
Title:

RC 36-00164.03
PRINTER RELIABILITY
OPERATING INSTRUCTION

 **REGNECENTRALEN**

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RCSL No: 44-RT 1639
Edition: 77.03.09.
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Keywords:

Musil, Device Reliability, Line Printer, Test

Abstract:

The following pages present the first, general pages of the reliability program listing.

These pages form an operating guide to the program

LOAD

After autoloading of

RC 3600 SYSTEM MAINTENANCE

Tape/Disc, or while running RC 3600 MUS/DOMUS software (only for RC 3600 systems), this device reliability program can be loaded and executed the following way:

After contact with operative system = S
(refer to previous chapters or the system
operating guide) type:

LOAD TIME < 1 > < 2 > P164

RETURN

1: LPT = Line Printer	2: Empty = ASCII
CPT = Charaband Printer	TAB1 = ASCII
CPT1 = Charaband Printer second	TAB2 = RC Standard
SP = Serial Printer	TAB3 = PL 1
SP1 = Serial Printer second	TAB4 = Hungarian
SP2 = Serial Printer third	TAB5 = Cyrillic

0065 1
0066 RC36-00164 PAGE 01
0067 TITLE: PRINTER RELIABILITY PROGRAM
0068
0069 ABSTRACT: THIS PROGRAM TESTS PRINTERS, (LINE PRINTERS,
0070 CHARABAND PRINTERS AND SERIAL PRINTERS).
0071 OUTPUT IS STANDARD ASCII, BUT IT IS
0072 POSSIBLE TO CHANGE THIS BY LOADING
0073 A CONVERSIONTABLE (NAME: CLTAB).
0074
0075
0076 SIZE: 10176 BYTES
0077
0078 DATE: 77.03.03.
0079
0080
0081 SPECIAL REQUIREMENTS:
0082 (AT COMPILE-TIME)
0083
0084 CODEPROCEDURE TIME (P0001) RCSL: 43-GL182
0085 CODEPROCEDURE DATE (P0003) RCSL: 43-GL190
0086 CODEPROCEDURE DELAY (P0023) RCSL: 43-GL1409
0087 CODEPROCEDURE CHANGETABLE RCSL: 43-GL1519
0088 1
0089

0090 !
0091
0092 GENERAL INFORMATION:
0093
0094 THIS PROGRAM ACTS IN THE FOLLOWING WAY:
0095 AFTER ALL PARAMETERS HAS BEEN INITIALIZED AND A START
0096 COMMAND HAS BEEN GIVEN, THE PRINTER IS STARTED AND TESTOUTPUT IS
0097 PRINTED (DETAILED SPECIFICATION OF OUTPUT SEE SPECIFICATION ON PAGE
0098 05-08). IF ERRORS OCCURS THE ERRORS ARE ACCUMOLATED. WHEN THE PROGRAM
0099 HAS BEEN RUNNING FOR THE SPECIFIED TIME OR A HARD ERROR
0100 OCCURS, THE PROGRAM IS STOPPED AND A STATISTIC IS LOGGED
0101 ON THE SELECTED LOG-DEVICE.
0102
0103
0104 DRIVERS FOR PROGRAM:
0105
0106 INTERPRETER, DRIVER FOR THE SELECTED LOG-DEVICE,
0107 THE PROGRAM TIME.
0108
0109 DEPENDING ON THE PRINTER:
0110
0111 LINE PRINTER: LATEST VERSION OF LINEPRINTERDRIVER (LP009)
0112
0113 SERIAL PRINTER: LATEST VERSION OF SERIALPRINTERDRIVER (SP001)
0114
0115 CHARABAND PRINTER: LATEST VERSION OF CHARABANDPRINTER-
0116 DRIVER (CP002)
0117
0118 CONVERSION TABLES:
0119
0120 ASCII DRUM: LATEST VERSION OF RC36-00222
0121 RC-STANDARD DRUM: LATEST VERSION OF RC36-00218
0122 PL1 DRUM: LATEST VERSION OF RC36-00219
0123 HUNGARIAN DRUM: LATEST VERSION OF RC36-00220
0124 CYRILLIC DRUM: LATEST VERSION OF RC36-00400
0125 !
0126

