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IDENTIFICATION

Sense Switch One Interrupter-MU SAVE
704 FORTRAN Program
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PURPOSE

To interrupt operation of a main program if sense switch one is up, by dumping the contents of core memory on tape drive 1 and providing for later continuation of the program via the LOAD TAPE button.

METHOD

Sense switch one is interrogated. If down, control is returned to the main program. If up, machine registers and the status of condition lights are saved internal to SAVE. Tape No. 1 is rewound, a five word loader plus core locations 6 through 8191 are written as one record, and tape No. 1 is rewound. A halt (HPR 0) occurs. If the LOAD TAPE key is pressed, core locations 6-8191, the machine registers, and condition lights are restored. Control is then returned to the main program at the point of interruption.

USAGE

SAVE is available on the FORTRAN system tape at this installation. It is assembled with a FORTRAN program by means of the statement

CALL SAVE

CODING INFORMATION

SAVE requires 91 words storage space.

```
MUSAVE REM 0094 12159                                                   SAVE  0001
       REM MU SAVE - MURA SENSE SWITCH ONE INTERRUPTER                  SAVE  0002
 SAVE  SWT 1                                                            SAVE  0003
       TXI *+2,0,**                                                     SAVE  0004
       TRA 1,4                                                          SAVE  0005
       REW 1                                                            SAVE  0006
       SXD SAVE+1,1                                                     SAVE  0007
       SXD SAVE+48,2                                                    SAVE  0008
       SXD SAVE+53,4                                                    SAVE  0009
       STO SAVE+81                                                      SAVE  0010
       ARS 35                                                           SAVE  0011
       STO SAVE+82                                                      SAVE  0012
       STQ SAVE+83                                                      SAVE  0013
       LXA SAVE+52,1                                                    SAVE  0014
       SLT 1                                                            SAVE  0015
       TXI *+1,1,1                                                      SAVE  0016
       SLT 2                                                            SAVE  0017
       TXI *+1,1,2                                                      SAVE  0018
       SLT 3                                                            SAVE  0019
       TXI *+1,1,4                                                      SAVE  0020
       SLT 4                                                            SAVE  0021
       TXI *+1,1,8                                                      SAVE  0022
       SXD SAVE+84,1                                                    SAVE  0023
       CLA SAVE+37                                                      SAVE  0024
       RTT                                                              SAVE  0025
       CLA SAVE+85                                                      SAVE  0026
       STO SAVE+44                                                      SAVE  0027
       DCT                                                              SAVE  0028
       ARS 2                                                            SAVE  0029
       ALS 1                                                            SAVE  0030
       STO SAVE+86                                                      SAVE  0031
       CLA SAVE+87                                                      SAVE  0032
       TOV *+2                                                          SAVE  0033
       CLA SAVE+88                                                      SAVE  0034
       STO SAVE+65                                                      SAVE  0035
       CLA SAVE+89                                                      SAVE  0036
       TQO *+2                                                          SAVE  0037
       PXD 8187,0                                                       SAVE  0038
       STO SAVE+90                                                      SAVE  0039
       WTB 1                                                            SAVE  0040
       LXA SAVE+64,1                                                    SAVE  0041
       CPY SAVE+54,1                                                    SAVE  0042
       TIX *-1,1,1                                                      SAVE  0043
       LXA SAVE+53,1                                                    SAVE  0044
       CPY 0,1                                                          SAVE  0045
       TIX *-1,1,1                                                      SAVE  0046
       HTR **                                                           SAVE  0047
       CPY 0                                                            SAVE  0048
       REW 1                                                            SAVE  0049
       HPR                                                              SAVE  0050
       TXI SAVE+54,0,**                                                 SAVE  0051
       LXA 0,4                                                          SAVE  0052
       CPY 2,4                                                          SAVE  0053
       TXI 1,4,-1                                                       SAVE  0054
       HTR 1                                                            SAVE  0055
       TXI SAVE+54,0,**                                                 SAVE  0056
       RTB 1                                                            SAVE  0057
       CPY 0                                                            SAVE  0058
       CLA SAVE+44                                                      SAVE  0059
       DVP SAVE+86                                                      SAVE  0060
       CLA SAVE+90                                                      SAVE  0061
```

```
FAD  SAVE+90                                    SAVE  0062
CLA  *                                          SAVE  0063
ALS  35                                         SAVE  0064
CLA  SAVE+82                                    SAVE  0065
ALS  35                                         SAVE  0066
ADD  SAVE+81                                    SAVE  0067
HTR  **                                         SAVE  0068
LDQ  SAVE+83                                    SAVE  0069
LXD  SAVE+84,1                                  SAVE  0070
SLF                                             SAVE  0071
TIX  *+2,1,8                                    SAVE  0072
SLN  4                                          SAVE  0073
TIX  *+2,1,4                                    SAVE  0074
SLN  3                                          SAVE  0075
TIX  *+2,1,2                                    SAVE  0076
SLN  2                                          SAVE  0077
TIX  *+2,1,1                                    SAVE  0078
SLN  1                                          SAVE  0079
LXD  SAVE+1,1                                   SAVE  0080
LXD  SAVE+48,2                                  SAVE  0081
LXD  SAVE+53,4                                  SAVE  0082
TRA  1,4                                        SAVE  0083
HTR  **                                         SAVE  0084
HTR  **                                         SAVE  0085
HTR  **                                         SAVE  0086
HTR  5,0,**                                     SAVE  0087
WTD  1                                          SAVE  0088
HTR  **                                         SAVE  0089
NOP                                             SAVE  0090
TOV  SAVE+66                                    SAVE  0091
OCT  010400000000                               SAVE  0092
HTR  **                                         SAVE  0093
END                                             SAVE  0094
```