RECOMP II USERS' PROGRAM NO. 1084

PROGRAM TITLE:FIXED POINT OUTPUT SUBROUTINE (RELOCATABLE)PROGRAM CLASSIFICATION:SubroutineAUTHOR:G. V. Roberts
AutoneticsPURPOSE:To output, in fixed point format, normalized

floating point numbers located in memory.

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FIXED POINT OUTPUT SUBROUTINE (RELOCATABLE)

I. PURPOSE

To output, in fixed point format, normalized floating point numbers located in memory.

II. METHOD

The argument is converted to BCD and then typed out. A minus sign is typed for negative numbers; a space is typed for positive numbers.

III. USAGE

3.1 The calling sequence is as follows:

 $\begin{array}{c|c} & TRA & \mathcal{B} \\ pzE & L(N) \\ pzE & X \\ \hline pzE & Y \\ \hline a+2 & Normal return \end{array}$

where β is the location of the first word of the subroutine, L(N) is the location of the first value, X is the number of values, and Y is the number of values to be typed per line before carriage return. X and Y must be at a binary scale of 18 and 38, respectively.

3.2 To relocate this subroutine, set L7730. Enter the new location in the address portion of the second half, i.e., +0000000 -00XXX00; press "start".

3.3 Including sign and decimal point, each word requires twelve digits, followed by four spaces. The total number of digits typed is ten (see sample typeout).

IV. TIMING

Approximately 3 seconds are required for each value, including computations and typeout.

V. RESTRICTIONS

5.1 The value to be typed out must be less than 10^7 .

5.2 When relocating this subroutine, the last two digits of the new location must end in zero (see 3.2).

126.7199999 -0.0499999999 -1.255549999 6792000.000 RUG: 1084 2.221999999 0.000000000 0.00000000 1.111000000 -123.6488999 16.91999999 -312940.0999 -19.990999999 -4000.000000 2000.000000 -3000.000000 -5000.000000

145.000000 -0.02000000 3.345600000 -000.000000 -6000.220999

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