RECOMP II USERS' PROGRAM NO. 1098

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| PROGRAM TITLE: | AGC-209 Baudot to Decimal Conversion (Floating or Fixed Point) |
| PROGRAM CLASSIFICATION: | Subroutines |
| AUTHOR: | Mrs. Marcella J. Wulff<br>Aerojet-General Corporation<br>Sacramento, California |
| PURPOSE: | A 5 binary bit baudot code at a scale of 38 is converted to a fixed point number, also at a scale of 38, or to a floating point number. |
| DATE: | 1 September 1961 |

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TITLE: AGC-209 Baudot to Decimal Conversion Subroutine (Floating or Fixed Point)

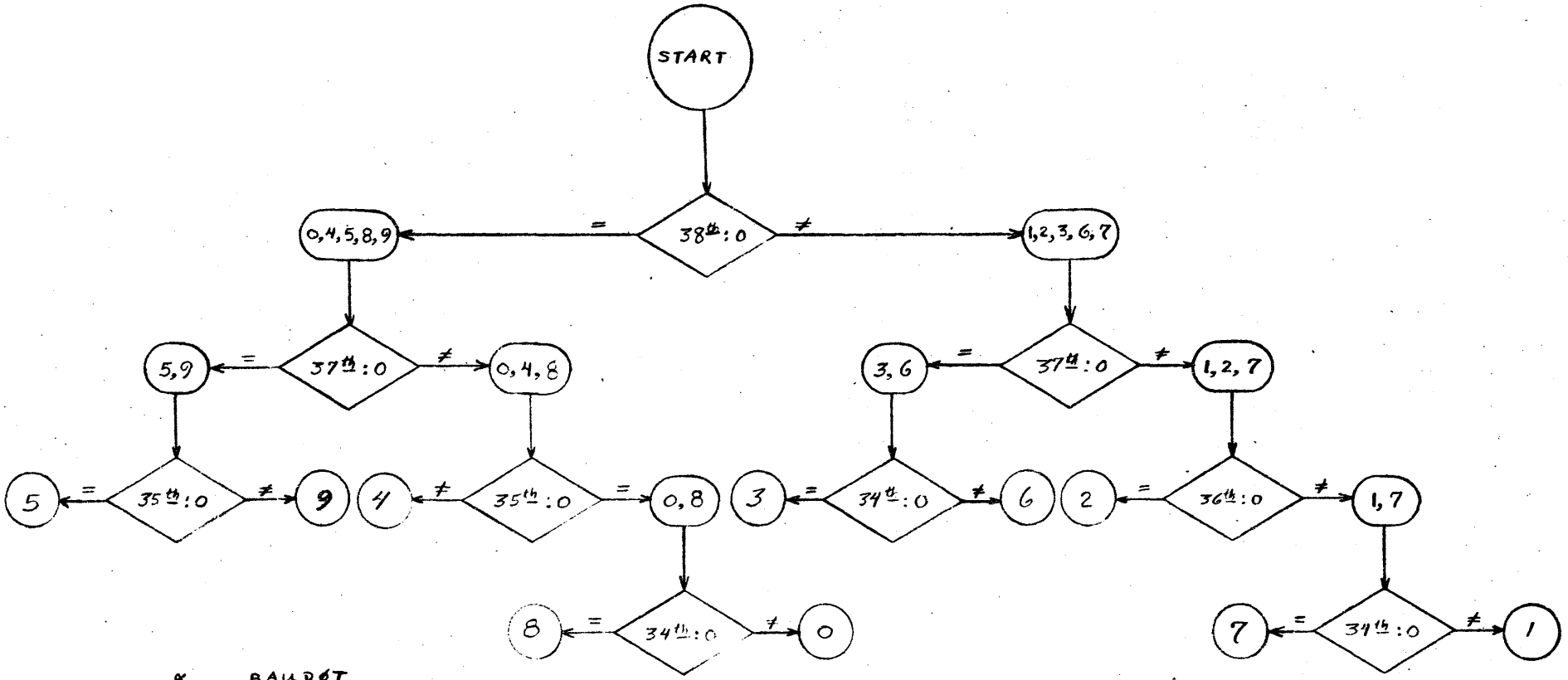
LOCATIONS USED: 7000 - 7075

INTRODUCTION: Have the 5 binary bit baudot code at a scale of 38 in the A register. The sign of the A register and its remaining contents are immaterial. Transfer to the proper location for the decimal format desired. If floating point format is required, the results will be in the A and R registers. If fixed point format is required, the results will be in the A register. There is no error return. In case some character other than a number were tested, the result would still be a number, as only 3 or 4 of the 5 bits are tested.

METHOD: Up to 4 bits are tested. The corresponding unnormalized floating point number is brought into the A and R registers. If fixed point format is requested, the A register contains the number at binary 38. If floating point format is requested, the number is normalized.

USAGE: Calling sequence:

| Floating Sequence | Fixed Point |
|---|---|
| SLL or SLR | SLL or SLR |
| CLA Baudot @ 38 | CLA Baudot @ 38 |
| TRA 70000 | TRA 70030 |
| RET Decimal in A & R | RET Decimal in A @ 38 |




| NUMBER | BAUDOT | | | | |
|---|---|---|---|---|---|
| | 34th | 35th | 36th | 37th | 38th |
| 0 | 1 | 0 | 1 | 1 | 0 |
| 1 | 1 | 0 | 1 | 1 | 1 |
| 2 | 1 | 0 | 0 | 1 | 1 |
| 3 | 0 | 0 | 0 | 0 | 1 |
| 4 | 0 | 1 | 0 | 1 | 0 |
| 5 | 1 | 0 | 0 | 0 | 0 |
| 6 | 1 | 0 | 1 | 0 | 1 |
| 7 | 0 | 0 | 1 | 1 | 1 |
| 8 | 0 | 0 | 1 | 1 | 0 |
| 9 | 1 | 1 | 0 | 0 | 0 |

```
L70000  C+1570420+0170430 +4270071+0070440 +4270061+5770041 +1570420+0170430
L70040  C+4270061+6470100 +6670200+5777600 +4000000+5700000 +4500000+5700000
L70100  C+0070420+3370450 +5077701+0070420 +3370460+5077661 +0070420+3370470
L70140  C+5070320+0070420 +3370510+5070370 +5770310+0070420 +3370510+5070330
L70200  C+5770360+0070420 +3370460+5077760 +0070420+3370500 +5077740+5770340
L70240  C+0070420+3370510 +5070400+5770300 +0070420+3370500 +5070350+5770410
L70300  C+3070520+5770061 +3070540+5770061 +3070560+5770061 +3070600+5770061
L70340  C+3070620+5770061 +3070640+5770061 +3070660+5770061 +3070700+5770061
L70400  C+3070720+5770061 +3070740+5770061 +0000000-0000000 +0000000-0000001
L70440  C+0000000-0070070 +0000000-0000010 +0000000-0000020 +0000000-0000040
L70500  C+0000000-0000100 +0000000-0000200 +0000000-0000000 +0000000-0000230
L70540  C+0000000-0000010 +0000000-0000230 +0000000-0000020 +0000000-0000230
L70600  C+0000000-0000030 +0000000-0000230 +0000000-0000040 +0000000-0000230
L70640  C+0000000-0000050 +0000000-0000230 +0000000-0000060 +0000000-0000230
L70700  C+0000000-0000070 +0000000-0000230 +0000000-0000100 +0000000-0000230
L70740  C+0000000-0000110 +0000000-0000230 H
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