Title:

RC36-00822.00

DISC RELIABILITY

OPERATING INSTRUCTION



 RCSL No:
 44 - RT 1849

 Edition:
 79 02 02

 Author:
 OS

RC SYSTEM LIBRARY: FALKONERALLE 1 DK-2000 COPENHAGEN F

	0065	1		RC36-00822 PAGE 01
	0060	TITLE:	DISC RELIABILITY PROGRAM	
	0069	ABSTRACT:	THIS PROGRAM TESTS DISC UNITS E AND CHECK-READING DATA WITHIN A	BY WRITING DISCFILE.
	0072	SIZE:	10666 BYTES	
	0074	DATE:	78.03.29	
	0078	SPECIAL REQUIREN (AT COMPILE-TIME	'ENTS: E)	
	0081 0082 0083 0084 0085		CODEPROCEDURE P0001 (TIME) CODEPROCEDURE P0023 (DELAY) CODEPROCEDURE P0061 (RANDOM) CODEPROCEDURE CHANGETABLE	RCSL: 43-GL182 RCSL: 43-GL1409 RCSL: 43-GL2763 RCSL: 43-GL1519
0086 0087 GENERAL INFORMATION:				
-	0088 0089 0090 0091 0092 0093 0094 0095 0096 0097 0098 0099 0100		THIS PROGRAM ACTS IN THE FOLLOWI AFTER ALL PARAMETERS HAVE BEEN I COMMAND HAS BEEN GIVEN THE PROGR AND READING A FILE ON A DISC DETAILED DESCRIPTION SEE SPECIFI IF STATUS ERRORS OCCUR THEY ARE IN THE DATA OCCUR THEY ARE LOGGE PROGRAM HAS BEEN RUNNING FOR A ERROR OCCURS, THE PROGRAM IS STO IS LOGGED ON THE SELECTED LOG-DE	ING WAY: INITIALIZED AND A START RAM STARTS WRITING (FOR MORE CATION PAGE 06). ACCUMULATED. IF ERRORS ED IMMEDIATLY. WHEN THE SPECIFIED TIME OR A HARD OPPED, AND A STATISTIC EVICE.
	0101	DRIVERS FOR THE	PROGRAM:	
	0103 0104 0105 0106		INTERPRETER, DRIVER FOR THE SELE (CONVERSION TABLE IF LOG DEVICE THE PROGRAM TIME, CAT76 AND DRIV DRIVE.	ECTED LOG-DEVICE, IS PRINTER), (ERS FOR THE SPECIFIED
)	0108	1		

,

•

V11V	1		KUDO-UVOCE PAUR US
0111			
0112	RUNTIME	PARAMETERS:	
0113			
0114		ODTVENO	
0115		DRIVENU	
0110			TYPE THE DRIVE-NUMBER THAT IS GOING TO BE
0118			TESTED.
0119			
0120		USE EXI	STING FILE (OLD) OR CREATE A NEW FILE (NEW)
0121			
0122			TYPE OLD OR NEW. IF NEW SPECIFIED TYPE THE
0123			SIZE ( IN SECTORS ) AND THE EXTENSION (BIG OR
0124			SMALLJ UF THE FILE.
0125		ETI ENAMI	<b>F</b>
0127		1 4667710	-
0128			TYPE THE FILENAME TO BE USED FOR THE TEST.
0129			( AT!! ALL EXISTING DATA IN THE FILE ARE LOST ).
0130			
0131		CUTPUT	LOGDEVICE, (TTY), (LPT), (CPT), (SP)
0132			TYDE THE DEVICE WHEDE STATISTICS ADE CÔINC
0133			TO BE LOGGED
0135			
0136			TTY = TELETYPE
0137			LPT = LINEPRINTER
0138			CPT = CHARABAND PRINTER
0139			SP = SERIAL PRINTER
0140		7507950	TOD ANONOS MINUTESY
0141		IESIFER	100) (HOOK2)HINO153)
0143			EFFECTIVE TIME THE TEST SHOULD RUN.
0144			
0145		STOP ON	ERROR (YES) OR WAIT UNTIL STATISTIC (NO)
0146	1		
0147	,		IF ANSWER = YES THEN TEST WILL STOP AT THE
0148	) )		FIRST ULCURRED ERROR
0149	, 1		TE ANSWER = NO THEN TEST WILL STOP WHEN RUNTIME
0151			IS REACHED OR HARD ERROR OCCURS.
0152			
0153	5	AUTOMAT	IC DATAGENERATING (AUTO) OR SPECIAL DATA (SPEC).
0154	<b>}</b>		
0155	5		IF ANSWER = AUTO THEN RANDUM AND SKEWPATTERN
0150	7		DATA TO ADIO-ALICATEL OPACAMIED DI LUE EKOOKALS
0158	3		IF ANSWER = SPEC THEN DATA IS SELECTED BY
0159	}		THE OPERATOR.
0100	)		
0161		DATA BY	TE NN
0162			
0103	5 I		UNLY WHEN SPECIAL DATA, GIVE THE DECLMAL VALUE (A-DDEN FOD BYTE NN. IT TO DASSIBLE
0165	+ 		TO SPECIEV MAX 25 BYTES, TE 16 DATA BYTES
0166	· )		ARE SPECIFIED THEN EACH BLOCK WILL CONTAIN
0167	7		THE 16 DATA BYTES 32 TIMES,
0168	<u>)</u>		
0100	9	TO SEE	THE COMMANDS TYPE HELP ELSE NL
0170	)		TE ANOUED - USED THEN ALL DOCOTOLE CONMANDS
01/1	>		AND THE MEANING OF THEM WILL BE DISPLAYED
0173	- 5 1		AND THE DEMNING OF DUCK MICE DE DIGUERIEDS
017-	4		