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0127 1
0128
0129 ROUTINE PARAMETERS:
0130
0131     OUTPUT DEVICE, (LPT), (CPT), (SP)
0132
0133         TYPE THE DRIVER NAME FOR THE DEVICE
0134         THAT IS GOING TO BE TESTED.
0135
0136     OUTPUT LOGDEVICE, (TTY), (LPT), (CPT), (SP)
0137
0138         TYPE DEVICE WHERE STATISTICS ARE GOING
0139         TO BE LOGGED.
0140
0141         TTY = TELETYPE
0142         LPT = LINEPRINTER
0143         CPT = CHARABAND PRINTER
0144         SP = SERIAL PRINTER.
0145
0146     TESTPERIOD, (HOURS MINUTES)
0147
0148         EFFECTIVE TIME THE TEST SHOULD RUN.
0149         (TO MAKE IT RUN ONCE WRITE (0.0)).
0150
0151     STOP ON ERROR (YES) OR WAIT UNTIL STATISTIC (NO)
0152
0153         IF ANSWER = YES THEN TEST WILL STOP
0154         ON THE FIRST OCCURED ERROR.
0155
0156         IF ANSWER = NO THEN TEST WILL STOP
0157         WHEN RUNTIME IS REACHED OR HARD ERROR OCCURS
0158
0159     PRINTPOSITIONS, (132), (136)
0160
0161         NUMBER OF CHARACTERS/LINE.
0162
0163     NR. OF CHARACTERS
0164
0165         NUMBER OF CHARACTERS IN CHARACTERSET.
0166         (MAX 246).
0167
0168     TO SEE THE COMMANDS TYPE HELP ELSE NL
0169
0170         IF ANSWER = HELP THEN ALL POSSIBLE COMMANDS
0171         AND THE MEANING OF THEM WILL BE DISPLAYED.
0172
0173
0174 INPUT MESSAGES:
0175
0176     START :      STARTS EXECUTION WRITING:
0177                EXECUTION STARTED HH.MM.SS
0178
0179     STOP  :      STOPS EXECUTION WRITTING:
0180                EXECUTION STOPPED HH.MM.SS
0181
0182     CONT  :      EXECUTION IS CONTINUED WITHOUT
0183                CHANGING STATUS, WRITTING:
0184                EXECUTION CONTINUED HH.MM.SS
0185
0186     INIT  :      DISPLAY RUNTIME PARAMETRES.
0187
0188     FF    :      OUTPUTS A TOP OF FORM.
0189 1
0190
```

0191 1
0192
0193 OUTPUT MESSAGES:
0194
0195 EXECUTION STARTED HH.MM.SS
0196
0197 WRITTEN AS ACCEPT OF COMMAND START.
0198
0199 EXECUTION STOPPED HH.MM.SS
0200
0201 WRITTEN AS ACCEPT OF COMMAND STOP.
0202
0203 EXECUTION CONTINUED HH.MM.SS
0204
0205 WRITTEN AS ACCEPT OF COMMAND CONT.
0206
0207 LOG DEVICE ERROR NNNNN
0208
0209 CONSULT THE RC3600 OPERATING GUIDE
0210
0211 TEST STATISTIC AND ERROR STATISTIC
0212
0213 USER INFORMATION TO SEE THE RESULT OF
0214 THE TEST. (SEE BELOW)
0215
0216
0217 TEST STATISTIC AND ERROR STATISTIC:
0218
0219 THE TEST STATISTIC AND ERROR STATISTIC IS LOGGED ON THE SELECTED
0220 LOG-DEVICE. WHEN THE TEST HAS BEEN RUNNING FOR THE SPECIFIED
0221 TIME OR WHEN THE COMMAND STOP IS GIVEN.
0222 THE TEST STATISTIC SHOWS THE TIME FOR START AND STOP OF THE
0223 TEST. AND THE EFFECTIVE RUN-TIME, FURTHERMORE IT
0224 SHOWS NUMBER OF CHARACTERS WRITTEN ON THE PRINTER.
