Title:

RC 36-00444.00

CASSETTE TAPE RELIABILITY

OPERATING INSTRUCTION



REGNECENTRALEN

RCSL No:

44 - RT 1644

Edition:

*7*7.11.19

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Ceywords:	Musil, Device	Reliability, Ca	sette Tape,	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 autoload 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> P444

RETURN

1: CT = Cassette Tape Unit

CT1 = Second Cassette Tape Unit

EVENTUAL Log Device, - if not TTY:

2: LPT = Line Printer 3: Empty = ASCII

CPT = Charaband Printer TAB1 = ASCII

SP = Serial Printer TAB2 = RC Standard

TAB3 = PL1

TAB4 = Hungarian

TAB5 = Cyrillic

```
RC36-00444 PAGE 01
0065 !
0066
0067 TITLE:
                     CASETTE TAPE RELIABILITY PROGRAM
0068
                     THIS PROGRAM TESTS CASETTE TAPE UNITS BY WRITTING
0069 ABSTRACT:
0070
                     AND CHECK-READING DATA.
0071
0072
0073 SIZE:
                     8722 BYTES
0074
0075 DATE:
                     77.04.05
0076
0077
0078 SPECIAL REQUIREMENTS:
0079 (AT COMPILE-TIME)
0800
0081
                      CODEPROCEDURE POOO1 (TIME)
                                                       RCSL: 43-GL182
                                                       RCSL: 43-GL1409
                     CODEPROCEDURE POOZ3 (DELAY)
2800
0083
                     CODEPROCEDURE CHANGETABLE
                                                       RCSL: 43-GL1519
0084
0085
0086 GENERAL INFORMATION:
0087
                     THIS PROGRAM ACTS IN THE FOLLOWING WAY:
0088
                     AFTER ALL PARAMETERS HAS BEEN INITIALIZED AND A START
9600
                     COMMAND HAS BEEN GIVEN THE PROGRAM STARTS WRITTING
0090
0091
                     AND READING FROM THE CASETTE TAPE UNIT (FOR MORE
0092
                     DETAILED DESCRIPTION SEE SPECIFICATION PAGE 05).
0093
                     IF STATUS ERRORS OCCURS THEY ARE ACCUMOLATED. IF ERRORS
                     IN THE DATA OCCURS THEY ARE LOGGED IMMEDIATLY. WHEN THE
0094
0095
                     PRUGRAM HAS BEEN RUNNING FOR SPECIFIED TIME OR A HARD
0096
                     ERROR OCCURS, THE PROGRAM IS STOPPED, AND A STATISTIC
                     IS LOGGED ON THE SELECTED LOG-DEVICE.
0097
0098
0099
0100 DRIVERS FOR THE PROGRAM:
0101
0102
                     INTERPRETER, DRIVER FOR THE SELECTED LOG-DEVICE,
0103
                     (CONVERSION TABLE IF LOG DEVICE IS PRINTER),
0104
                     THE PROGRAM TIME AND LATEST VERSION OF CASETTE TAPE DRIVER
0105
                     (FOR UNIT O CTOO9).
0106
0107 1
0108
```

