MAINDEC: -08-DIRXB-D-D

TITLE: -PX8/PX91 DATA RELIABILITY/EXERCISER PROGRAM

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-MAY ,1976

MAINTAINER: -DIAGNOSTIC ENGINEERING

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#### ABSTRACT

PERTAINING TO THE DATA RELIABILITY OF THE DISKETTE DRIVE(S) THAT ARE THIS PROGRAM IS DESIGNED FOR THE COLLECTION OF STATISTICAL INFORMATION

ASSOCIATED WITH THE RX01 DISKETTE MICROPROCESSOR CONTROLLER, AND RX8

#### INTERFACE,

THE CATEGORIES OF STATISTICAL INFORMATION ACCUMULATED ARE:

- COMPLETED PASSES OF THE PROGRAM
- (B) PROGRAM RESTARTS (BOTH MANUAL AND PROGRAMMED AUTOMATIC)
- 3 INTERUM STATISTICAL REPORTS
- g RECOVERABLE AND NON-RECOVERABLE (PER DISKETTE) OF:
- WRITE ERROR
- (2) READ ERROR
- (4) CRC AND DATA ERROR NO CRC BUT DATA ERROR
- (5) CRC BUT NO DATA ERROR
- (6) SEEK ERROR
- PARITY ERROR
- (F)
- TOTAL WRITES/READS (PER DISKETTE)
  TRACK ACCESS (ACTUATOR MOVEMENTS TO THAT TRACK)
- 9 SELF ACCESS (WITH NO ACTUATOR MOVEMENTS TO THAT TRACK)
- CONTROL FAILURES WHICH RESTARTS THE PROGRAM: ALL ERRORS (PER TRACK/PER DISKETTE) EXCLUDING "UNEXPECTED"
- UNEXPECTED RX01 INTERRUPT REQUEST
- MISSING ERROR FLAG
- DEVICE TEST HUNG

#### REVISION D

THIS REVISION CONTAINS THE CODE FOR THE CONSOLE PACKAGE.
THE CODE FOR SELECTING THE DEVICE CODES FOR THE CONTROLLER
HAS BEEN CHANGED TO ALOW DEVICE CODE SELECTION VIA SWITCH REGISTER SETTINGS.

INTERFACES FOR THE APT-8 SYSTEM HAVE BEEN PROVIDED ALLOWING THIS DIAGNOSTIC TO RUN UNDER APT-8.

THE REAL TIME CLOCK ROUTINE AND ANY DECIMAL ROUTINES HAVE BEEN DELETED

CONSERVE SPACE.

#### 2. REGUL...

2.1 EQUIPMENT

PDP-8/E TYPE GENERATION COMPUTER WITH 4K OF CORE, CONSOLE SWITCHES,

TELETYPE, AND AN RX01 DISKETTE SUBSYSTEM.

THIS PROGRAM OCCUPIES PROGRAM LOCATIONS 0 THRU 7577 AND MUST

2.2 STORAGE

RESIDE WITHIN FIELD 0. IF THE CONSOLE PACKAGE

IS ACTIVE THEN FIELD 1 LOCATIONS 200 TO 2000 ARE USED.

2.3 PRELIMINARY DIAGNOSTIC PROGRAMS 

THIS PROGRAM ASSUMES THAT THE RX8/RX01 INTERFACE DIAGNOSTIC PROGRAM

HAS SOME TIME PREVIOUSLY EXECUTED SUCCESSFULLY.

3. LOADING PROCEDURE

THIS PROGRAM IS IN BINARY FORMAT. TO LOAD THIS PROGRAM INTO CORE,

FOLLOW THE INSTRUCTIONS PUBLISHED FOR THE PARTICULAR BINARY FORMAT

LOADER BEING USED.

4. STARTING PROCEDURE

4.1 STARTING ADDRESS LOCATIONS

THIS PROGRAM HAS 3 STARTING ADDRESS LOCATIONS:

\* DATA RELIABILITY/EXERCISER \*

STARTING THIS PROGRAM AT PROGRAM LOCATION 200, AND SUCCESSFULLY SUPPLYING

COLLECTING STATISTICAL INFORMATION PERTAINING TO THE DATA RELIABILITY OF

THE NECESSARY TEST PARAMATERS REQUESTED, DIRECTS THIS PROGRAM TO BEGIN

THE RX01 SUBSYSTEM. THIS WILL BE THE START LOCATION OF THE CONSOLE PACKAGE.

\* RESTART OF DATA RELIABILITY/EXERCISER \*

STARTING THIS PROGRAM AT PROGRAM LOCATION 201 DIRECTS THE PROGRAM TO

CONTINUE AMMENDING ALL ADDITIONAL STATISTICAL INFORMATION TO THE STAT-

ISTICAL INFORMATION ALREADY COLLECTED.

# \* REPORT OF ACCUMULATED STATISTICAL INFORMATION \*

202

BY TYPING CONTROL O. THE CONSOLE PACKAGE CAN PRINT THE STATISTICAL INFORMATION COLLECTED PRINT ON THE CONSOLE TELEPRINTER ALL THE STATISTICAL INFORMATION COLLECTED. STARTING THIS PROGRAM AT PROGRAM LOCATION 202 DIRECTS THIS PROGRAM TO

### 4.2 OPERATOR ACTION

FINALLY PRESS " CONT " INUE. ADDRESS LOCATION DESIRED, PRESS " LOAD ADDRESS ", PRESS " CLEAR ", AND CONFIGURE THE ACCUMULATOR SWITCHES TO REPRESENT THE OCTAL PROGRAM STARTING

ON A ACTIVE CONSOLE PACKAGE THE SWITCH REGISTER QUESTION WILL PRINTED. RESPONDING TO THIS QUESTION WILL START THE PROGRAM.

#### 4.3 PROGRAM ACTION

PACKAGE IS ACTIVE. TO CONTINUE REMOVE THE DISKETTE AND REVISION, AND, "REMOVE THE DIAGNOSTIC DISKETTE" IF THE CONSOLE REPLACE WITH A SCRATCH DISKETTE THEN TYPE CONTROL E. THE PROGRAM WILL PRINT ON THE TELEPRINTER THE PRESENT " MAINDEC "

#### \* 200 \*

REGISTER QUESTION. EITHER SET THE SWITCH REGISTER TO THE PROPER DEVICE CODE OR NOW WAIT FOR INPUT FROM THE SWITCH REGISTER OR THE ANSWER TO THE SWITCH IF CONSOLE DEACTIVE. THE PROGRAM WILL DEFAULT TO DEVICE CODE 75 TYPE IN THE PROPER DEVICE CODE, CONTINUING THE PROGRAM VIA THE CONT SWITCH IF THE SWITCH REGISTER IS SET TO ZEPO. THE PROGRAM HAS PRINTED THE RX8 INTERFACE IOT DEVICE CODE AND WILL

EXAMPLE DEVICE CODE IS 76
SET SWITCH REGISTER TO 0760

IF THE DEVICE CODE IS SET TO A EXISTING CONTROLLER THEN THE SELECTED DEVICE CODE IS PRINTED. TO SELECT A DIFFERENT DEVICE CODE FROM THE ONE ALLREADY SELECTED AND VERIFIED BY THE MESSAGE RX8 DEVICE CODE IS 6XXØ, THE PROGRAM MUST BE RELOADED.

\*201\*

TO THE STATISTICAL INFORMATION ALREADY COLLECTED. RESUMED THE FUNCTIONS OF AMMENDING ALL ADDITIONAL STATISTICAL INFORMATION SELECTIONS BY PRINTING APPROPRIATE MESSAGES ON THE TELEPRINTER, AND HAS THE PROGRAM HAS RECONFIRMED PREVIOUS DISKETTE DRIVE AND TEST PARAMATER

202 \*

ISTICAL INFORMATION COLLECTED. THE PROGRAM HAS BEGUN PRINTING ON THE CONSOLE TELEPRINTER ALL THE STAT-

4.4 TEST PARAMETER SELECTIONS

4.4.1 DISKETTE DRIVE

WILL PRINT: " SELECT DISKETTE DRIVES ", AND HALT OR PRINT THE SWITCH REGISTER QUESTION IF THE CONSOLE PACKAGE IS ACTIVE. AFTER STARTING THIS PROGRAM AT STARTING ADDRESS 200, THE PROGRAM

THE OPERATOR WILL THEN CONFIGURE ACCUMULATOR SWITCHES 0, AND 1 TO

REPRESENT DRIVE SELECTION, AND THEN PRESS " CONT " INUE OR IF ON A ACTIVE CONSOLE PACKAGE ANSWERING THE SWITCH REGISTER

QUESTION WILL CONTINUE THE DIAGNOSTIC.

