
Title:

RC36-00464.01

PAPER TAPE READER RELIABILITY

OPERATING INSTRUCTION

 **REGNECENTRALEN**

RC SYSTEM LIBRARY: FALKONERALLE 1 DK-2000 COPENHAGEN F

RCSL No: 44 - RT 1848

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Author: OS

0065 !
0066
0067 TITLE: PAPER TAPE READER RELIABILITY PROGRAM
0068
0069 ABSTRACT: THIS PROGRAM TESTS PAPER TAPE READERS. THE PROGRAM
0070 CHECKS DATA FROM 3 PAPER TAPES PUNCHED BY THE
0071 PAPER TAPE PUNCH RELIABILITY PROGRAM.
0072
0073 SIZE: 6566 BYTES INCLUSIVE TWO 48 BYTE INPUT BUFFERS AND ONE
0074 80 BYTE OUTPUT BUFFER.
0075
0076 DATE: 77.06.13
0077
0078 SPECIAL REQUIREMENTS (AT COMPILE-TIME):
0079
0080 CODEPROCEDURE P0149 (GETTIME) RCSL: 43-GL4928
0081 CODEPROCEDURE P0023 (DELAY) RCSL: 43-GL1409
0082 CODEPROCEDURE CHANGETABLE RCSL: 43-GL1519
0083 CODEPROCEDURE P0134 (ALTER) RCSL: 43-GL4215
0084 CODEPROCEDURE P0135 (FLOAT) RCSL: 43-GL4216
0085 CODEPROCEDURE P0136 (XCOUNT) RCSL: 43-GL4221
0086
0087 GENERAL INFORMATION:
0088
0089 THIS PROGRAM ACTS IN THE FOLLOWING WAY:
0090 AFTER ALL PARAMETERS HAVE BEEN INITIALIZED AND A START
0091 COMMAND HAS BEEN GIVEN, THE PAPER TAPE READER IS
0092 STARTED. DEPENDING OF THE SELECTED MODE THE PROGRAM
0093 TESTS THE DATA FROM ONE OF THREE PAPER TAPES.
0094 IF STATUS ERRORS OCCUR THEY ARE ACCUMMLATED.
0095 IF DATA ERRORS OCCUR THEY ARE LOGGED IMMEDIATELY.
0096 WHEN THE PROGRAM HAS BEEN RUNNING FOR THE SPECIFIED
0097 TIME OR A HARD ERROR OCCURS, THE PROGRAM IS STOPPED
0098 AND A STATISTIC IS LOGGED ON THE SELECTED LOG-DEVICE.
0099
0100 DRIVERS FOR THE PROGRAM:
0101
0102 INTERPRETER, DRIVER FOR THE SELECTED LOG-DEVICE,
0103 (CONVERSION TABLE IF THE LOG-DEVICE IS PRINTER),
0104 THE PROGRAM TIME AND PAPER TAPE READER DRIVER.
0105
0106 !

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0107 !
0108
0109 RUNTIME PARAMETERS:
0110
0111     INPUT DEVICE,(PTR),(PTR1)
0112
0113         TYPE THE NAME OF THE DRIVER FOR THE DEVICE THAT IS
0114         GOING TO BE TESTED.
0115
0116     OUTPUT LOG DEVICE,(TTY),(LPT),(CPT),(SP)
0117
0118         TYPE THE DEVICE WHERE STATISTICS ARE GOING TO BE
0119         LOGGED.
0120         TTY = TELETYPE
0121         LPT = LINE PRINTER
0122         CPT = CHARRABAND PRINTER
0123         SP = SERIAL PRINTER
0124
0125     TESTPERIOD,(HOURS,MINUTES)
0126         EFFECTIVE TIME THE TEST SHOULD RUN
0127
0128     STOP ON ERROR (YES) OR WAIT UNTIL STATISTIC (NO)
0129
0130         IF ANSWER = YES THEN TEST WILL STOP ON THE
0131         FIRST OCCURED ERROR.
0132         IF ANSWER = NO THEN TEST WILL STOP WHEN RUNTIME
0133         IS REACHED OR HARD ERROR OCCURS.
0134
0135     MODE: ALTERNATE(1), FLOATING ZERO(2), COUNT(3),
0136     COUNT IN STEPS(4)
0137
0138         TYPE THE DESIRED MODE OF THE PROGRAM:
0139
0140         1: TESTS THE TAPE PUNCHED IN MODE ALTERNATE
0141         2: TESTS THE TAPE PUNCHED IN MODE FLOATING ZERO
0142         3: TESTS THE TAPE PUNCHED IN MODE COUNT
0143         4: AS MODE 3, BUT THE READER IS STOPPED 0.5 SECOND
0144         FOR EVERY 1 SECOND.
0145
0146     TO SEE COMMANDS TYPE HELP ELSE NL
0147
0148         IF ANSWER = HELP THEN ALL THE POSSIBLE COMMANDS
0149         AND THE MEANING OF THEM WILL BE DISPLAYED.
0150
0151 INPUT MESSAGES:
0152
0153     START    STARTS EXECUTION WRITING: EXECUTION STARTED HH.MM.SS
0154             AFTER LOG DEVICE ERROR START MEANS REPEAT THE LOG
0155             OUTPUT.
0156
0157     STOP     STOPS EXECUTION WRITING: EXECUTION STOPPED HH.M.SS
0158             AFTER LOG DEVICE ERROR STOP MEANS SKIP THE LOG OUTPUT.
0159
0160
0161     CONT     EXECUTION IS CONTINUED WITHOUT CHANGING STATUS
0162             WRITING: EXECUTION CONTINUED HH.MM.SS
0163
0164     INIT     DISPLAY RUNTIME PAPAMETERS
0165
0166 !

