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;
RCSL: 44 - RT 700
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;
LINEPRINTER
EXERCISER
PROGRAM

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;
BINARY TAPE: RCSL: 44 - RT 701
ASCII TAPE: RCSL: 44 - RT 699

; KEYWORDS: , RC 3600, LINEPRINTER.

; ABSTRACT

; THIS IS A SIMPLE LINEPRINTER EXERCISER PROGRAM
;
; USABLE FOR ANY ASCII COMPATIBLE
; LINEPRINTER CONTROLLER

; OPERATING PROCEDURE

; LOAD THE PROGRAM VIA THE BINARY LOADER.
; WHEN THE PROGRAM HALTS, SET SWITCHES:

; SWITCHES 0 - 7 = NUMBER OF DIFFERENT CHARACTERS:
; 100 = 64. 110 = 96

; SWITCHES 8 - 15 = FIRST CHARACTER CODE

; PRESS CONTINUE

; THE PROGRAM WILL RUN UNTIL MANUALLY STOPPED.
; RESTARTING ADDRESS: 000002

; THE ADDRESS 104 CONTAINS THE NUMBER OF COLUMNS
; INITIALLY 80.
; THE ADDRESS 107 CONTAINS THE PRINT COMMAND,
; INITIALLY CR=<15>. ELSE <2000>

; THE ADDRESS 110 CONTAINS THE PAPER COMMAND,
; INITIALLY LF=<12>. ELSE FORM FEED, (SKIP
; TO CHANNEL 1)=FF=<14>.
; SKIP TO CHANNEL XX=<24XX>.
; SPACE XX LINES =<25XX>. (4 BIT LINECOUNTER)

; THE STATUS ARE READ AFTER EVERY PRINT COMMAND.
; WHEN AN ERROR IS DETECTED, THE PROGRAM WILL STOP.
; EXAMIN THEN AC 0 FOR THE STATUS.

BIT	STATUS
0	PAPER FAULT
1	NOT READY
3	CARRIAGE OVERFLOW
8	OFF LINE
9	DISCONNECTED
11	END OF PAPER
15	NOT AVAILABLE

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000002      000002      .LOC      2
00002 063077 .STRT:  HALT          ; SET SWITCHES & CONTINUE
00003 060477      READS      0
00004 024114      LDA        1,MAL
00005 107700      ANDS       0,1
00006 044105      STA        1,SUBSE
00007 024115      LDA        1,MAR
00010 107400      AND        0,1
00011 044106      STA        1,STCHA
00012 020120      LDA        0,SENSE
00013 000040      JMP        BEGIN ; GET ACTION !

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000040      000040      .LOC      40
00040 061117 BEGIN:  DOAS       0,LPT
00041 030107      LDA        2,PRINT
00042 034110      LDA        3,SPACE
00043 020104      LDA        0,BFSIZ
00044 040112      STA        0,COLUM
00045 020105 LOAD:   LDA        0,SUBSE
00046 040111      STA        0,CHCNT
00047 024106      LDA        1,STCHA
00050 000052      JMP        .+2
00051 125400 LOOP1:  INC        1,1 ; INCREASE CHAR. VALUE
00052 063517      SKPBZ      LPT
00053 000052      JMP        .-1
00054 044117      STA        1,SAVE
00055 060417      DIA        0,LPT ; READ STATUS
00056 024116      LDA        1,MASK
00057 107414      AND#       0,1,SZR
00060 063077      HALT          ; STATUS ERROR
00061 024117      LDA        1,SAVE
00062 065117      DOAS       1,LPT ; CHAR. TO LPT BUFFER
00063 014112      DSZ        COLUM ; COLUMN COUNT DOWN
00064 000066      JMP        .+2
00065 000071      JMP        LOOP2
00066 014111      DSZ        CHCNT ; CHARACTER COUNT DOWN
00067 000051      JMP        LOOP1
00070 000045      JMP        LOAD
00071 020104 LOOP2:  LDA        0,BFSIZ
00072 040112      STA        0,COLUM
00073 063517      SKPBZ      LPT
00074 000073      JMP        .-1
00075 071117      DOAS       2,LPT ; PERFORM THE PRINT
00076 063617      SKPDN      LPT
00077 000076      JMP        .-1
00100 075117      DOAS       3,LPT ; DO THE PAPER COMMAND
00101 014111      DSZ        CHCNT
00102 000051      JMP        LOOP1
00103 000045      JMP        LOAD

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00104 000120 BFSIZ: 120 ; ALTER TO 204 FOR 132 COLUMNS
00105 000000 SUBSE: 0 ; NUMBER OF DIFF. CHARS
00106 000000 STCHA: 0 ; FIRST AND / OR ONLY CHAR.

00107 000015 PRINT: 15 ; PRINTCOMMAND
00110 000012 SPACE: 12 ; PAPERCOMMAND

00111 000000 CHCNT: 0
00112 000000 COLUM: 0
00113 000000 SWITC: 0
00114 077400 MAL: 077400
00115 000377 MAR: 000377
00116 150321 MASK: 150321
00117 000000 SAVE: 0
00120 000400 SENSE: 400

000002 .END .STRT

BEGIN	000040
BFSIZ	000104
CHCNT	000111
COLUM	000112
LOAD	000045
LOOP1	000051
LOOP2	000071
MAL	000114
MAR	000115
MASK	000116
PRINT	000107
SAVE	000117
SENSE	000120
SPACE	000110
STCHA	000106
SUBSE	000105
SWITC	000113
.STRT	000002