#### ACCUMULATOR SWITCHES

**6** 

U U

- 90 THE OPERATOR DIRECTS THE PROGRAM TO AUTOMATICALLY SELECT ALL DISKETTE DRIVES THAT ARE " READY " (POWER APPLIED, DISKETTE INSERTED, AND DOOR CLOSED)
- 10 SELECT ONLY DISKETTE DRIVE 0
- 01 SELECT ONLY DISKETTE DRIVE 1
- 11 SELECT BOTH DRIVES @ AND 1

Į AS SELECTABLE BY THE PROGRAM MAY DIFFER FROM THE OPERATORS UU SELECTION AS DIRECTED BY THE OPERATORS UU SELECTION. THE DISKETTE DRIVES CONFIRMED H THE PROGRAM DETECTED A DRIVE(S) TO BE " NOT READY ". THE PROGRAM WAS SUCCESSFUL AT ATTEMPTING TO SELECT AT LEAST ONE DRIVE THE PROGRAM WILL PRINT A DISKETTE DRIVE SELECTION COMFIRMATION MESSAGE

ONE DISKETTE DRIVE, WILL PRINT THE MESSAGE: " DRIVES NOT OK-BUT MAINDEC WILL RESTART ", AUTOMATICALLY FESTART ITSELF AT AN ATTEMPT TO SUCCESSFULLY SELECT AT LEAST IF, HOWEVER, ALL DRIVES WERE FOUND TO BE " NOT READY " THEN THE PROGRAM

ECTING AT LEAST ONE DISKETTE DRIVE, THE PROGRAM WILL PRINT THE FOLLOWING MESSAGE AND HALT: THE CONSOLE PACKAGE WILL RESTART. 4 ATTEMPTS AT DRIVE SELECTION, THE PROGRAM HAS BEEN UNSUCCESSFUL AT SEL-THE PROGRAM WOULD MAKE 4 SUCH ATTEMPTS AT RESTARTING ITSELF. IF, AFTER

"DRIVES NOT OK-BUT MAINDEC WILL HALT"

PERTAINING TO THE DATA RELIABILITY OF DISKETTE DRIVES IF ALL DRIVES APE "NOT READY" FOR TESTING. OBVIOUSLY, THIS PROGRAM IS UNABLE TO ACCUMMULATE STATISTICAL INFORMATION

SELECTING A " DISKETTE DRIVE "; THE PROGRAM WILL PRINT THE FOLLOWING 4.4.2 PATTERN, TEST AND SEQUENCE AFTER STARTING THIS PROGRAM AT ADDRESS 200, AND AFTER SUCCESSFULLY

" SELECT PARAMATERS "

MESSAGE AND HALT IF ON CONSOLE PACKAGE WILL PRINT WAITING.

MODE. SWITCH 9 TO REPRESENT 8/12 BIT MODE, SWITCH 10 TO REPRESENT DELETED DATA LECTION, SWITCHES 6, 7, AND 8 TO REPRESENT AN ACTUATOR SEQUENCE SELECTION, PRESENT A PATTERN SELECTION, SWITCHES 3, 4, AND 5 TO REPRESENT A TEST SE-THE OPERATOR WILL THEN CONFIGURE ACCUMULATOR SWITCHES 0, 1, AND 2 TO RE-

THE OPERATOR WILL THEN PRESS " CONT "INUE OR ANSWER THE SWITCH REGISTER QUESTION IF ON CONSOLE PACKAGE.

S W I T C H E S
1 2 3 4 5 6 7 8 9 10 11

PPP TTT SSS M D .

RELIABILITY OF THE RX01 SUBSYSTEM. AND BEGIN ACCUMULATING STATISTICAL INFORMATION PERTAINING TO THE DATA THE PROGRAM WILL PRINT A TEST PARAMATER SELECTION CONFIRMATION MESSAGE

EXECUTION. SET THE SWITCH REGISTER TO THE DESIRED SETTINGS FOUND BELOW. ACTIVE, ENTER THE RUNNING SWITCHES BEFORE THE PROGRAM BEGINS IF THE CONSOLE PACKAGE IS NOT ACTIVE THEN PROGRAM EXECUTION WILL THE SW= QUESTION WILL BE PRINTED NEXT IF THE CONSOLE PACKAGE IS

BEGIN AFTER THE CONFIRMATION MESSAGE IS PRINTED.

SEQ 0010

## OPERATING PROCEDURE

THE OPERATOR MAY CONTROL THE DYMANIC ACTION OF THE PROGRAM BY APPROPRI-

ATELY CONFIGURING THE ACCUMULATOR SWITCHES AS DESCRIBED BELOW.

HALT AT DETECTION OF AN ERROR 4000 HALT AT THE END OF A TEST PASS 2000 (LONG) DATA COMPARISON ERROR PRINTOUT 1000

INHIBIT ERROR PRINTOUTS 400
INHIBIT ERROR RECOVERY ATTEMPTS 200
INHIBIT RINGING OF [BELL] AT ERROR 100
INHIBIT THE ISSUING OF [INIT] AT ERROR 40

DISPLAY WITHIN THE MQ (IF THE PDP HAS AN MQ) THE FOLLOWING RUNTIME DATA:

YX -00 - TARGET TRACK (BITS 0-7) / SECTOR (BITS 8-11)

TEST PARAMATER SELECTION STATUS FROM XDR AT END OF FUNCTION COMMAND WORD TO RXØ1 CONTROL

THE OPERATION OF THIS PROGRAM, BE STOPPED AND STARTED OR RESTARTED WITHOUT THIS PROGRAM MAY, AT THE OPERATORS DISCRETION AND AT ANY TIME DURING

CONSEQUENCE.

## 6.1 PROGRAM DEFINITIONS

•

THIS PROGRAM HAS DEFINED THE FOLLOWING AS ERRORS:

6.1.1 WRITE ERROR

A WRITE ERROR IS A READ ERROR IF THE DATA BEING READ IS OF UNKNOWN

QUALITY (THE DATA BEING READ IS BEING READ FOR THE FIRST TIME AFTER ITS

WRITING) .

6.1.2 READ (CRC) ERROR - (TRANSFER REGISTER STATUS BIT 11 = 1)

A READ ERROR IS A READ ERROR WHERE THE QUALITY OF THE DATA BEING READ

IS KNOWN (THE DATA BEING READ HAD BEEN READ SUCCESSFULLY SOME TIME PRE-

· (ATSnoia

6.1.3 CRC AND DATA ERROR

6.1.4 NO CRC BUT DATA ERROR

THESE DATA ERRORS ARE DETECTED WHEN THE PROGRAM IS VERIFYING THE DATA

THAT " SHOULD HAVE BEEN READ " WITH THE DATA THAT " ACTUALLY WAS READ " BY

COMPARING THE " BAD " COLUMN TO THE " GOOD " COLUMN.

WORD# GOOD BAD

1 (TRACK IDENTIFICATION BITS 5-11)

2 (SECTOR IDENTIFICATION BITS 8-11)

WORDS 3 THRU 62 (IF 12-BIT MODE), OR BYTES 3 THRU 126 (IF 8-BIT MODE) CONTAIN THE OPERATORS PPP SELECTION.

63 (OR BYTE 127) - THE SUM OF ALL WORDS 1 THRU 62 OR BYTES 1 THRU 127.

64 OR (BYTE 128) - THE NEGATIVE OF 2 TIMES THE VALUE OF WORD # 63 OR BYTE # 127.

## 6.1.5.1 SUMCHECK ERROR

DATA COLUMN AND COMPARING THAT SUM TO 0. THE PROGRAM DETECTS A " SUM-CHECK " ERROR BY SUMMING ALL THE ACTUAL (BAD)

THE REASON FOR THE FIRST 2 WORDS/BYTES CONTAINING TRACK / SECTOR

IDENTIFICATION CODES IS TO DETECT ADDRESSING ERRORS.

THE REASON FOR THE LAST 2 WORDS/BYTES CONTAINING CHECKSUM INFORMATION

IS TO DISTINGUISH BETWEEN WHAT MIGHT RESEMBLE AN ADDRESSING ERROR

(IF THE PROGRAM DETECTED AN ERROR WHEN COMPARING THE FIRST 2 WORDS/BYTES)

AND A CRC ERROR.

6.1.6 SEEK ERROR - (NO ALLOCATED TRANSFER REGISTER STATUS BIT)

6.1.7 PARITY ERROR - (TRANSFER REGISTER STATUS BIT 10 = 1) A SEEK ERROR HAS BEEN DEFINED AS " NOT A CRC ", AND " NOT A PARITY " ERROR.

