)
     XX(2) = 6H8,4,10
     XX(3) = 6HFB,4J
     GO TO 380
C  CAZ VS. CEL

6/29/65
S. J. White

Haystack Plotter Program

6/23/65

91 XM1 = 6H12AX.F
XM2 = 6H8.4,1X
XM3 = 6H9.4,1X
500 GO TO K,1400,1)
8 400 TEST = 1
TIM = -1,XAXIS)
IF TEST) 10,11,10
10 DX = (XMAX-XMIN)/XINCH)*.10.
DY = (YMAX-YMIN)/YINCH)*.10.
CALL AXIS 10,0,0,XAXIS,3,XINCH,0,0,XMIN,DX)
CALL AXIS 10,0,0,YAXIS,3,YINCH,90,0,YMIN,DY)
XMEN = XINCH
GO TO 12
11 DY = (YMAX-YMIN)/YINCH)*.10.
IHR1 = IEDHR*3600
IMIN1 = IEDMIN*60
MSEC1 = IEDSEC + IMIN1 + IHR1
IHR2 = ISTHR*3600
IMIN2 = ISTMIN*60
MSEC2 = ISTSEC + IMIN2 + IHR2
MSECS = MSEC1 - MSEC2
8 TEST = (XM*UNIT)1-1X*UNIT))
IF TEST) 500,501,502
500 MSECS = MSECS/3600
GO TO 502
501 MSECS = MSECS/60
502 XNUMB = NUMB*10.
XMEN = MSECS/NUMB
CALL AXIS 10,0,0,0.4HTIME,4,XMLN,0,0,XMIN,NUMB)
CALL AXIS 10,0,0,XAXIS,3,YINCH,90,0,YMIN,DY)
12 READ INPUT TAPE 16,105,NAME(5),NAME(1),NAME(1),NAME(12),NAME(1)
CALL SKIP 11,5.
YNAME1 = YINCH+1.
YNAME2 = YINCH+.5
CALL SYMBOL (0.5,YNAME1,21,NAME(5),0,0,30)
CALL SYMBOL 12.5,YNAME2,21,1ITIME14,0,0,24)
1 CALL SKIP 12,7.
READ INPUT TAPE 16,104,IHR,IMIN,ISEC
IF (IHR-ISTHR) 50,51,51
51 IF IMIN-ISTMIN 50,52,52
52 IF ISEC-ISTSEC 50,53,53
50 ISKIP=NPNTS+4
CALL SKIP 15,SKIP,2)
GO TO 1
53 CALL SKIP 14,2)
DD 2 N=1,NPNTS
READ INPUT TAPE 16,XK,AAXIS,AYAXIS
TEST = 1
TIM = -1,AXAXIS)
IF TEST) 13,14,13
14 AXAXIS=AAXIS+TIMIC
13 IF IJTYPE) 15,22,15
15 IF IJBRK) 17,18,17
17 J=5
NAYYNE=NAYYNE-1
IF (1NAYYNE) 30,30,31
30 IJBRK=0
NAYYNE=NPNTS/50
S. J. WHITE  HAYSTACK PLOTTER PROGRAM

31 GO TO 22
10 NAYYE=NAYYE-1
  IF (NAYYE) 32,32,22
32 IBROK=1
NAYYE=NPTS/50
B 22 TEST= (TIME-XAXIS))
  IF ITEST) 20,21,20
20 AAXAXIS= (AXAXIS-XMIN)/(XMAX-XMIN)*XINC
  AAYAXIS= (AYAXIS-YMIN)/(YMAX-YMIN)*YINC
  GO TO 16
21 AAXAXIS= AAXAXIS/2.
  AAYAXIS= AAYAXIS/2.
16 CALL PLOT (AAXAXIS, AAYAXIS, 13)
2103 =2
  CALL SKIP (2,2)
  READ INPUT TAPE 16,104,IHR,IMIN,ISEC
  IF (IHR<100) 40,41,42
41 IF (IMIN<200) 40,42,42
42 IF (ISEC<200) 40,42,42
40 TIMIC + TIMIC + 2.
  GO TO 53
42 READ INPUT TAPE 2,105,4EXT00
  GO TO 145,44,47,48,49,4EXT00
46 CALL SKIP (1,4)
  ASSIGN 1 TO K
  CALL PLOT (0,0,-29,0,-5)
  CALL PLOT (0,0,4,5,-5)
  GO TO 1000
47 CALL SKIP (1,4)
  XMLEN =XMLEN+2.
  GO TO 1001
48 CALL SKIP (1,1)
  XMLEN =XMLEN+2.
  GO TO 1001
60 PRINT 200
  STOP 70707
70 PRINT 201
  STOP 70707
80 PRINT 202
  STOP 70707
80 PRINT 203
  STOP 70707
90 PRINT 204
  STOP 70707
45 XMLEN =XMLEN+2.
  CALL PLOT (XMLEN,-29,0,-5)
  CALL EXIT
END
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S.J. WHITE  HAYSTACK PLOTTER PROGRAM  6/23/65