0109	1	RC36-00444 PAGE UZ
0110	PHATTME	PARAMETERS:
0112	KONITHE	PARAMETERS;
0113		
0114		UNITNO
0115		
0116		TYPE THE UNIT-NUMBER THAT IS GOING TO BE
0117		TESTED.
0118		
0119		OUTPUT LOGDEVICE, (TTY), (LPT), (CPT), (SP)
0120		•
0121 0122		TYPE THE DEVICE WHERE STATISTICS ARE GOING
0123		TO BE LOGGED.
0123		TTV - TELETYAR
0125		TTY = TELETYPE
0126		LPT = LINEPRINTER
0127		CPT = CHARABAND PRINTER SP = SERIAL PKINTER
0128		SF - SERIAL PRINTER
0129		TESTPERIOO, (HOURS, MINUTES)
0130		TEST ENTON THOURS, MINUTES
0131		EFFECTIVE TIME THE TEST SHOULD RUN.
0132		Willestate Tank the Test Shoots Rone
0133		STOP ON ERROR (YES) OR WAIT UNTIL STATISTIC (NO)
0134		The state of the s
0135		IF ANSWER = YES THEN TEST WILL STOP ON THE
0136		FIRST OCCURRED ERROR
0137		·
0138		IF ANSWER = NO THEN TEST WILL STOP WHEN RUNTIM
0139		IS REACHED OR HARD ERROR OCCURS.
0140		
0141		NUMBER OF BLOCKS/FILES (MAX 20)
0142 0143		
0143		TYPE THE NUMBER OF DATA BLOCKS TO BE WRITTEN
0145		IN EACH FILE.
0146		BLOCKLENGTH (MAX 2000)
0147		BEOURDENGTH THAN 2000)
0148		TYPE THE NUMBER OF CHARACTERS TO BE WRITTEN
0149		IN EACH DATA BLOCK.
0150		The Cash of the Decens
0151		
0152		10 SEE THE COMMANDS TYPE HELP ELSE NL
0153		The second secon
0154		IF ANSWER = HELP THEN ALL POSSIBLE COMMANDS
0155		AND THE MEANING OF THEM WILL BE DISPLAYED.
0156	<u>!</u>	
0157		

```
0158
  0159
  0160 !
                                                         RC36-00444 PAGE 03
 0161
  0162
 0163 INPUT MESSAGES:
 0164
 0165
                       START :
                                        STARTS EXECUTION WRITTING:
 0166
                                        EXECUTION STARTED HH.MM.SS
 0167
                                        AFTER LOG DEVICE ERROR START MEANS
 0168
                                        REAPEAT THE LOG-OUTPUT.
 0169
 0170
                       STOP
                                        STOPS EXECUTION WRITTING:
 0171
                                        EXECUTION STOPPED HH.MM.SS
 0172
                                        AFTER LOG DEVICE ERROR STOP MEANS
 0173
                                        SKIP THE LOG-OUTPUT, AND RESTART THE
 0174
                                        PROGRAM AT INIT-PHASE.
 0175
 0176
                       CONT
                                        EXECUTION IS CONTINUED WITHOUT CHANGING
 0177
                                        STATUS, WRITTING:
 017a
                                        EXECUTION CONTINUED HH-MM-SS
 0179
 0180
                       INIT
                                        DISPLAY RUNTIME PARAMETERS.
 0181
 0182
                       RELEASE:
                                        ONLY WHEN EXECUTION IS STOPPED.
 0183
                                        FORCES THE PROGRAM IN END JOB AND
 0184
                                        RELEASES DRIVERS AS IF HOURS MINUTES
 0185
                                        HAS GONE.
 0186
 0187
0188 OUTPUT MESSAGES:
0189
0190
                       EXECUTION STARTED HH.MM.SS
0191
0192
                               WRITTEN AS ACCEPT OF COMMAND START
0193
0194
                      EXECUTION STOPPED HH.MM.SS
0195
0196
                               WRITTEN AS ACCEPT OF COMMAND STOP
0197
0198
                      EXECUTION CONTINUED HH.MM.SS
0199
0200
                               WRITTEN AS ACCEPT OF COMMAND CONT
0201
9202
                      LOG DEVICE ERROR NNNNN
0203
0204
                              CONSULT THE RC3600 OPERATING GUIDE
0205
0206
                      TEST STATISTIC AND ERROR STATISTIC
0207
8020
                              USER INFORMATION TO SEE THE RESULT OF
0209
                              THE TEST (SEE NEXT PAGE).
0210 !
0211
```