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0167 !
0168
0169 OUTPUT MESSAGES:
0170
0171 EXECUTION STARTED HH.MM.SS
0172
0173 WRITTEN AS ACCEPT OF COMMAND START
0174
0175 EXECUTION STOPPED HH.MM.SS
0176
0177 WRITTEN AS ACCEPT OF COMMAND STOP
0178
0179 EXECUTION CONTINUED HH.MM.SS
0180
0181 WRITTEN AS ACCEPT OF COMMAND CONT
0182
0183 LOG DEVICE ERROR NNNNN
0184
0185
0186 CONSULT THE RC3600 OPERATING GUIDE
0187
0188 TEST STATISTIC AND ERROR STATISTIC
0189
0190 USER INFORMATION TO SEE THE RESULT OF THE TEST
0191 (SEE NEXT PAGE)
0192
0193 WHEN AN ERROR OCCURS THE FOLLOWING IS OUTPUT:
0194
0195 MODE: N CHAR.NO XXXXXXXXXX EXPECTED VALUE: YYY READ VALUE: ZZZ
0196
0197 N SHOWS THE SELECTED MODE
0198 XXXXXXXXXX IS THE CHARACTER THAT IS UNCORRECT
0199 YYY IS THE VALUE (DECIMAL) THAT SHOULD HAVE BEEN READ
0200 ZZZ IS THE VALUE (DECIMAL) THAT IS ACTUALLY READ
0201
0202 THE PROGRAM WILL STOP:
0203
0204 1) WHEN A CHARACTER THAT SHOULD HAVE BEEN DIFFERENT FROM ZERO
0205 IS READ AS A ZERO AND THE FOLLOWING CHARACTER ALSO IS READ
0206 AS ZERO.
0207 THIS HAPPENS WHEN THE LAST CHARACTER ON THE TAPE IS REACHED.
0208 THE TEST CAN BE CONTINUED BY REWINDING AND RESTARTING THE
0209 TAPE AND GIVING THE COMMAND CONT.
0210
0211 2) WHEN RUNTIME IS REACHED.
0212
0213 3) WHEN 25 DATA ERRORS IN SUCCESSION ARE DISCOVERED.
0214
0215 4) WHEN THE STOP COMMAND IS GIVEN.
0216
0217 5) WHEN A HARD ERROR OCCURS
0218
0219 IN CASE 2 AND 4 STATISTIC WILL BE LOGGED.
0220 !

0221 !

0222

0223 TEST STATISTIC AND ERROR STATISTIC:

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0225

THE TEST STATISTIC AND ERROR STATISTIC IS LOGGED
ON THE SELECTED LOG-DEVICE WHEN THE TEST IS ENDED.

0226

0227

0228

0229

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

0230

0231

0232

THE ERROR STATISTIC SHOWS THE STATUS ERRORS THAT
HAVE OCCURRED.

0233

0234

0235

ERROR NN : NNNNN EXPLANATION.

0236

NNNNN IS THE NUMBER OF TIMES THE ERROR OCCURRED.

0237

EXPLANATION IS AN EXPLANATION OF THE STATUS ERROR.

0238

0239 !

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