.

175 1				RC36-00822 PAGE 03
176				
177				
178 INPUT	MESSAGES:			
79				
6 <b>0</b>		START	8	STARTS EXECUTION WRITING:
51				EXECUTION STARTED HH.MM.SS
32				AFTER LOG DEVICE ERROR START MEANS
83				REAPEAT THE LOG-OUTPLT.
84				
185		STOP	a 6	STOPS EXECUTION WRITING:
86				EXECUTION STOPPED HH.MM.SS
87				AFTER LOG DEVICE ERRCR STOP MEANS
88				SKIP THE LOG-OUTPUT, AND RESTART THE
89				PROGRAM AT INIT-PHASE.
90				
91		CONT	:	EXECUTION IS CONTINUED WITHOUT CHANGING
92			-	STATUS, WRITING:
93				EXECUTION CONTINUED FH.MM.SS
94				
95		TNTT	•	DISPLAY RUNTIME PARAMETERS.
96		21021	•	
97		RELEASE		ONLY WHEN FXECUTION IS STOPPED.
98				FORCES THE PROGRAM IN END JOB
99				RELEASES DRIVERS AND REMOVES THE FILE-
00				AREAPROCESS AS IF HOURS MINUTES HAS GON
01				
202				
203 OUTPU	T MESSAGES:			
204				
205		EXECUTI	ON START	ED HH.MM.SS
206				
207			WRITTEN	AS ACCEPT OF COMMAND START
208				
209		EXECUTI	ON STOPP	ED HH.MM.SS .
210				-
211			WRITTEN	AS ACCEPT OF COMMAND STOP
212				
213		EXECUTI	ION CONTI	NUED HH.MM.SS
214				
215			WRITTEN	AS ACCEPT OF COMMAND CONT
216				
217		LOG DEV	ICE ERRO	RINNNN
218				
219			CONSULT	THE RC3600 OPERATING GUIDE
220		TEST ST	TATISTIC	AND ERROR STATISTIC
220 221				
220 221 222			USER IN	FORMATION TO SEE THE RESULT OF
220 221 222 223				T (CEE NEVT PACE)
220 221 222 223 224			THE TES	
220 221 222 223 224 225 !			THE TES	
220 221 222 223 224 225 ! 225 ! 226			THE TES	I GEE MENT FAGES.
220 221 222 223 224 225 225 226 227			THE TES	I GEE MENT FOLD.

.