COMMAND WORD FORM THE RX8 INTERFACE TO THE RX01 MICROPROCESSOR CONTROL. A PARITY ERROR IS AN ERROR WHICH RESULTS FROM AN INCORRECT TRANSFER OF THE

THE FOLLOWING CHART REPRESENTS AN OVERVIEW OF WHICH ERRORS MAY BE DETECTED

IN WHICH TEST:

#### ERRORS:

7	0	υ	4	w	N	<b></b>	60	TEST:
	×	×			×	×	×	WRITE
×	×	×	×	×	×	×	×	READ
×	×	×		×	×		×	DATA
		ני		Ľ		₽		SEEK
		٢		1		<b>&gt;</b>		PARITY

```
6.2 DEFINITIVE ERROR CODES
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THE RX01 MICROCONTROLLER HAS DEFINED ERROR CODES AND MEANINGS WHICH ARE

AVAILABLE TO THE PROGRAM BY ISSUING COMMAND #7 TO " READ THE B-CODE ".

DEFINITIVE ERROR CODE REPRESENTS [WHERE] WITHIN A MICRO-FUNCTION

THE ERROR WAS DETECTED.

THE FOLLOWING ARE THE DEFINITIVE ERROR CODES AND MEANINGS:

210 -	200 -	170 -	160 -	150 -	140 -	130 -	120 -	110 -	100 -	70 -	60	50	40	30	20 -	100	5
ALL PARITY ERRORS	DATA CRC ERROR	DATA AM NOT FOUND IN TIME	IDAM NOT FOUND IN TOME	GOOD HEADER(NO CRC ERROR) BUT TRACK COMPARE ERROR	CRC ERROR ON SUPPOSIDLY GOOD HEADER	PREAMBLE FOUND BUT NO ID MARD FOUND IN TIME	A PREAMBLE COULD NOT BE FOUND	MORE THAN 40US AND NO SEP CLOCK DETECTED	WRITE PROTECT ERROR	DESIRED SECTOR NOT FOUND AFTER SAMPLING 52 HEADERS	SELF DIAGNOSTIC ERROR	HOME WAS FOUND BEFORE DESIRED TRACK	TRIED TO ACCESS A TRACK GREATER THAN 77 (DECIMAL)	HOME FOUND WHEN STEPPING OUT 10 TRACKS FROM INIT	DRIVE 1 FAILED TO SEE HOME FROM INITIZLIAE	DRIVE 0 FAILED TO SEE HOME FROM INITIALIZE	NO ERROR

6.3 UNEXPECTED OR MISSING ERROR CONDITIONS

6.3.1 MISSING DD MARK

THIS ERROR MAY OCCUR WHEN THE PROGRAM EXPECTED A DELETED DATA MARK BUT

NONE OCCURED.

6.3.2 UNEXPECTED DD MARK

THIS ERROR MAY OCCUR WHEN THE PROGRAM HAD NOT EXPECTED A DELETED DATA

MARK BUT ONE OCCURED.

6.3.3 MISSING ERROR FLAG

THIS ERROR MAY OCCUR WHEN THE CONTENTS OF THE TRANSFER REGISTER AT DONE

TIME ARE NOT 0, AND THE ERROR FLAG IS CLEARED.

6.3.4 UNEXPECTED RX01 IRQ 

THIS ERROR MAY OCCUR WHEN THE PROGRAM HAS NOT YET ENABLED THE RX8

INTERRUPT ENABLE FLIP-FLOP BUT AN INTERRUPT OCCURED.

6.3.5 DEVICE TEST HUNG 

THIS ERROR MAY OCCUR WHEN THE PROGRAM EXPECTS BUT FAILED TO RECIEVE

PROGRAM INTERRUPT REQUEST FROM THE RX01 SUBSYSTEM WITHIN AN ALLOTTED PERIOD

OF TIME (APPROXIMATELY 4 SECONDS).

6.4 UNKNOWN IRO 

THIS ERROR MAY OCCUR WHEN THE PROGRAM HAS FAILED TO IDENTIFY THE DEVICE

ISSUING A PROGRAM INTERRUPT REQUEST.

ERROR REPORTING

ALL ERRORS DETECTED WILL BE REPORTED IF A S ىن 11 • THE FOLLOWING

INFORMATION IS PRINTED FOR ALL ERRORS DETECTED. THE HEADER LINE IS ONLY

PRINTED FOR THE FIRST ERROR DETECTED WITHIN EACH TEST PASS.

CMND

XDR

CODE

RSTA

START

TARGET

TEST

PASS

CMND COMMAND TO THE RXØ1 MICROCONTROLLER CONTENTS OF THE TRANSFER REGISTER AT ERROR/DONE DEFINITIVE ERROR CODE (VIA COMMAND #7)

XDR CODE RSTA START STARTING TRACK/SECTOR ACTUATOR POSITION

TARGET TARGET TRACK/SECTOR ACTUATOR POSITION TEST PARAMETERS SELECTED

TEST PASS # AT ERROR (TO 16777215 DECIMAL)

# 7.1.1.1 KEY INITIALIZE ERROR

XYY	CMND	
0100	XDR	
0120	CODE	
0200	RSTA	
KEY	START	
	TARGET	
KEY	TEST(X)	
	PASS	

STARTING THE PROGRAM HAD PRODUCED A CONSOLE (KEY) INITIALIZE, AND

THE RX01 CONTROL WAS UNABLE TO FIND THE (HOME) POSITION ON DRIVE 0.

< <b>7 7 7 7 7 7 7 7 7 7</b>	CMND
	_
	CONSOLE [KEY] INITIALIZE
,	_
	KEY]
ť	
,	INI
	Ξ
;	Ξ
,	Ē
•	Η
	(F)
į	

DELETED DATA MARK HAPPENED TO A PREAMBLE COULD NOT BE FOUND DISKETTE DRIVE IS READY ACTUATOR POSITION UNKNOWN BE PRESENT

CODE

START TARGET [HOME] TRACK 1, SECTOR 1

### 7.1.1.2 SEEK ERROR

LINI	9014	CMND
63	0100	XDR
0120	0120	CODE
0200	0300	RSTA
[HOME]	[HOME]	START
[HOME]		TARGET
		TEST(X)
		PASS

A SEEK ERROR OCCURED WHILE TRYING TO " WRITE DELETED DATA " (CMND #14)

## ONTO TRACK 1 SECTOR 1.

TARGET	START	RSTA	CODE	XDR	COMD
•	•	•		•	ŧ
TRACK 1, SECTOR 1	HOME POSITION	DRIVE READY + DELETED DATA	A PREAMBLE COULD NOT BE FOUND	DELETED DATA MARK	WRITE DELETED DATA

THEN THE PROGRAM ISSUED AN INITIALIZE AT AN ATTEMPT TO RECOVER FROM

## THE " SEEK " ERROR.

# 7.1.1.3 WRITE-CRC AND DATA ERROR

TOTAL	SUMCH	σ	υī	4.	WORD	WRITE	0026	CMND
TOTAL BAD=60	SUMCHECK IS 1253	6303	6617	5435	GOOD	-CRC AND	0026 0001	XDR
	253	4606	5437	5473	BAD	DATA ERROR	3200	CODE
						O.R	0201	RSTA
							100,30	START
							100,1	TARGET
								TEST(X) PASS
								PASS

THE PROGRAM EXPANDS THE STANDARD ERROR FORMAT TO INCLUDE DATA COM-WHILE READING SECTOR 7 OF TRACK 100 THE PROGRAM DETECTED A CRC ERROR.

PARISON INFORMATION IF THE TEST IS A DATA COMPARISON TEST.

IF AC SWITCH 2 =1 THEN A [LONG] DATA COMPARISON PRINTOUT WOULD

HAVE OCCURRED OF [ALL] THE WORDS/BYTES IN ERROR.

WAS WRITTEN INCORRECTLY SECTOR 7 HAD NEVER BEEN READ BEFORE, THEREFORE THE PROGRAM ASSUMED IT THE WORD " WRITE " WITHIN THE EXPANSION MEANS THAT THE DATA OF

# 7.1.1.4 READ-CRC AND DATA ERROR

TOTAL BAD=60	SUM-CHECK	σ	Çħ	4	WORD	READ-CRC	0026	CMND
3AD=60	CK IN	6303	6617	5435	6000	C AND	1000	XDR
	1257	5406	5437	5477	BAD	DATA ERROR	0200	CODE
							0201	RSTA
							100,30	START
							100,1	TARGET
								TEST(X) PASS
								PASS

THE PROGRAM EXPANDS THE STANDARD ERROR FORMAT TO INCLUDE DATA COMPARISON WHILE SEEKING SECTOR 1 OF TRACK 100 THE PROGRAM DETECTED A CRC ERROR.

INFORMATION IF THE TEST IS A DATA COMPARISON TEST.

IF AC SWITCH 2 = 1 THEN A [LONG] DATA COMPARISON ERROR PRINTOUT WOULD

HAVE OCCURRED OF [ALL] THE WORDS/BYTES IN ERROP.

THE WORD " READ " WITHIN THE EXPANSION MEANS THAT THE DATA OF

SECTOR 7 HAD BEEN READ SOME TIME PREVIOUSLY, THEREFORE THE PROGRAM

ASSUMES THAT THE DATA WAS WRITTEN CORRECTLY BUT READ INCORRECTLY.

7.1.1.5 WRITE-CRC BUT NO DATA ERROR

WRITE	0026	CMND
•		
CRC	0001	XDR
BUT		
N <sub>O</sub>	020	COD
	0200	
ERROR	0201	RSTA
	100,30	START
	190,1	TARGET
		TEST

X) PASS

A CRC ERROR WAS DETECTED AFTER READING SECTOR 1 OF TRACK 100.

0F SECTOR 1 TRACK 100 HAD NEVER BEEN READ BEFORE THEREFORE THE PROGRAM THE WORD " WRITE " WITHIN THE DATA EXPENSION MEANS THAT THE DATA

A DATA COMPARISON ERROR, IT ASSUMED THAT THE 2 CRC CHARACTERS WERE WRITTEN

ASSUMED IT WAS WRITTEN INCORRECTLY, AND BECAUSE THE PROGRAM DID NOT DETECT

7.1.2 ERROR RECOVERY 

INCORRECTLY.

THE PROGRAM WILL ATTEMPT TO RETRY ALL ERRORING FUNCTIONS 10 TIMES.

RETRYS. AN UNRECOVERABLE ERROR (HARD) IS ONE WHICH REMAINS AFTER 10 A RECOVERABLE ERROR (SOFT) IS ONE WHICH DISAPPEARS WITHIN 10 PROGRAM

PROGRAM RETRYS.

THE PROGRAM WILL ISSUE IOT 67X7 (INIT) FOR ALL ERRORS BUT

DEFINITIVE ERROR CODES 140, 200, AND 210,

140 - CRC ERROR ON SUPPOSIDELY GOOD HEADER 200 - DATA CRC ERROR 210 - PARITY ERROR

THESE ERRORS ARE [NOT] SEEK TYPE ACTUATOR RELATED ERRORS.

IF A HARD WRITE ERROR IS DETECTED THE PROGRAM ABORTS FURTHER TESTING THIS PASS OF THAT TRACK/SECTOP BUT CONTINUES TESTING TRACKS. ON THE REMAINING

HARD WRITE ERROR HAD OCCURRED WITHIN A TEST WHICH WOULD EVENTUALLY READ TEST WAS TO VERIFY THE DATA TO A KNOWN PATTERN. THAT SECTOR AND A SYMPATHETIC HARD DATA COMPARISON ERROR MAY OCCUR IF THAT A SYMPATHETIC HARD READ ERROR MAY OCCUR (PATTERN DEPENDENT) IF THE

7.1.3 FATAL ERROR RECOVERY

THE PROGRAMS RECOVERY WILL BE THAT OF AN AUTOMATIC RESTART. IF THE PROGRAM DETECTS ANY OF THE SUCCEDING FATAL ERROR CONDITIONS,

ACCUMULATED ISSUE AN (INIT) AND EFFECTIVELY RESTART ITSELF FROM THE PROGRAM WILL AUTOMATICALLY DUMP ALL STATISTICAL INFORMATION

RESTART ADDRESS 201.

- HARD PARITY ERROR
- A SELECTED DRIVE BECOMING NOT READY NO EXPECTED RX01 INTERRUPT REQUEST
- MISSING ERROR FLAG
- 966668 LOG OVERFLOW
- DEVICE TEST HUNG.

8. MANUAL INTERVENTION MANUAL INTERVENTION

8.1 FIELD ENGINEERING TROUBLE SHORTING AIDS

IS DESIGNED AS A FIELD ENGINEERING TOOL. THIS PROGRAM, APART FROM THE COLLECTION OF STATISTICAL INFORMATION,

UPON A PARTICULAR AREA [WINDOW] OF THE DISKETTE INSTEAD OF THE ENTIRE MAINTENANCE LOCATIONS, IS ABLE TO DIRECT THE PROGRAM TO PERFORM TESTING THE FIELD ENGINEER, BY ALTERING THE CONTENTS OF SPECIFIC PROGRAM

"OD" (OUTSIDE DIAMETER), PROGRAM LOCATION 30, IS THE INITIAL OUTER-

SURFACE. THESE PROGRAM LOCATIONS ARE LABLED "OD" "ID", "FIRST, AND "LAST".

MOST TRACK THE PROGRAM WILL ACCESS.

"ID" (INSIDE DIAMETER), PROGRAM LOCATION 31, IS THE FINAL INNERMOST

INNERMOST TRACK THE PROGRAM WILL ACCESS.

"FIRST", PROGRAM LOCATION 32, IS THE FIRST SECTOR TO BE ACCESSED

OF A TRACK.

"LAST", PROGRAM LOCATION 33, IS THE LAST SECTOR TO BE ACCESSED

OF > TRACK.

# THE STANDARD ASSEMBLED CONTENTS OF THESE FIELD ENGINEEPING

## MAINTENANCE LOCATIONS ARE:

LAST,	FIRST,	ID,	0D,	
32	<b>-</b>	114	-	*30
/LAST SECTOR OF A TRACK	/FIRST SECTOR OF A TRACK	-3	IL TRACK 1	

THESE ARE THE ONLY FIELD ENGINEERING MAINTENANCE PROGRAM

LOCATIONS DESIGNED TO BE EXTERNALLY ALTERED.

THE PROGRAM WILL PRINT A MAINTENANCE VERIFICATION MESSAGE

IF THE CONTENTS OF THE MAINTENANCE LOCATIONS ARE NOT THE ASSEMBLED

STANDARD

THE OCTAL CONTENTS OF THESE MAINTENANCE LOCATIONS MUST BE

WITHIN THE RESTRICTED LIMITS WHICH ARE:

0 <= OD <= ID 0 <= ID <= 114 1 <= FIRST <= LAST 1 <= LAST <= 32

THE PROGRAM VERIFIES THE CONTENTS OF EACH MAINTENANCE LOCATION. THE

PROGRAM WILL SET INTO THE MAINTENANCE LOCATION THE STANDARD VALUE IF THE

DESIRED CONTENTS WERE NOT WITHIN THE REQUIRED SPECIFIED LIMITS.

NOTE, THAT TRACK 0 IS NOT INCLUDED WITHIN THE STANDARD [WINDOW]

OF TESTABLE TRACKS. THE REASONE FOR THIS IS NOT TO INADVERENTLY DESTROY

THE FORMATTED CONTENTS OF TRACK 0.

TO EXPAND THE WINDOW OF TESTABLE TRACKS INCLUDING TRACK 0, THE CONTENTS

OF PROGRAM LOCATIONS " OD " MUST BE ZERO.

IN SUMMARY, IF THE CONTENTS OF PROGRAM LOCATIONS OD, ID, FIRST,

AND LAST WERE 30, 30, 1, 1, RESPECTIVELY, THE PROGRAM WOULD PERFORM

SELECTED TESTING ONLY UPON TRACK 30, SECTOR 1.

SELECT A TEST THAT WILL WRITE-READ-AND VERIFY THE DATA THEREBY INSURING THE QUALITY OF DATA PRIOR TO THE DISKETTE SWAP.

SELECT TEST 0 OR TEST 2.

ANY SEQUENCE WILL ACHIEVE THE FIRST OBJECTIVE.

- B. CONFIGURE OPERATIONAL CONSOLE SWITCH 1 = 1 (TO HALT THE PDP AT THE COMPLETION OF 1 PASS). THIS IS TO INSURE THE DATA PATTERN IS NOT FRESHENED (APPLICABLE TO RANDOM DATA SELECTION).
- C. PHYSICALLY SWAP THE DISKETTE MEDIA RESIDING WITHIN DISKETTE DRIVE 1.
- D. SELECT A TEST THAT WILL READ-AND VERIFY THE DATA (THIS IS THE COMPATABILITY TEST).

SELECT TEST 7 IF TEST 0 WAS SELECTED AT (A), OR SELECT TEST 3 IF TEST 2 WAS SELECTED AT (A).

THE PATTERN SELECTION MUST BE EQUIVALENT TO THE PATTERN SELECTED AT (A), THE SEQUENCE MAY NOT.

9. PARAMETER DESCRIPTION

9.1 PATTERN (PPP) DESCRIPTIONS

9.1.1 RANDOM (PPP=0)

A FRESH RANDOM PATTERN WILL BE GENERATED AT THE END OF EACH PASS.

9.1.2 PATTERN 1 - ALL 1'S

9.1.3 PATTERN 2 - 00110011

9.1.4 PATTERN 3 - 11001100

9.1.6 PATTERN 5 - 01010101

9.1.7 PATTERN 6 -

9.1.8 PATTERN 7 - ALL 0'S

