

RECOMP II USERS' PROGRAM NO. 1153

PROGRAM TITLE:

PROGRAM DISPLAY

PROGRAM CLASSIFICATION:

AUTHORS:

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PURPOSE:

To provide a means of rapidly observing
a set of commands sequentially located
in memory.

DATE:

28 November 1962

Published by

RECOMP Users' Library

at

AUTONETICS INDUSTRIAL PRODUCTS

A DIVISION OF NORTH AMERICAN AVIATION, INC.

3400 East 70th Street, Long Beach 5, California

PROGRAM TITLE: PROGRAM DISPLAY

PURPOSE

To provide a means of rapidly observing a set of commands sequentially located in memory.

DESCRIPTION

The program makes use of the Start One, Two, and Three Buttons. The user enters the initial location to be viewed. Start One initiates the display. Start Three steps ahead in sequence, Start Two steps backwards. In addition, the program "remembers" the last location displayed. This location may be re-displayed at any subsequent time by depressing Start Two. In all cases, after each display, the computer halts with the location counter set to the location being displayed.

The display will also be initiated by a transfer to the origin (location 0000.0) either by an intentional transfer instruction or an attempt to execute a negative command. In this case, the location in which the transfer or negative command occurred will be displayed and the computer will halt at that location. The previous contents of the accumulator will be found in location 0022.0. This feature facilitates finding unintentional negative commands during checkout of a new program. Furthermore, a transfer to 0000.0 can be used, e.g., in subroutine error returns, to provide a diagnostic halt.

USAGE

Enter the initial location to be displayed, i.e., "L", four digits and zero. (It is immaterial whether the Enter key is depressed or not). Depress Start One. The contents of the specified location will be displayed in command format and the computer will halt with the location counter set to that location. After this initiation, the next location may be displayed by depressing Start Three; the preceding location may be displayed (ordinarily) by depressing Start Two. In any event the location counter will be set to the location being displayed. Thus, Start Three steps ahead through the program, Start Two steps backwards.

Start Two has a dual function. If, following a display, the contents of the accumulator are undisturbed, Start Two will display the location prior to that last displayed as described above. If, however, the contents of the accumulator are altered in any way, Start Two causes a re-display of the location last displayed. (Any entry of the keyboard will, in general, alter the contents of the accumulator).

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This latter feature has the following utility. Ordinarily, the display routine is used to verify that a portion of the users' program has been entered correctly. If an error is discovered, the location counter will be set at the location of the erroneous command, and the corrected command can be entered immediately. This, of course, alters the accumulator contents, and depressing Start Two will display the same location, i.e., the location of the command just entered. Thereupon, verification of the users' program can be continued in sequence.

Furthermore, the location last displayed is retained by the display program. Thus, following subsequent entry, computation, etc., the location counter may be quickly set to this location by simply depressing Start Two.

PROGRAM DISPLAY & MIXED NUMBER INPUT
0000 - 0027

0000.0

+ SAX	0022.0	+ ARS	0000.0
+ EXT	0017.0	+ TRA	0013.0
+ TRA	0010.0	+ ARS	0000.0
+ CLA	0016.0	+ TRA	0012.1
+ TRA	0006.1	+ FST	0000.0
+ CLA	0004.0	+ ADD	0023.0
+ TOV	0006.1	+ STA	0004.1
+ DIS	0004.0	+ HTR	0021.0

0010.0

+ SUB	0014.0	+ TOV	0014.1
+ TZE	0012.0	+ TRA	0014.1
+ CLS	0016.0	+ ADD	0014.0
+ STA	0014.1	+ EXT	0017.0
+ STA	0015.1	+ DIS	0004.0
+ CLA	0014.0	+ HTR	0004.0
+ CLA	0000.0	- CLA	0001.0
+ CLA	0000.0	- CLA	7777.0

0020.0

+ CLA	0000.0	- CLA	0023.1
- CLA	0000.0	- CLA	0002.0
+ STA	0015.1	+ DIS	2117.0
+ FCA	0020.0	+ XAR	0002.0
+ FNM	0000.0	+ FST	7760.0
+ FCA	0026.0	+ CLA	0022.0
+ FAD	7760.0	+ TRA	0004.1
+ CLA	0000.0	- CLA	0000.0