0212

```
0213
 0214 1
                                                        RC36-00444 PAGE 04
 0215
 0216
 0217
              WHEN AN ERROR OCCURS THE FOLLOWING IS OUTPUT:
 0218
0219
              UNIT: N
                        FILE: XXXXX
                                       BLOCK: YYYYY
                                                       <STATE>
0220
0221
              WHERE N
                          = UNIT NUMBER
0222
                    XXXXX = FILE NUMBER IN WHICH THE ERROR OCCURRED.
0223
                    YYYYY = BLOCK NUMBER IN WHICH THE ERROR OCCURRED.
0224
0225
                    <STATE> IS ONE OF THE FOLLOWING 4 TEXTS
0226
0227
                    WRITE
                                  : THE UNIT WAS WRITTING DATA
6520
                                    WHEN THE ERROR OCCURRED.
0229
                                   THE UNIT WAS READING AND CHECKING
                    READ
0230
                                    DATA WHEN THE ERROR OCCURRED.
0231
                    READ CONT
                                  : THE UNIT WAS READING CONTINOUS AND CHECKING
0232
                                    DATA WHEN THE ERROR OCCURRED.
0233
                    POSITIONING
                                  : THE UNIT WAS POSITIONING TO FILE
0234
                                    XXXXX BLOCK YYYYY WHEN THE ERROR
0235
                                    OCCURRED.
0236
0237
              DEPENDING ON THE ERROR THE NEXT LINE WILL BE:
0238
0239
             PARITY ERROR
0240
             PUSITION ERROR
0241
              EOF STATUS MISSING
0242
             LENGTH ERROR
                             GOOD: XXXXX
                                            BAD: YYYYY
0243
             DATA ERROR
                             G000: 8'NNN
                                            BAD: 8ºMMM
                                                         CHARACTERNO: VVVVV
0244
0245
             PARITY AND POSITION ERROR NEED NO EXPLANATION.
0246
0247
             EOF STATUS MISSING
                                  MEANS THAT FILE XXXXX BLOCK YYYYY SHOULD
0248
                                  HAVE BEEN A TAPE-MARK, BUT WHEN IT WAS
U249
                                  READ NO EOF-STATUS WAS RETURNERED.
Ú250
                                  NOTE: AFTER THIS THE RELIABILITY WILL REWIND
0251
                                         THE CASETTE AND START AT FILE 1 BLOCK 1.
0252
0253
             LENGTH FRROR
                                  MEANS THAT THE BLOCKSIZE WHEN READING IS
0254
                                  NOT EQUAL TO THE EXPECTED ONE.
0255
                                  XXXXX = CORRECT BLOCKSIZE, YYYYY = READ
0256
                                  BLOCKSIZE.
0257
0258
             DATA ERROR
                                  MEANS THAT THE READING AND CHECKING DATA,
0259
                                  FILE XXXXX BLOCK YYYYY BYTE VVVVV DOES
0260
                                  NOT CORRESPOND TO WHAT THERE SHOULD BE
0261
                                  WRITTEN IN IT. NAM IS THE CORRECT VALUE
0262
                                  IN OCTAL, AND MMM IS THE READ VALUE IN OCTAL.
0263
                                  IF 3 DATA ERRORS HAVE OCCURRED IN 1 BLOCK.
0264
                                  IT IS REGARDED AS A BAD BLOCK, AND THE
0265
                                  KEST OF IT IS NOT CHECKED.
0266 !
```

0267

```
0268
0269 !
                                                       RC36-00444 PAGE US
0270
0271 TEST STATISTIC AND ERROR STATISTIC:
0272
0273
                      THE TEST STATISTIC AND ERROR STATISTIC IS LOGGED
0274
                      ON THE SELECTED LOG-DEVICE WHEN THE TEST HAS BEEN
0275
                      RUNNING FOR THE SPECIFIED TIME OR WHEN THE COMMAND
0276
                      STOP IS GIVEN.
0277
0278
                      THE TEST STATISTIC SHOWS THE TIME FOR START, STOP
0279
                      AND THE EFFECTIVE RUN-TIME. FURTHERMORE IT SHOWS
0280
                      THE UNIT-NUMBER, HOW MANY FILES THAT HAS BEEN WRITTEN
0281
                      AND READ AND HOW MANY ERRORS THAT HAVE OCCURRED.
0282
0283
0284
                      THE ERROR STATISTIC SHOWS THE STATUS-ERRORS THAT
0285
                      HAVE OCCURRED.
0286
0287
                      ERROR NN: NNNNN
                                              EXPLANATION.
0288
                     NN IS THE ERRORNUMBER
                      NNNNN IS THE NUMBER OF TIMES THE ERROR OCCURRED.
0289
0290
                      EXPLANATION IS AN EXPLANATION OF THE STATUS-ERROR.
0291
0292
0293
0294 SPECIFICATION:
0295
0296
                     IN THE FOLLOWING
0297
0298
                      X = RUNTIME PARAMETER BLOCKS/FILE.
0299
                      L = RUNTIME PARAMETER BLOCKSIZE.
0300
0301
                      THE FUNCTION OF THE CASETTE TAPE UNIT RELIABILITY IS:
0302
0303
                     1. POSITION TO FILE 1 BLOCK 1.
0304
0305
                   . 2. WRITE A FILE OF X BLOCKS OF THE LENGTH L
0306
0307
                     3. EACH 5. TIME POSITION TO FILE 1 BLOCK 1 (REWIND)
0308
0309
                     4. READ AND CHECK X+1 BLOCKS
                         (THE LAST BLOCK SHOULD GIVE EOF-STATUS).
0310
0311
0312
                     5. IF EOT IS REACHED THEN GOTO 1.
0313
0314
                     THIS WILL CONTINUE UNTIL IT HAS RUN HOURS.MINUTES
                     UNLESS IT IS INTERUPTED BY OPERATOR OR HARD ERROR.
0315
0316
0317
0318 1
0319
```

0320