```
9.2 TEST (TTT) DESCRIPTIONS
```

AND WITH AN ACTUATOR MOVEMENT SPECIFIED BY THE SEQUENCE (SSS) SELECTION A DATA PATTERN SPECIFIED BY THE PATTERN (PPP) SELECTION, (PARAGRAPH 9.1) (REFER TO PARAGRAPH 8 ) " OD ", " ID ", " FIRST ", AND " LAST ", WITH BY THE CONTENTS OF THE FIELD ENGINEERING MAINTENANCE PROGRAM LOCATIONS ALL TESTS EXERCISE ONLY THAT SURFACE [WINDOW] OF THE DISKETTE SPECIFIED

# 9.2.1 ACCEPTANCE TEST (TTT=0)

PARAGRAPH 9.3).

ALL THE DESIGN FEATURES OF THE RX8/RX01 SUBSYSTEM EXPEDIENTLY. THIS TEST HAS BEEN LABLED THE ACCEPTANCE TEST BECAUSE IT EXERCISES

EACH TRACK FROM " OD " TO " ID ". WRITE-READ-AND PROGRAM VERIFY EACH SECTOR FROM " FIRST " TO " LAST " OF AND WITH AN INCREMENTAL ACTUATOR MOVEMENT SEQUENCE, THIS TEST WILL FIRSTLY, WITH DATA SPECIFIED BY THE PATTERN SELECTION (PARAGRAPH 9.1),

SELECTION (PARAGRAPH 9.3), THIS TEST WILL REREAD THE TRACKS AND SECTORS PREVIOUSLY WRITTEN. THE DEFAULT PATTERN SELECTION IS RANDOM AND THE DEFAULT ACTUATOR MOVEMENT SEQUENCE SELECTION IS RANDOM. SECONDLY, WITH AN ACTUATOR MOVEMENT SPECIFIED BY THE SEQUENCE

(8/12 BIT MODE, AND DELETED DATA), THIS TEST WILL ALTERNATELY EXERCISE EACH FEATURE, REGULATED BY THE VALUE OF THE " TARGET " TRACK POSITION. IF THE VALUE OF THE TARGET TRACK IS " X " THEN THE DESIGN FEATURE UNDER TO EXPEDIENTLY TEST ALL THE DESIGN FEATURES OF THE RX8/RX01 SUBSYSTEM

5	4	3	2	1.	0		×	
		8-BIT MODE WITH DELETED DATA	8-BIT MODE	12-BIT MODE WITH DELETED DATA	2-BIT M	4555845558888888	Y	

--6 --7

(ETC.)

TEST IS " Y ".

