
Title:

RC36-00197.02

CARD READER RELIABILITY
OPERATING INSTRUCTION



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RCSL No:	44-RT 1640
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Abstract: This paper contains the operating instruction for the Card Reader Reliability Program.

This instruction must be used together with the RC3600 Operating Guide.

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> <3> P197

RETURN

1: CDR = Card Reader

EVENTUAL Log Device, - if not TTY:

2: LPT = Line Printer

CPT = Charaband Printer

SP = Serial Printer

3: Empty = ASCII

TAB1 = ASCII

TAB2 = RC Standard

TAB3 = PL 1

TAB4 = Hungarian

TAB5 = Cyrillic

0000

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0067 1

0068

0069 TITLE: CARD READER RELIABILITY PROGRAM

0070

0071 ABSTRACT: THIS PROGRAM TESTS CARD-READERS. THE PROGRAM

0072 CHECKS DATA FROM 2 CARD-DECKS.

0073 1 DECIMAL RCSL: 44-RT860 AND

0074 1 BINARY RCSL: 44-RT861

0075

0076

0077 SIZE: 8106 BYTES

0078

0079 DATE: 77.03.08

0080

0081

0082 SPECIAL REQUIREMENTS:

0083 (AT COMPILE-TIME)

0084

0085 CODEPROCEDURE P0001 (TIME) RCSI:43-GL182

0086 CODEPROCEDURE P0023 (DELAY) RCSI:43-GL1409

0087 CODEPROCEDURE P0060 (RANDOM) RCSI:43-GL2760

0088 CODEPROCEDURE CHANGETABLE RCSI:43-GL1519

0089

0090

0091 GENERAL INFORMATION:

0092

0093 THIS PROGRAM ACTS IN THE FOLLOWING WAY:

0094 AFTER ALL PARAMETERS HAS BEEN INITIALIZED AND A START COMMAND

0095 HAS BEEN GIVEN THE CARD-READER IS STARTED. DEPENDING ON THE

0096 SELECTED CARD-TYPE THE PROGRAM TESTS THE DATA FROM THE DECIMAL

0097 CARD-DECK RCSI: 44-RT860 OR THE BINARY CARD-DECK RCSI: 44-RT861.

0098 IF STATUS-ERROR OCCURS THEY ARE ACCUMULATED.

0099 IF DATA ERROR OCCURS THEY ARE LOGGED IMMEDIATELY. WHEN THE PROGRAM

0100 HAS BEEN RUNNING FOR THE SPECIFIED TIME OR A HARD ERROR OCCURS,

0101 THE PROGRAM IS STOPPED, AND A STATISTIC IS LOGGED ON THE SELECTED

0102 LOG-DEVICE.

0103

0104

0105 DRIVERS FOR THE PROGRAM:

0106

0107 INTERPRETER, DRIVER FOR THE SELECTED LOG-DEVICE.

0108 (CONVERSION-TABLE IF LOG DEVICE IS PRINTER), THE PROGRAM TIME

0109 AND LATEST VERSION OF THE CARD-READER-DRIVER (CR002).

0110 1

0111

```
0112 1
0113
0114 ROUTINE PARAMETERS:
0115
0116     INPUT DEVICE, (CDR), (CDR1)
0117
0118             TYPE THE DRIVER NAME FOR THE DEVICE THAT IS
0119             GOING TO BE TESTED.
0120
0121     OUTPUT LOGDEVICE, (TTY), (LPT), (CPT), (SP)
0122
0123             TYPE THE DEVICE WHERE STATISTICS ARE GOING
0124             TO BE LOGGED.
0125
0126             TTY = TELETYPE
0127             LPT = LINEPRINTER
0128             CPT = CHARAHAND PRINTER
0129             SP  = SERIAL PRINTER
0130
0131     TESTPERIOD, (HOURS, MINUTES)
0132
0133             EFFECTIVE TIME THE TEST SHOULD RUN.
0134
0135     STOP ON ERROR (YES) OR WAIT UNTIL STATISTIC (NO)
0136
0137             IF ANSWER = YES THEN TEST WILL STOP ON THE
0138             FIRST OCCURRED ERROR.
0139             IF ANSWER = NO THEN TEST WILL STOP WHEN
0140             RUNTIME IS REACHED OR HARD ERROR OCCURS.
0141
0142     DECIMAL CARDS (DEC), BINARY CARDS (BIN)
0143
0144             IF ANSWER = DEC THE CARD READER MUST BE LOADED
0145             WITH THE DECIMAL CARD-DECK RC SL: 44-RT860.
0146             IF ANSWER = BIN THE CARD READER MUST BE LOADED
0147             WITH THE BINARY CARD-DECK RC SL: 44-RT861.
0148
0149     TO SEE THE COMMANDS TYPE HELP ELSE NL.
0150
0151             IF ANSWER = HELP THEN ALL POSSIBLE COMMANDS
0152             AND THE MEANING OF THEM WILL BE DISPLAYED.