0225
0226 THE ERROR STATISTIC SHOWS THE STATUS-ERROR THAT HAVE OCCURRED.
0227
0228 ERROR NN: NNNNN EXPLANATION.
0229 NN IS THE ERRORNUMBER
0230 NNNNN IS THE NUMBER OF TIMES THE ERROR OCCURED.
0231 EXPLANATION IS AN EXPLANATION OF THE STATUSERROR.
0232
0233 NOTE:
0234
0235 ERROR 23 : NNNNN CHANNEL 12 IN CARRIAGE TAPE HAS BEEN ENCOUNTECED.
0236
0237 IS NOT AN ERROR, BUT NNNNN SHOWS HOW MANY PAGES OF
0238 TESTOUTPUT THAT HAS BEEN PRINTED.
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0247 SPECIFICATION:

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NOTE: THE PROGRAM TIME (RCSL: 43-GL179) MUST BE IN MEMORY.
A CARRIAGE CONTROL TAPE (RCSL: 44-RT754) MUST BE
MOUNTED IN THE PRINTER, SAY A 12 CHANNEL TAPE
FOR 72 LINES WITH THE FOLLOWING HOLES.

CHANNEL	1	LINE	3
	2		9
	3		15
	4		21
	5		27
	6		33
	7		39
	8		45
	9		51
	10		57
	11		63
	12		69

IN THE FOLLOWING
L = NUMBER OF PRINTPOSITIONS,
N = NUMBER OF CHARACTERS IN CHARACTERSET.
BOTH L AND N ARE SELECTED DURING INITIALIZATION.

1) THE RELIABILITY PROGRAM STARTS BY PRINTING:
'PRINTER RELIABILITY <DATE> <TIME>'
AFTER THIS, 2 LINES TO SHOW THE PRINTPOSITIONS:

....I....I....I....I....I....
1 5 10 15 20 25

THE I IS THE EXACT PRINTPOSITION THAT THE NUMBER
BELOW REFERS TO.

NOTE: NOW THE PRINTER WILL BE HANDLED IN CHARACTER-MODE.
IT MEANS THAT THE ASCII CHARACTERS
LF (OCTAL VALUE = 12)
FF (OCTAL VALUE = 14)
CR (OCTAL VALUE = 15)
IS USED AS CONTROL CHARACTERS IN STEAD OF A CCM.

2) 50 LINES OF THE LENGTH L IS PRINTED WITH THE CHARACTERS:
8'107,8'70,8'107,8'70 (ALL BITS ARE COMPLEMENTED)
EACH LINE STARTS WITH A LINEFEED.
THE LAST LINE ON THIS PAGE IS
'<LF>TEXT<CR>TEXT<FF>'
(TEXT = THIS LINE IS PRINTED TWICE (OVER-PRINT)),
THIS CAUSES THAT TEXT IS PRINTED TWICE IN THE SAME
POSITION AND IMMEDIATLY AFTER A TOP OF FORM IS
PERFORMED.

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- NOTE: NOW THE MODE IS CHANGED TO USE CCW.
THE EXERCISER IS HANDLING THE PRINTER IN
THIS MODE FOR THE REST OF THE TESTS.
- FROM PARAGRAPH 3) TO 12) EACH OF THEM IS
TERMINATED BY A TOP OF FORM, AND EACH LINE
IS STARTED WITH SPACE 1 LINE BEFORE PRINT.
- 3) 30 LINES ARE PRINTED, AND EACH LINE CONTAINS
THE WHOLE CHARACTERSET STARTING WITH 8'37 (SPACE)
AND ENDING WITH 8'37+N. IF CHARACTERSET IS TOO
LONG FOR 1 LINE IT IS DEVIDED INTO 2 LINES.
BETWEEN ALL 30 LINES A SPACE 1 LINE IMMEDIATE
IS EXECUTED.
- 4) SAME AS 3), BUT THES TIME 60 LINES AND NO SPACE
1 LINE IMMEDIATE BETWEEN THE LINES.
- 5) THIS LINE IS AGAIN PRINTED 30 TIMES, BUT NOW
WITH A SPACE BETWEEN EACH CHARACTER. EVERY
SECOND LINE IS MOVED ONE PRINTPOSITION TO THE
RIGHT BY PUTTING A SPACE IN FRONT OF IT. IF THE LINE