```
9.2.6 TEST 5 - WRITE ONLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ELETED DATA AS SPECIFIED BY THE " D " SELECTION, (PARAGRAPH 9.5).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9.2.7 TEST 6 - WRITE/READ/PROGRAM VERIFY DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9.2.5 TEST 4 - READ ONLY
                                                                                                                                                                                  9.3 SEQUENCE (SSS) DESCRIPTION
                                                                                                                                                                                                                                                                                                                                         9.2.8 TEST 7 - READ-PROGRAM VERIFY
                                                                                                                                                                                                                                                                                                                                                                                                                                    SECTORS PREVIOUSLY WRITTEN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SELECTION, (PARAGRAPH 9.3), THIS PROGRAM WILL REREAD THE TRACKS AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MODE AS SPECIFIED BY THE " M " SELECTION, (PARAGRAPH 9.4), WITH OR WITHOUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               THIS TEST WILL WRITE, READ, AND PROGRAM VERIFY DATA IN 8 OR 12 BIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OR 12-BIT MODE, (PARAGRAPH 9.4), WITH OR WITHOUT DELETED DATA, (PARAGRAPH 9.5).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9.2.4 TEST 3 - READ/PROGRAM VERIFY DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9.2.3 TEST 2 - WRITE/READ/PROGRAM VERIFY DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9.2.2 TEST 1 - WRITE/READ
9.3.1 RANDOM (SSS=0)
                                                            SPECIFIED BY THE OUTSIDE DIAMETER (OD) AND INSIDE DIAMETER (ID) PARAMETERS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TEST 3 IS THE COMPATABILITY COUNTER PART TO TEST 2.
                                                                                                                                                                                                                                                                               TEST 7 IS THE " COMPATABILITY COUNTERPART " OF TEST 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SECONDLY, WITH AN ACTUATOR MOVEMENT SPECIFIED BY THE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FIRSTLY, WITH AN INCREMENTAL ACTUATOR MOVEMENT SEQUENCE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            THE AFFORE MENTIONED TESTS WILL PERFORM THE DESCRIBED FUNCTIONS USING 8-
                                                                                                                        THE SEQUENCE GENERATOR SELECTS A TARGET TRACK WITHIN THE WINDOW
```

BETWEEN OD AND ID.

THE SEQUENCE GENERATOR WILL RANDOMLY SELECT A TARGET TRACK

9.3.2 SEQUENCE 1 - INCREMENTAL

THE SEQUENCE GENERATOR WILL SELECT A TARGET TRACK COMMENCING

WITH "OD", IN INCREMENTS OF 1 TO "ID".

9.3.3 SEQUENCE 2 - DECREMENTAL

THE SEQUENCE GENERATOR WILL SELECT A TARGET TRACK COMMENCING

WITH "ID" IN DECREMENTS OF 1 TO "OD".

9.3.4 SEQUENCE 3 - INCREMENTAL/DECREMENTAL

FIRST REFER TO PARAGRAPH 9.2.2, THEN REFER TO PARAGRAPH 9.2.3.

9.3.5 SEQUENCE 4 - BOUNCE ID TO OD

THE SEQUENCE GENERATOR WILL SELECT A TARGET TRACK EQUIVALENT

TO THE VALUE OF "ID" OR "OD" AND BOUNCE TO "ID" TO "OD".

9.3.6 SEQUENCE 5 - DECREMENTAL/INCREMENTAL BOUNCE.

THE SEQUENCE GENERATOR WILL SELECT A TARGET TRACK EQUIVALENT

TO THE VALUE OF "ID" OR "OD" AND BOUNCE TO "ID" THEN TO "OD".

THEN THE SEQUENCE GENERATOR WILL SELECT A TARGET TRACK EQUIVALENT

TO THE VALUE OF "ID-1" OR "OD+1" AND BOUNCE, ETC.

9.3.7 SEQUENCE 6 - STROBE

THE SEQUENCE GENERATOR WILL SELECT A TARGET TRACK EQUIVALENT

TO THE VALUE OF "ID" OR "OD", AND BOUNCE TO "ID" THEN TO "OD".

THEN THE SEQUENCE GENERATOR WILL SELECT A TARGET TRACK EQUIVALENT

TO "ID-1" OR "OD" AND STROBE ETC.

9.4 8/12 BIT MODE DESCRIPTION (M)

THE PATTERN GENERATOR WILL ASSEMBLE A PATTERN OF 64 TWELVE BIT WORDS

(IF M = 0), OR 128 EIGHT BIT BYTES (IF M = 1 ).

9.5 DELETED DATA DESCRIPTION (D)

THE SELECTEDIEST WILL WRITE WITH DELETED DATA, OR READ EXPECTING

DELETED DATA (IF D=1).

CONSOLE PACKEGE 

10.

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10.1. ABSTRA

THE CONSOLE PACKAGE HAS BEEN ADDED TO THIS DIAGNOSTIC TO ALLOW THE PROGRAM TO RUN WITH NO HARDWARE SWITCH REGISTER AND TO HAVE COMMUNICATIONS WITH THE DIAGNOSTIC VIA A TERMINAL.

THE DIAGNOSTIC CAN BE RUN IN TWO MODES WITH THE CONSOLE

THE DIAGNOSTIC CAN BE RUN IN TWO MODES WITH THE CONSOLE PACKAGE . 1) RUNNING WITH THE CONSOLE PACKAGE ACTIVE THIS ALLOWS THE OPERATOR CONTROL OF THE DIAGNOSTIC THROUGH
THE TERMINAL. THE DIAGNOSTIC WILL ASK FOR THE VALUE OF THE PSEUDO SWITCH REGISTER, BEFORE COTINUING WITH EXECUTION OF THE DIAGNOSTIC ALL ERROR WILL BE PRINTED ON THE TERMINAL AND THE NUMBER OF PASSES WILL BE PRINTED. THERE WILL BE NO HALTS EXECUTIED.

2) CONSOLE PACKAGE NOT ACTIVE-THIS WILL RESULT IN THE USE OF HALTS FOR ERROR, HALTS AT END OF PASS IF SELECTED, USE OF THE HARDWARE SWITCH REGISTER, NOT ASKING THE SWITCH QUESTION.

10.2. REQUIREMENTS

10.2.1 STORAGE

THIS PACKAGE CAN RESIDE IN ANY PART OF CORE.

10.3. RESTRICTIONS

 RUNNING THE CONSOLE PACKAGE REQUIRES THAT THE PSEUDO SWITCH REGISTER BE USED.

2) ONCE RUNNING THE CONSOLE PACKAGE NONACTIVE AND NOW DESIRE TO RUN IT ACTIVE. ONE MUST RELOAD THE DIAGNOSTIC

AND INITILIZE FOR A ACTIVE CONSOLE PACKAGE.

10.4. STANDARD OPERATION PROCEDURE

10.4.1 INITIALIZATION

FOR A ACTIVE CONSOLE PACKAGE

FOR A ACTIVE CONSOLE

1.) LOAD ADDRESS 0021

2.) SET SR0=0 INDICATOR FOR USING THE PSEUDO SWITCH REGISTER

3.) LOAD ADDRESS 0022

4.) SET SR3=1 INDICATOR FOR USING A ACTIVE CONSOLE PACKAGE

.) LOAD STARTING ADDRESS OF PROGRAM AND BEGIN

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_
5
LOAD
C
Α
ö
2
ADDRESS
2
0021
_

- 2.) SET SR0=1 TO INDICATE A HARDWARE SWITCH REGISTER
- 3.) LOAD ADDRESS 0022
- 4.) SET SR3=0 TO INDICATE A DEACTIVE CONSOLE PACKAGE
- 5.) 'LOAD STARTING ADDRESS OF PROGRAM AND BEGIN

## 10.4.2 CONTROL CHARACTERS

CONTROL CHARACTERS ARE USED TO GIVE THE OPERATOR THE ABILITY TO PERFORM THE FOLLOWING FUNCTIONS.

NOTE: THE PROGRAM WILL RESPOND TO THE CONTROL

CHARACTER IN FIVE (5) SECONDS OR LESS.

CONTROL C
THIS WILL START THE LOADER THAT IS
IN LOCATION 7600.

THIS WILL RESTART THE PROGRAM AND REASK THE SWITCH REGISTER QUESTION AND THE REMAINNING SET UP QUESTIONS.

CONTROL E
THIS WILL CONTINUE THE PROGRAM FROM A ERROR IF ALLOWED BY THE DIAGNOSTIC OR FROM A WAITING STATEMENT.

CONTROL O
THIS CONTROL CHARACTER WILL
TYPE OUT THE STATISTICAL REPORT

CONTROL S

THIS WILL INHIBIT PRINTING AND NOT DISPLAY

THIS WILL NOT EFFECT THE PROGRAM BUT NO

PRINTOUT WILL BE SEEN. TO GET PRINTS OUT

TYPE CONTROL Q

THIS IS TO CONTINUE A PROGRAM AFTER A CONTROL S IS TYPED THIS IS A NONPRINTING CHARACTER.

CONTROL 0

TO MAKE A DECISION AS TO WHAT CONTROL CHARACTER
TO TYPE, THIS MESSAGE MAY APPEAR AT THE END
OF PASS MESSAGE IF THE HALT ON ERROR BIT IS SET.THE CONTROL CHARACTERS MAY NOW BE USED TO PERFORM THE NEEDED FUNCTION. THE WAITING MESSAGE IS USED TO ALLOW THE OPERATOR TIME

CHARACTERS MAY BE USED. THE WAITING MESSAGE MAY BE PRINTED IF OPERATOR INTERVENTION THE WAITING MESSAGE MAY BE PRINTED AFTER A ERROR MESSAGE IF THE HALT ON ERROR BIT IS SET. HERE AGAIN THE CONTROL

SWITCH REGISTER MESSAGE

10.4.4

IS REQUIRED..

THIS MESSAGE IS USED TO SETUP THE PSEUDO SWITCH REGISTER BEFORE PROGRAM EXECUTION TAKES PLACE, THE SWITCH REGISTER IS SETUP WHEN THE FOURTH CHARACTER IS ENTERED OR A CARRIAGE RETURN IS TYPED. 

SR#0000 4000

UNDER SCORING INDICATES OPERATOR RESPONCE

END OF PASS

10.4.5

A PASS WILL BE A TIME PERIOD RATHER THAN A PROGRAM PASS OF THE DIAGNOSTIC. THE TIME PERIOD WILL BE IN THE RANGE OF ONE (1) TO FIVE (5) MINUTES. IF THE DIAGNOSTIC MAKES A PROGRAM REFLECT MORE THEN ON PROGRAM PASS.

THE NUMBER OF PROGRAM PASSES REQUIRED FOR A PASS MESSAGE CAN BE FOUND IN LOCATION CALLED "CNTVAL". SUCESSFULL PASS. THE PRINT OUT WILL INDICATE THE DIAGNOSTIC MAINDEC NUMBER THE WORD PASS AND A FOUR DIGIT PASS NUMBER. A INDICATION WILL BE GIVEN WHEN THE DIAGNOSTIC HAS MADE A PASS IN THE 1 TO 5 MINUTE RANGE THEN THE PASS COUNT WILL BE THE SAME AS THE NUMBER OF PROGRAM PASSES. IF THE PROGRAM MAKES A PROGRAM PASS IN LESS THEN ONE MINUTE THEN THE PASS COUNT WILL NOT BE THE SAME AS THE PASS COUNTER THE PASS COUNTER WILL

PRINTED AND A WAITING STATEMENT WILL ALSO BE PRINTED. A CONTROL CHARACTER IS NEEDED TO CONTINUE FROM THIS MESSAGE. IF HALT AT END OF PASS IS SET THEN THE PASS MESSAGE WILL BE