0153
0154
0155 INPUT MESSAGES:
0156
0157     START :     STARTS EXECUTION WRITING:
0158                EXECUTION STARTED HH.MM.SS
0159                AFTER LOG DEVICE ERROR START MEANS REPEAT THE LOG-OU
0160
0161     STOP  :     STOPS EXECUTION WRITING:
0162                EXECUTION STOPPED HH.MM.SS
0163                AFTER LOG DEVICE ERROR STOP MEANS SKIP THE
0164                LOG-OUTPUT.
0165
0166     CONT  :     EXECUTION IS CONTINUED WITHOUT CHANGING STATUS
0167                WRITING:
0168                EXECUTION CONTINUED HH.MM.SS
0169
0170     INIT  :     DISPLAY RUNTIME PARAMETERS.
0171 1
0172
0173
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0174 1
0175
0176 OUTPUT MESSAGES:
0177
0178 EXECUTION STARTED HH.MM.SS
0179
0180 WRITTEN AS ACCEPT OF COMMAND START.
0181
0182 EXECUTION STOPPED HH.MM.SS
0183
0184 WRITTEN AS ACCEPT OF COMMAND STOP.
0185
0186 EXECUTION CONTINUED HH.MM.SS
0187
0188 WRITTEN AS ACCEPT OF COMMAND CONT.
0189
0190 LOG DEVICE ERROR NNNNN
0191
0192 CONSULT THE RC3600 OPERATING GUIDE.
0193
0194 TEST STATISTIC AND ERROR STATISTIC
0195
0196 USER INFORMATION TO SEE THE RESULT OF THE
0197 TEST (SEE NEXT PAGE).
0198
0199 WHEN AN ERROR OCCURS THE FOLLOWING IS OUTPUT:
0200
0201 DECIMAL COL = XX GOOD = YYYYYY BAD = ZZZZZZ
0202 OR
0203 BINARY COL = XX GOOD = YYYYYY BAD = ZZZZZZ PARITY ERROR
0204
0205
0206 BINARY/DECIMAL DEPENDS ON THE SELECTED MODE.
0207
0208 XX IS THE COLUMN IN WHICH THE ERROR OCCURRED.
0209
0210 YYYYYY IS THE COUNTED VALUE (OCTAL) WHICH SHOULD
0211 BE EQUAL TO THE READ VALUE. IF IT IS
0212 UNKNOWN THIS IS WRITTEN.
0213
0214 ZZZZZZ IS THE VALUE (OCTAL) THE CARD READER
0215 HAS TRANSFERRED TO THE PROGRAM.
0216
0217 PARITY ERROR ONLY IN BINARY MODE IF A COLUMN CONTENTS
0218 OF AN EVEN NUMBER OF BITS.
0219
0220 IF 3 ERRORS HAVE OCCURRED IN ONE CARD THE TEXT "BAD CARD" IS
0221 LOGGED AFTER THE LAST ERROR AND THE REST OF THE CARD IS SKIPPED.
0222
0223 NOTE: IF 3 OR MORE ERRORS OCCURS IN THE FIRST 4 COLUMNS
0224 OF A BINARY CARD, THE EXERCISER WILL LOG THE FIRST 3 COLUMNS
0225 WITH GOOD VALUE "UNKNOWN" AND BAD VALUE = READ VALUE, AND LAST
0226 "BAD CARD".
0227
0228 IN DECIMAL MODE THE EXERCISER SHIFTS BETWEEN 2 MODES
0229 21) READ DECIMAL PUNCHED CARDS.
0230 33) READ DECIMAL PUNCHED CARDS AND SKIP OF TRAILING BLANK COLUMNS.
0231
0232 WHEN MODE = 21 ALL 80 COLUMNS ARE CHECKED.
0233 WHEN MODE = 33 ONLY THE FIRST 64 COLUMNS ARE CHECKED, BUT IT IS ALSO
0234 CHECKED THAT 64 COLUMNS WERE TRANSFERED. IF NOT, THE TEXT:
0235 "MORE THAN 64 COLUMNS TRANSFERED WHEN SKIP OF TRAILING BLANKS"
0236 OR
0237 "LESS THAN 64 COLUMNS TRANSFERED WHEN SKIP OF TRAILING BLANKS"
0238 IS LOGGED.
0239 IF MORE THAN 64 COLUMNS WERE TRANSFERED ONLY THE 64 FIRST WILL
0240 BE CHECKED.
0241 1
0242

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0243 !

0244

0245 TEST STATISTIC AND ERROR STATISTIC:

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0263 !

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THE TEST STATISTIC AND ERROR STATISTIC IS LOGGED
ON THE SELECTED LOG-DEVICE WHEN THE TEST HAS BEEN
RUNNING FOR THE SPECIFIED TIME OR WHEN THE COMMAND
STOP IS GIVEN.

THE TEST STATISTIC SHOWS THE TIME FOR START, STOP
AND THE EFFECTIVE RUN-TIME. FURTHERMORE IT SHOWS
NUMBER OF CARDS READ AND NUMBER OF DATA ERRORS.

THE ERROR STATISTIC SHOWS THE STATUS-ERRORS THAT
HAVE OCCURRED.

ERROR NN : NNNNN EXPLANATION.

NN IS THE ERRORNUMBER

NNNNN IS THE NUMBER OF TIMES THE ERROR OCCURRED.

EXPLANATION IS AN EXPLANATION OF THE STATUS-ERROR.