

RECOMP II USERS' PROGRAM NO. 1154

PROGRAM TITLE: MIXED NUMBER INPUT

PROGRAM CLASSIFICATION:

AUTHORS: Douglas Adams
R. Doyle

PURPOSE: Facilitates entry of numerical data.
Numbers are entered in Mixed Number
format and converted to floating
point binary format for program use.

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

DISCLAIMER

Although this program is intended for use as a reference
program, it is not intended to be used as a substitute for
the user's own program. The user is responsible for
the proper use of the program. The user is not
warranted by the use of the program.

PROGRAM TITLE: MIXED NUMBER INPUT

PURPOSE

Facilitates entry of numerical data. Numbers are entered in Mixed Number format and converted to floating point binary format for program use.

DESCRIPTION

User specifies desired location for numbers. Numbers are entered in Mixed Number format. Integral part is normalized, and added, floating point, to fractional part. The resulting normalized floating point binary number is stored in specified location. For sequentially located numbers, it is only necessary to specify initial location.

USAGE

Set location to 0004.0. Depress Start One. Clear Display. Key in desired location for number but do not enter. Depress Start. Computer will halt at location 0021.0. Right half address field of displayed command indicates location where number will be stored.

Clear display and enter number in Mixed Number format (RECOMP II Operating Manual, page 39). Specifically, depress N, + or -, integral part, decimal point, fractional part, Enter, Start. The number that has been entered will be converted to floating point binary form and stored in location specified. This location will be increased by two and the computer will halt at location 0021.0 ready to accept the next number. As before, the display will indicate the location where the next number will be stored. The user may continue to enter sequentially located numbers in this manner.

In the event some different storage location is required, depress Start Two. The computer will halt at location 0004.0 and the new location may be keyed in as described above.

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