NAME PASS 0001(\* OF A - )

10.5. ERRORS

UPON DETECTION OF A ERROR THE DIAGNOSTIC WILL DO ONE OF THE FOLLOWING OPERATIONS:

1.) PRINT OUT THE STANDARD CONSOLE PACKAGE ERROR MESSAGE (SEE SECTION 5.2 FOR FORMAT.). THE PROGRAM WILL THEN CHECK THE SWITCH SETTING AND IF HALT ON ERROR IS SET, THE MESSAGE WAITING WILL BE PRINTED. THE OPERATOR MUST ENTER A CONTROL CHARACTER TO CONTINUE ON. IF THE HALT ON ERROR BIT IS NOT SET THEN THE PROGRAM WILL CONTINUE ON AFTER THE ERROR MESSAGE IS PRINTED.
2.) PRINT THE ERROR MESSAGE FOR THE PARTICULAR ERROR CONDITION AND NOT THE STANDARD ERROR MESSAGE, A CHECK OF THE SWITCH REGISTER WILL BE MADE TO DETERMIND IF THE PROGRAM SHOULD CONTINUE RUNNING AFTER THE ERROR MESSAGE OR PRINT WAITING. REFERE TO THE LISTING AT THE LOCATION PRINTED IN THE ERROR PC FOR THE CAUSE OF THE ERROR.

10.5.1 ERROR HALTS

CONSOLE PACKAGE DEACTIVE WILL CAUSE NO ERROR MESSAGE
TO BE PRINTED.A HALT WILL REPLACE THE ERROR CALL IN THE
CODE AND THE DIAGNOSTIC WILL THEN GO TO THAT HALT.
REFER TO THE LISTING FOR THE CAUSE OF THE ERROR, THE ERROR
LOCATION WILL BE THE SAME IF THE CONSOLE PACKAGE WAS ACTIVE.

10.6 SWITCH REGISTER SETTINGS

THE FOLLOWING SWITCH REGISTER SETTINGS ARE USED BY THE CONSOLE PACKAGE. THESE SWITCH REGISTER SETTINGS ARE VALID WHEN USING THE HARDWARE SWITCH REGISTER AND THE PSEUDO SWITCH REGISTER.

10.6.1 OPERATING SWITCHES

THE CONSOLE PACKAGE USES THE LOCATIONS 20 21 22 FOR THE FOLLOWING PURPOSES.

LOCATION 20 PSEUDO SWITCH REGISTER

LOCATION 21 HARDWARE IDENTIFIER 1

LOCATION 22 HARDWARE IDENTIFIER 2

SEQ 0029

OCTAL VALUE	FUNCTION WHEN 0	FUNCTION WHEN 1
4000	USE PSEUDO SWITCHES	USE HARDWARE SWITCHES
2000	NO OPTION 1	HAS OPTION 1
1000	NO OPTION 2	HAS OPTION 2
400	NO 8A SIMULATOR	HAS 8A SIMULATOR
200	NO OPTION SIMULATOR	HAS OPTION SIMULATOR
100	NOT ON 8A XOR	ON 8A XOR
40	NOT PDP8-E TYPE CPU	PDP8-E TYPE CPU
	8A MEMORY SIZE EX. 1K=00 2K=01 7K=06 32K=31	31
N 0022		
OCTAL VALUE	FUNCTION WHEN 0	FUNCTION WHEN 1
4000	NOT ON ACTEA LINE	ON ACT 8A LINE
2000	NOT ON ACT BE LINE	ON ACT BE LINE
1000	NOT YET DEFINED	
400	DEACTIVE CONSOLE PACKAGE	ACTIVE CONSOLE PACKAGE
	9 9 1 N 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VALUE  FUNCTION WHEN 0  USE PSEUDO SWITCHES  NO OPTION 1  NO OPTION 2  NO OPTION SIMULATOR  NOT ON 8A SIMULATOR  NOT PDP8-E TYPE CPU  8A MEMORY SIZE EX.  VALUE  FUNCTION WHEN 0  NOT ON ACT8A LINE  NOT ON ACT8A LINE  NOT YET DEFINED  DEACTIVE CONSOLE  PACKAGE

THESE ARE THE SWITCH REGISTER SETING THAT THE CONSOLE PACKAGE WILL RECCOGNISE.

10-11	σ.	UI	•	ω	<b>N</b>	-	9 1 1
DISPLAY IN	40	100	200	400	1000	2000	OCTAL VALUE
ě.							1 (F)
IF PRESENT 00=TARGET SECTOR	ISSUE [INIT] AT ERROR	RING BELL AT ERROR	MAKE ERROR RECOVERY	PRINT ERRORS	SHORT ERROR PRINT	CONTINUE AFTER TEST	FUNCTION WHEN 0 CONTINUE AFTER ERROR
ET TRACK BITS0-7 OR BITS 8-11	DO NOT ISSUS [INIT] AT ERROR	NO BELL RINGING ON ERRORS	NO ERROR RECOVERY	NO ERROR PRINT OUTS	LONG DATA COMPARISON ERROR PRINT OUT	STOP AT END OF TEST	FUNCTION WHEN 1

01=TEST PARAMETER SECTION

10=STATUS OF XDR AT END OF FUNCTION

11=COMMANDWORD TO RX01
CONTROL

#### 10.7. LOCATION CHANGES

THE FOLLOWING LOCATIONS CAN BE CHANGED TO MEET THE SPECIFIC NEED FOR MODIFICATION OF THE DIAGNOSTIC.

IS THE LOCATION FOR THE VALUE OF THE NUMBER OF PROGRAM PASSES NEED TO PRINT THE END OF PASS MESSAGE.

CNTVAL

FILLER

IS THE LOCATION SET FOR THE NUMBER OF FILLER CHARACTERS AFTER A CRLF SET TO FOUR (4)

SEQ 0032

THE DIALOG FOR THIS DIAGNOSTIC IS:

R DIRXB (CR)

MAINDEC-08-DIRXB-B

/THE -B IS THE REVISION LEVEL

REMOVE THE DIAGNOSTIC DISKETTE

/TO CONTINUE WITH THE DIAGNOSTIC /TYPE CONTROL E

/PAUSE FOR ABOUT 5 SECONDS//

RX8 DEVICE CODE IS SR=0750

6750

DEVICE CODE IS SET TO 75

/THIS VERFIES THAT THERE IS A
/RX8 WITH DEVICE CODE 75

SELECT DISKETTE DRIVES

SR=0750 0000

TEST BOTH DRIVES

/TELL WHICH DRIVES WERE READY

SELECT TEST PARAMATERS:

DRIVES SELECTED 0,1

SR=0000 0000

SR#0000 6000

TEST PARAMATERS: 0

/SET SWITCH SETTINGS TO STOP ON ERROR /AND AT END OF PASS
/THE DIAGNOSTIC IS NOW RUNNING

11.1

DESCRIPTION

1010111111

TWO INTERFACES HAVE BEEN PROVIDED WHICH WILL ALLOW THIS DIAGNOSTIC TO RUN UNDER THE STANDARD APT-8 SYSTEM. THESE INTERFACES ARE:

- 1. TIMING INTERFACE
- 2. ERROR INTERFACE

EACH WILL BE EXPLAINED IN MORE DETAIL.

SETUP

11.2

IN ORDER TO RUN UNDER APT-8, ADDRESSES 20 AND 22 MUST BE ESTABLISHED PRIOR TO RUNNING THE PROGRAM UNDER APT-8 CONTROL. THE FOLLOWING INFORMATION MUST BE INDICATED:

- 1. DEVICE CODE OF RX01 CONTROLLER UNDER TEST.
- 2. SINGLE OR MULTIPLE DRIVE TESTING.
- 3. DRIVE OR DRIVES TO BE TESTED.
- 4. DIAGNOSTIC RUNNING UNDER THE APT-8 SYSTEM.

ADDRESS 20 (PSEUDO SWITCH REGISTER)

ADDRESS 20 IS USED TO INDICATE THE DEVICE CODE OF THE RX01 UNDER TEST. ENTER THE DEVICE CODE IN BIT POSITIONS 3-8.

EXAMPLE: 0750 DEVICE CODE 75 IS INDICATED BY THE PREVIOUS STATEMENT.

NOTE: IF MORE THAN ONE DEVICE CODE IS AVAILABLE ON THE SYSTEM THE DIAGNOSTIC WILL HAVE TO RELOADED AND THE PROPER DEVICE CODE SELECTED.

ADDRESS 22 (HARWARE IDENTIFIER 2) ------

THIS ADDRESS IS USED TO INDICATE THAT THE PROGRAM IS RUNNING ON APT-8, THE NUMBER OF DRIVES TO BE DONE, AND IF SINGLE DRIVE TESTING.

BIT ZERO MUST BE A ONE (1) TO INDICATE THAT THE DIAGNOSTIC IS RUNNING ON APT-8.

IF SINGLE DRIVE TESTING BIT 5 MUST BE A ONE WITH BIT 11 INDICATING WHICH DRIVE TO DO. IF BIT 11 IS A ONE, DRIVE ONE WILL BE EXERCISED. IF BOTH IF BIT 11 IS A ZERO, DRIVE ZERO WILL BE EXERCISED. IF BOTH DRIVES ARE TO BE EXERCISED, BIT 5 SHOULD BE SET TO A ZERO AND BIT 11 SET TO A ONE. THIS WILL EXERCISE BOTH DRIVES. IF BIT 11 BIT 11 SET TO A ONE. THIS WILL EXERCISE BOTH DRIVES. IS SET TO A ZERO, THE PROGRAM WILL AUTOMATICALLY DETERMINE THE NUMBER OF DRIVES TO BE DONE. IT IS RECOMMENDED THAT THE FORMER METHOD BE USED. THIS WILL ELIMINATE ANY POSSIBILITY THAT ONE OF THE DRIVES MAY NOT BE FUNCTIONING.

- 1.3 APT-8 INTERFACES.
- 11.3.1 TIMING

APT-8 IS NOTIFIED OF PROGRAM RUN BETWEEN .2 SECONDS AND 2.0 SECONDS. THIS WILL ALLOW THE DIAGNOSTIC TO RUN UNDER THE MUCH SLOWER MOS MEMORY WITHOUT CAUSING APT-8 TO GIVE A TIMEOUT ERROR.

11.3.2 ERRORS

ONLY THE ERROR PC IS REPORTED TO APT-8. THE TYPE OF ERROR CAN BE DETERMINED FROM THE CORRESPONDING ADDRESS IN THE PROGRAM LISTING. THERE IS A POSSIBILITY THAT A TIMEOUT ERROR MAY OCCUR. THIS IS CAUSED BY THE ERROR "HUNG DEVICE", THE PROGRAM WILL HAVE TO BE RERUN IN DUMP MODE IF THIS SHOULD HAPPEN.

11.4 LOADING PRECAUTIONS

THIS PROGRAM SHOULD BE LOADED IN SRCIPT MODE INDICATING TO APT-8 THAT CORE SUMCHECKS ARE TO BE IGNORED.

PROGRAM LISTING

12.

SEQ 0036

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                         /CONSOL SRC-VIR3- CONSOL PACKAGE
456789012345678901234567890123456789012345678901234565555555555
                                        /SET UP A LAS TO BE EQUALL TO THE CALL CECKSW
                                         /PROGRAM SHOULD CHECK FOR A CONTROL CHARACTER FROM THE CONSOL /EVERY FIVE SECONDS OR LESS
                                        /SETUP CNTVAL FOR A RANGE OF 1 TO 4 MINUTES FOR CSPASS TO PRINT PASS /SETUP OF CNTVAL WILL BE FOUND IN CSPASS
                                        /SET UP XDOSW AS THE VALUE NEEDED FOR A RETURN FOR CONTROL R /RETURN TO ASK THE SWITCH REGISTER QUESTION, FIELD 1
                        8091
                                                        PSKF=
PCLF=
PSKE=
PSTB=
PSIE=
                                                                         6661
6662
6663
6664
6665
                        6661
6662
6663
6664
6665
6004
7501
6007
7421
                                                         GTF=
HQA=
CAF=
HQL=
                                                                         6994
7591
6997
7421
                        8288
                                                         *200
                                         /THIS IS CALLED AT THE END OF EACH PROGRAM COMPLETION
/THE VALUE OF ** CNTYAL** WILL BE DETERMINED BY THE TIME IT TAKES
/THE PROGRAM TO COMPLEATE THIS MANY COPASS TO BE IN THE 1 TO 4 MINUTE
                                         /RANGE
                                         /RANGE
/ C8PAS8=JMS XC8PA8
/EX. C8PASS
/ HLT /HALT IF NON CONSOL PACKAGE
/ JMP START! /CONTINUE RUNNING THIS PROGRAM
/RETURN TO LOCATION CALL PLUS ONE WITH THE ACSS IF NON CONSOL PACKAGE AND HLT
/IF CONTINUE TO RUN THEN RETURN TO CALL PLUS2 ACSS
                       0000
4777,
5210
4272
0376
7640
5236
                                        XCSPAS, Ø
JMS
JMP
JMS
AND
SZA CLA
            0200
0201
0202
0203
                                                                                                           /CHECK LOCATION22
/IS CLASSIC
/CHECK SR SETTING
/FOR HALT ON END OF CSPASS
/I= HALT O CONTINUE
/COMMON EXIT
                                                                         CBCK22
DOPACK
XCBSW
(400
            0204
0205
0206
                                                                         CSEXTI
                                                         JMP
```