F

	0228			
	0220 1			RC36-00822 PAGE 04
•	0230			
	0231			
	0232	WHEN AN ERROR OCCURS	THE FOLLOWING IS OL	ITPUT:
•	0233			
	0233	NOTVER NUM ETLER YY		MODE: ΔΑΛΑΔΑΔΑ STATE
	0234	DRIVE: NNN FILL: AA		
	0235			
	0236	WHERE NNN = DRIVE N	IUMBER	
	0237	XXXXX = FILE	IN WHICH THE ERROR (	CCURRED.
	0238	YYYYY = BLOCK N	JUMBER IN WHICH THE	ERROR OCCURRED.
	0230		ISNTIAL OF PANDOM PO	STTCNING
	0239	AAAAAAAA = 3EGC	JENTIAL ON RANDON TO	101 1 10H 1H 0 8
	0240			
	0241	<state> IS ONE</state>	OF THE FOLLOWING TE	EXTS
	0242			
	02/13	WALLE BANDOM .	THE UNIT WAS WRITTN	IG RANDOM DATA
	0245	WALLE MARDON .	HUCH THE EDDOD OCC	
	0244		WHEN THE ERROR ULL	
	0245	WRITE FLOAT1 :	THE UNIT WAS WRITH	IG FLOATING UNE DATA
	0246		WHEN THE ERROR OCCU	JRRED.
	02/17	WOTTE 115 .	THE UNIT WAS WRITE	NG ALL 1'S
	0297		WUEN THE EDDAD CON	110050
	0248		MAEN THE ERROR COUR	
	0249	WRITE O'S :	THE UNIT WAS WRITH	NG ALL U'S
	0250		WHEN THE ERROR CCCL	JRRED.
	0251	WRITE 81333 .	THE UNIT WAS WRITIN	NG 81333
-	0251		NUEN THE EDDAS OCT	
	VCJC		THE DAYS GAR COTTA	
	0253	WRITE SPECIAL:	THE UNIT WAS ARTIT	NG UPERATURA
	0254		SPECIFIED DATA ARE!	N THE ERROR OCCURRED.
	0255	READ RANDOM :	THE UNIT WAS READI!	NG AND CHECKING
	0256		RANDOM DATA OHEN TH	HE ERROR OCCURRED.
	0250	DEAD FLOATI	THE HATT WAS DEADTH	AND CHECKING
	0257	REAU PLUATI :	THE UNIT MAS REPT.	NEN THE EDOOD OCCUBBED
	0258		FLUATING UNE DATA I	HEN THE ERROR OCCURRED.
	0259	READ 1'S :	THE UNIT WAS READIN	NG AND CHECKING
	0260		ALL 1'S DATA WHE	N THE ERROR OCCURRED.
	0261	READ O'S .	THE UNIT WAS READIN	NG AND CHECKING
	0201	NERD 0 G .	ALL ALS DATA WEEN	THE EDOAD ACCURRED.
	0282		ALL US DATA ANCA	THE ERROR OCCONNEDT
	0263	READ 8'333 :	THE UNIT WAS READIN	NG ANU CHECKING
	0264		8'333 DATA WHEN TH	E ERROR OCCURRED.
	0265	READ SPECIAL :	THE UNIT WAS READIN	NG AND CHECKING
	0266		OPERATOR-SPECIFIED	DATA WHEN THE
	0200			
	0207		ERROR UCCORRED.	
	0268			
	0269	DEPENDING ON THE ERR	OR THE NEXT LINE WI	L BE:
	0270			
	0271	PARITY FRRAR		
	0271	SECK EDDDD		
-	0272	SEEN ERRUR	DEAD	DI 064 . 77777
	0275	POSITION ERRUR	REAU	DLUCK: 2222
	0274	LENGTH ERROR GOOD:	XXXXX BAD: YYYYY	
	0275	DATA ERROR GOOD:	8'NNN BAD: 8'MMM	CHARACTERNO: VVVVV
	0276			
	0277	PARTTY AND SEEK ERRO	R NEED NO EXPLANATI	0N -
	0277	TARITI AND GEEN ENNO		
	0270			VOTOC WUCK DEADING IS
	0279	LENGTH ERROR	MEANS THAT THE BLUC	VOINE MUEN READING TO
	0280		NOT EQUAL TO THE EX	PECTED DNE.
	0281		XXXXX = CORRECT BLC	CKSIZE, YYYYY = READ
	0282		BLOCKSIZE.	
	0202		erocuorret.	
	0203			THE AND CHECKENE DATA
	0284	DATA ERRCR	MEANS THAT THE REAU	ING AND LEELKING DATA,
	0285		FILE XXXXX BLOCK YY	YYY BYTE VVVVV DOES
	0286		NOT CORRESPOND TO W	HAT IT SHOULD BE
	0287		WRITTEN IN IT. NNN	IS THE CORRECT VALUE
	0207		AND AND AND THE	S THE DEAD VALUE IN OCTAL
	0230		IN ULIAL, AND MMM 1	U THE REAU VALUE IN UCTAL.
	0593		IF 3 DATA ERRORS HA	VE UCCURRED IN I HLOCK,
	0290		IT IS REGARDED AS A	BAD BLOCK, AND THE
	0291		REST OF IT IS NOT C	HECKED.
	0202			
	VC7C		MCANG THAT A HODAC	NIOCK WAS DEAD
-	0243	FUSTION ERROR	MEANO IMALA MRUNG	DEUCH MHU KEHUs 77773
	0594		THE READ BLUCK WAS	
	0295 1			
	0295			