EXTERNAL FORMULA NUMBERS WITH CORRESPONDING INTERNAL FORMULA NUMBERS AND OCTAL LOCATIONS
POST PROCESSOR ASSEMBLY DATA

53 is the first location not used by this program

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- GET A CHARACTER
- ISLATE IT
- IS IT A BLANK
- IS IT A BLANK
- GET ITS FLEXO EQUIVALENT
- INSERT OUTPUT TABLE
- INCENT OUTPUT CONTROL
- ARE THEIR MOKF CHARACTERS
- SET TO GET ANOTHER WORD
- STARTS WITH BUF2, BUF1
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**APE FOR NOW**

**GET SECOND RECORD**

**PROGRAM NAMETO THE LIST OF CHANGES**

**BY THE TIME THIS INSTRUCTION IS REACHED, L() CONTAINS THE NUMBER OF PROGRAMS TO CHANGE**

**SKIP THE REST OF THE PROGRAM ON THE OLD TAPE**

**SET TO READ CORRECTION TAPE**

**READ A NINE WORD RECORD**

**READ THE SECOND RECORD**

**THIS SHOULD BE THE PROGRAM I'M LOOKING FOR**

**IT IS, COPY IT**

**REWINING THE TAPE**

**GO CHECK THE NEXT OLD PROGRAM**

**THIS POINT WHEN THE END OF OLD TAPE IS FOUND**

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**THE TAPE DESCRIBED IN THE A REGISTER**
SPRINT OUTPUT NO. 210
UPD RTLA
MADFORD 12 AUG 64

CAROS L10 LABEL TA STATEMENT LOC F JKB Y NOTES

CO250 REING ENTRY 63360 61000 00000
. CO251 STR A*(REINGWHAT) 63361 15010 63371
. CO252 PUT REINGH*L(35) 63362 16000 63367
. CO253 RIL 63363 14010 00035
. CO254 EX-FCT TAPE*W(REINGWHAT) 63364 60000 00000
. CO255 JP $ 63365 13670 63371 REWIND UNIT SPECIFIED IN A REGISTER
. CO256 REINGDIR STR TAPE=W(STATUS) 63366 61000 63366 WAIT FOR INTERRUPT
. CO257 JP L(REING) 63367 17670 64635
. CO260 REINGWHAT 63370 61010 63360
. CO261 WEDFNEW ENTRY 63371 30100 00004
. CO262 PUT WEDFNEW*R(L35) 63372 61000 00000
. CO263 RIL 63373 10000 63460
. CO264 EX-FCT TAPE*1230000010 63374 14010 00035
. CO265 JP $ 63375 60000 00000
. CO266 WEDFNEWR STR TAPE=W(STATUS) 63376 13670 65001
. CO267 ENF A*(STATUS) 63377 61000 63377
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. CO272 COMMENT PROGRAM 63403 61000 00000
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. CO275 RJP READTAPE 63405 14010 63622
. CO276 U-TAG BUF1+HC*BUF1 63406 65000 64422
. CO277 CL U(JUSTROP) 63407 63635 63625
. CO300 RJP READTAPE 63410 16030 63616
. CO301 U-TAG BUF2+55D*BUF2 63411 65000 64422
. CO302 RJP COPY 63412 63725 63636
. CO303 JP L(COPYOUT) 63413 65000 63415
. CO304 COMMENT GIVEN 63414 61010 63403
. CO305 COMMENT IN 63415 61000 00000 A NINE WORD RECORD IN (BUF1),
. CO306 COMMENT TO 63416 65000 64665 A 56 WORD RECORD
. CO307 COMMENT WHOLE 63417 63635 63625 (BUF2) AND THE TAPE DESIGNATED
. CO310 COPY ENTRY 63420 11000 00000 IN (INTAPE) POSITIONED
. CO311 RJP WRITE 63421 70100 00067 THE POINT FOLLOWING THAT INFOR-
. CO312 U-TAG BUF1+8C*BUF1 63422 20030 63636 MATION; WRITE THE
. CO313 L14A CL A 63423 21430 63725 PROGRAM ON THE NEW TAPE
. CO314 RPT 55D+ADV 63424 61000 63443 A BAD PARITY IN 321 RECORD
. CO315 ADD A*(BUF2) 63425 65000 64665
. CO316 SUB A*(BUF2+55C)*ZERO 63426 63725 63636
. CO317 JP L14A 63427 65000 64422
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. CO322 RJP READTAPE 63431 61000 00000
. CO323 U-TAG BUF2+55D*BUF2 63432 65000 64422
. CO324 ENT A*(ENDOF) 63433 63725 63636
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**UPDATER**

**HAFORD*12#AUG*64**

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**CO614 STATUSCGDE**

**CO615**

**CO616**

**CO617**

**CO620**

**CO621**

**CO622**

**CO623**

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**CO634 MACHFAULT**

**CO635 UNITINC**

**CO636 FCSTATCGDE**

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**SPURT OUTPUT NO. 210 UPDATE**

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<td>A set of eight non-real-time service programs was written in support of the Haystack Pointing System to facilitate system maintenance and updating. Peripheral functions afforded by this set of programs include: (1) format conversion and remote printing facility of the SPURT assembler printer outputs 210, 211 and 212; (2) magnetic tape dumping; (3) &quot;effective&quot; punched card input to SPURT assembler; (4) CalComp plotting of system output; (5) punched card equivalents of Common Storage Allocation Tape; (6) automatic program loading with bootstrap tape generation facilities; (7) magnetic tape duplication; and (8) automatic updating of system tapes.</td>
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