/RX8 DATA	RELIA	B1LITY/E					V142A	9-JUN-76	16:55	PAGE 1	. <b>-1</b>
56	0207	5235		JMP	C8BY1 CKCOUT C8BY1 PASCNT	•	/CONTING	JE ON RUNNING	PROGRAM		
57		4249	DOPACK,	JMS	CKCOUT			HECK COPASS			
56		5235		JMP	CKCOUT C8BY1 PASCNT			COUNT NOT DO		GRAM	
59		2257		152	PASCNT			COUNT DONE &			
60		4775*		JMS	XCSCRL		/CRLF				
61	9214			JMS	XCSPNT			/CSPRNT BUFF	ER		
62		0263		MESPAS			/		-•-		
63	0216	6201		CDF Ø							
64	0217	1660		TAD I	XPASSES		/GET NU	4BER			
65	0220	6211		CDF 10							
66	Ø221	4774"		JMS	XCOOCT			/PRINT OCTAL	ONLY.		
67	0222	6201		CDF Ø							
68	.0223	1655		TAD I	XMX		/GET THE	CHAR IN FLD	0		
69	<b>0224</b>	6211		CDF 10					**		
70	<b>0225</b>	3240		DCA	CKCOUT						
71	Ø226	4322		JMS	XCSPNT						
72	0227	6240		CKCOUT							
73		4775"		JMS	XCOCRL			/DO A CARRIA /CHECK A HAL	GE RETURN		
74	0231	4272		JMS	XCBSW			/CHECK A HAL	T AT END OF	COPASS	l .
75	0232			AND	(499		/MASK B	[T			
76		7640		SZA CLA			/HA1.9 =	NO SKIP CON	TINUE =0		
77	0234	4773"		JMS	XCBSW (400 XCBING XCBPAS			/STOP PROGRA		I-LOOK P	OR INPUT
78	0235	2200	CSBY1,	ISZ	XCSPAS		/BUMP R	ETURN			
79	Ø236	6203	CSEXT1,	CDF CIF	99				•		
80	0237	5600		JMP I	XCOPAS						
81	Ø24Ø	0000	CKCOUT,	ø							
82	0241	1261		TAD	DOSET			IF BET UP NEE			
83	0242	7640		SZA CLA				UP COPASS COU			
84							/1=C8PA	58 COUNT VALU COUNT VALUE	E OK		
95		5250		JMP TAD	NOSET						
B6	Ø244			TAD	CHTVAL		/GET CO	UNT VALUE FOR	THIS PROG		
87		7840		CMA	DOCNT DOSET DOCNT C8BY1 DOSET			NEGATIVE			
88	9246	3256		DCA	DOCNT		/STORE	IN HERE	_		
. 69		2261		ISZ	DOSET		/INDICA	TE VALUE SET	UP _		*
90 91	0250	2256	NOSET,	152	DOCNT			the number of			
92	0221	2232		JMP DCA	CARLI			OR ANOTHER PA			
93	0232	3201		TO 2	CKCOUT			COPRNT COPAS	8		
94	B253	5235 3261 2240 5640		182	CKCOUT			ETURN FOR			
95	0234 0255	2134	XMX,	OWS I	CKCOOT		/CSPASS	CSTYPE OUT			
96		8888									
97		8888	DUCKI,	9				THE NUMBER IN			
98		6350	YDICCE!				455745				
99		8000	DOSET,	, a	PABSES		VEKTAT .	THE NUMBER IN	FLD B		•
100		8000	CNACT!	D 0							
101	0263		WEED!-	P ***	*DIRXB+						
101		2230	neora5;	TAAT	-DIKY#+[	PA55 "					
	0264 0265										
	9266	2661									
		2323									
		4000									t
400	2211	4000	4								