Ŀ

0297 0298 1	RC36-00822 PAGE 05
0299	
0300 TEST STATISTIC	AND ERROR STATISTIC:
0301	
0302	THE TEST STATISTIC AND ERROR STATISTIC IS LOGGED
0303	ON THE SELECTED LOG-DEVICE WHEN THE TEST HAS BEEN
0304	RUNNING FOR THE SPECIFIED TIME OR WHEN THE COMMAND
0305	STOP IS GIVEN.
0306	
0307	THE TEST STATISTIC SHOWS THE TIME FOR START, STOP
0308	AND THE EFFECTIVE RUN-TIME. FURTHERMORE IT SHOWS
0309	THE DRIVE-NUMBER, THE FILE NAME, HOW MANY BLOCKS
0310	THAT HAVE BEEN WRITTEN AND READ AND FOW MANY ERRORS
0311	THAT HAVE OCCURRED.
0312	
0313	
0314	THE ERROR STATISTIC SHOWS THE STATUS-ERRORS THAT
0315	HAVE OCCURRED.
0316	
0317	ERROR NN: NNNNN EXPLANATION.
0318	NN IS THE ERFORNUMBER
0319	NNNNN IS THE NUMBER OF TIMES THE ERROR OCCURRED.
0320	EXPLANATION IS AN EXPLANATION OF THE STATUS-ERPOR.
0321	· · · · · · · · · · · · · · · · · · ·
0322 1	

**,** 

8

0323 0324 0325 0326	1 Specification:	RC36=00822 PAGE 06
0327 0328		THE FUNCTION OF THE DISC RELIABILITY PROGRAM 1S:
0329 0330 0331		NOTE: ALL BLOCKS ( SECTORS ) CONTAIN THE BLOCKNUMBER IN THE FIRST 5 BYTES OF THE BLOCK.
0332 0333 0334		1. POSITION TO BLOCKNO O WITHIN THE SPECIFIED FILE.
0335		2. IF SPECIAL DATA SPECIFIED GOTO 12.
0336 0337 0338		3. SET MODE TO SEQUENTIAL MODE.
0339		4. WRITE A BLOCK OF RANDOM DATA.
0340 0341 0342		5. WRITE A BLOCK OF FLOATING ONE DATA: 8'200 8'100 8'040 8'020 8'010 8'004 8'002 8'001 8'200 ETC.
0344		6. WRITE A BLOCK OF ALL 1'S.
0345		7. WRITE A BLOCK OF ALL O'S.
0348		8. WRITE A BLOCK WHERE ALL THE BYTES ARE 8'333.
0349 0350 0351 0352		9. POSITION TO LAST BLOCK OF RANDOM DATA. READ AND CHECK THE NEXT 5 BLOCKS OF DATA ( RANDOM DATA, FLOATING ONE DATA, ALL 1'S, ALL 0'S, ALL 8'33 ).
0353 0354 0355		10. SET MODE TO OPPOSITE OF CURRENT MODE (SEQUENTIAL/RANDOM).
0356		11. GO TO 4.
0357		12. SET MODE TO SEQUENTIAL MODE.
0360		13. WRITE 5 BLOCKS WITH THE SPECIFIED DATA.
0361 0362 0363		14. POSITION TO THE FIRST BLOCK WITHIN THE 5 BLOCKS. READ AND CHECK THE 5 BLOCKS.
0364 0365		14. SET MODE TO OPPOSITE OF CURRENT MODE (SEQUENTIAL/RANDOM).
0366		16. GO TO 13.
0369 0370 0371 0372 0373	1	THIS WILL CONTINUE UNTIL THE PROGRAM HAS RUN HOURS.MINLTES UNLESS IT IS INTERRUPTED BY THE OPERATOR OR HARD ERROR OCCURS

.

-