IS LONGER THAN L CHARACTERS IT WILL BE CUT DOWN.
- 6) ONE LINE WITH EACH CHARACTER IS PRINTED.
(STARTING WITH 8'40 AND ENDING WITH 8'37+N).
- 7) NOW THE CONVERSION TABLE WILL BE USED (IF IT IS
LOADED). IT MEANS THAT THE VALUES MENTIONED BELLOW
ARE THOSE WHICH IS GIVEN TO THE DRIVER, BUT NEED
NOT TO BE THOSE GIVEN TO PRINTER.
N LINES OF THE LENGTH L IS PRINTED. THE LINES
ARE BUILD UP SO THAT ALL N CHARACTERS APPEARS
IN ALL L POSITIONS.
- 8'40,8'40+1,8'40+2....8'40+N-1,8'40,8'40+1.....
8'40+1,8'40+2,8'40+3.....
8'40+2,8'40+3,8'40+4.....
.....
.....
.....
8'40+N-1,8'40,8'40+1.....
- 8) NOW THE FOLLOWING LINES ARE REPEATED 10 TIMES.
- LINE1: 'A' 24 TIMES.
LINE2: 'A' 24 TIMES.
LINE3: 'A' 72 TIMES.
LINE4: 'A' TIMES.
LINES: '120' TIMES.
LINE6: 'A' L TIMES.
- 9) L LINES WITH THE CHARACTER 'H' IS PRINTED
- THE 1. OF THE LENGTH L,
THE 2. OF THE LENGTH L-1,
THE 3. OF THE LENGTH L-2,
.
.
THE L. OF THE LENGTH L-(L-1).

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10) L LINES WITH THE CHARACTER 'E' IS PRINTED.

THE 1. LINE: 0 SPACE L 'E'

THE 2. LINE: 1 SPACE L-1 'E'

THE 3. LINE: 2 SPACE L-2 'E'

.

.

THE L. LINE: L-1 SPACE 1 'E'

THE SPACES ARE PRINTED BY USING THE SETPOSITION COMMAND: SETPOSITION(ZONE,FILE,BLOCK), WHERE THE PRINTER-DRIVER AUTOMATICLY OUTPUTS 'FILE' SPACES IN FRONT OF THE LINE.

11) 60 LINES OF THE LENGTH L IS PRINTED WITH THE CHARACTER 'H'.

12) 60 LINES OF THE LENGTH L IS PRINTED WITH THE CHARACTER 'E'.

NOTE: NOW THE SKIP TO VFU-CHANNEL TEST IS STARTED, AND IT IS VERY IMPORTANT THAT THE CARRIAGE CONTROL TAPE (RCSL: 44-RT754) IS MOUNTED.

13) THE TEXT:
'THIS LINE IS PRINTED AFTER A SKIP TO VFU CHANNEL X'
MEANS THAT FIRST THE PAPER MOVEMENT IS EXECUTED,
AND THEN THE TEXT IS PRINTED.
THIS IS DONE TWICE FOR X = 1 TO 12.

14) THE TEXT:
'THIS LINE IS PRINTED BEFORE A SKIP TO VFU CHANNEL X'
MEANS THAT FIRST THE TEXT IS PRINTED, AND THEN THE
PAPER MOVEMENT IS EXECUTED.
THIS IS DONE TWICE FOR X = 1 TO 12.

15) NOW A SKIP TO VFU CHANNE 1 IS EXECUTED, AND THE TEXT
'THIS LINE IS PRINTED AFTER A SKIP TO VFU CAHNNEL 01'
IS PRINTED. THIS IS REPEATED 3 TIMES.

16) THE TEXT:
'THIS LINE IS PRINTED AFTER A SKIP OF X LINES'
MEANS THAT FIRST THE PAPER MOVEMENT IS EXECUTED
AND THEN THE TEXT IS PRINTED.
THIS IS DONE TWICE FOR X = 0 TO 15.

17) THE TEXT:
'THIS LINE IS PRINTED BEFORE A SKIP OF X LINES'
MEANS THAT FIRST THE TEXT IS PRINTED, AND THEN THE
PAPER MOVEMENT IS EXECUTED.
THIS IS DONE TWICE FOR X = 0 TO 15.

18) AT LAST THE TEXT: 'END OF RELIABILITY <DATE> <TIME>' IS PRINTED.
IF THE PRINTER HAS BEEN ACTIVE FOR THE TIME SPECIFIED DURING INITIALIZATION, STATISTICS ARE LOGGED, AND THE RELIABILITY PROGRAM IS STOPPED. IF NOT IT CONTINUES FROM 1). !