/CBCKSW

```
SEQ 0037
                                                                                      PAL10 V142A 9-JUN-76
                                                                                                                                               16:55 PAGE 1-2
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                          /ROUTINE THAT WILL CHECK WHERE TO READ THE
/C8 SWITCHES FROM IE, FROM PANEL OR PSEUDO C8SWIT REGISTER
/ C8CKSW# JMS XC8SW
/EX C8CKSW /READ THE C8SWIT REGISTER
     106
                                                                                      OW

/READ THE COSWIT REGISTER

/RETURN WITH THE CONTENTS OF SWITCH REGISTER
     107
     109
     110
                                           PRETURN TO NEXT LOCATION FOLLOWING CALL WITH THE AC= TO VALUE OF CASUIT SETTING
     112
                            0000
7200
4772
7000
6201
                 Ø272
Ø273
                                           XC8SW.
                                                         CLA
JMS
NOP
                                                                                                     /CLEAR AC /CHECK FOR CONTROL CHARACTER!
     115
                                                                        XCBCKP
                  8274
     117
                                                          CDF 00
TAD I
                  0276
                            1771
                  0277
                                                          CDF 10
SPA CUA
7514
     128
                  0300
                                                                                                      CHECK IF FROM PANEL 4000
                            7710
7614
5305
5310
                  0301
                                                                                                     /OD LAS AMD SKIPGET FROM PANEL WITH LAS
/GET LOC 20 FLD 0
/LEAVE BY A COMMON ROUTINE
                  0302
0303
                                           Cageti, CDT 00
                                                                         COGETI
     123
                                                                         CBEXT2
                  0304
                            6201
1770
                                                          TAD I
                                                                        (20
                  0306
      126
                                           COF 10
CSEXT2, JMP I
                  0307
                             6211
5672
                                                                        XC8SW
      129
      129
139
                                            /************************
      131
                                            /CRTTYI
                                            /CETTYI
/THIS ROUTINE WILL LOOK FOR A INPUT FROM THE CONSOL
/ JMS XCSTTY= JMS XCSTTY
/EX. JMS XCSTY /READ CHAR FROM THE CONSOL DEVICE
/ RETURN TO CALL PLUS ONE AC CONTAINS THE CHAR
      134
      137
      140
      141
142
143
                                            XCSTTY, Ø
                  0311
                            6999
                                                                                                      /LOOK FOR KEYBOARD FLAG
                  Ø312
Ø313
                            6031
5312
                                                          KSF
                                                          JMP
KPB
                                                                         ,-1
                                                                                                      /GET CHAR
/MASK FOR 7 BITS
/ADD THE EIGTH BIT
/STORE IT
                             6036
0367
1366
3765
1765
      144
145
146
                  0314
0315
0316
                                                                         (177
(200
COCHAR
                                                          AND
TAD
DCA
                  0317
0320
0321
      147
149
                                                           TAD
JWP I
                                                                         CECHAR
                                            JWP I XCSTTY /EXIT
       149
                                             /CBPRNT
      153
                                            /THIS ROUTINE WILL TYPE THE CONTENTS OF THE CS PRINT BUFFER, THE LOCATION /OF THE BUFFER WILL BE IN THE ADDRS FOLLOWING THE CALL, CO PRINTING OF THE BUFFER /WILL STOP WHEN A 50 CHAR IS DETECTED, CHARACTERS ARE PACKED 2 PER WORD.
      154
155
       156
                                                                         XCSPNT# JMS XCSPNT
       158
       159
                                                                                                                                SEQ 0038
                                                                                                                                                  16:55 PAGE 1-3
 /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                        PAL18 V142A 9-JUN-76
                                             /EX. JMS XC8PMT /C8PRWT THE CONTENTS OF THE FOLLOWING BUFFER / MESS77 /LOCATION OF C8PRWT BUFFER /C8PRWT WILL USE THE LOCATION FOLLOWING THE CALL AS THE POINTER FOR THE /C6PRWT ROUTINE, RETURN TO CALL PLUS TWO WITH ACQ 8
       161
       164
       165
       166
167
        168
                            9000
7300
1722
3355
                                             XCSPNT, Ø
CLA CLL
TAO I
       169
                    Ø322
Ø323
                                                                                                       /GET COPRNT BUFFERS STARTING LOCATION
/STORE IN PISTOR
/BUMP RETURN
/GET DATA HORD
/MASK FOR LEFT BYTE
/CHECK IF #5 TERMINATE
/EXIT
                                                                         XCSPNT
       171
172
                    Ø324
Ø325
                                                            DCA
ISZ
                                                                          PTATOR
XCBPNT
       173
                    0326
                             2322
       174
175
176
                    0327
0330
0331
                              1755
Ø364
745Ø
                                                            I DAT
GPA
AP3
I GPC
                                                                          PTSTOR
(7700
                                             C8D01,
                    0332
0333
0334
                              5722
7500
7020
                                                                          XCBPHT
                                                                                                        /IS AC MINUS
/MAKE CHAR A 196 AFTER ROTATE
/MAKE CHAR A 296 AFTER ROTATE
       178
179
                                                            CHL
                              7001
7012
7012
                    0335
0336
0337
0341
0342
0343
0344
0345
0346
0347
                                                            IAC
                                                            RTR
        181
                                                                                                       /PUT CHAR IN BITS 4-11 MAKE IT 8 BIT ASCII
/CSPRNT IT ON CONSOLE
/GRT DAYS MORD
/MARK FOR RIGHT BYTE
/CHECK IF 99 TERMINATOR
//XXIT
/ADD FUDGE FACTOR TO DETERMINE IF 288
/AR 388 IS TO BE ADD TO CHAR
/ADD 189
/ADD 189
/ADD 290
/CCTYPE OHLY BITS 4-11
        182
                              7012
4763°
1755
                                                            RTR
JMS
TAD I
                                                                          XCSTYP
        185
186
187
                                                                          PTSTOR
(0977
                               0362
7450
5722
                                                            I dwr
Vnd
Uwy
                                                                          XCBPNT
(3740
        198
        189
198
191
                              1361
7500
1350
                                                            110
                                                            SMA
                                                                           (199
                              1350
1357
4763°
2355
5327
6460
6260
6160
                                                                          (246
XCSTXP
PISTOR
        192
193
                                                            TAD
                                                                                                        VESTINE OFLY BITS 4-11
VALUE POINTER FOR NEXT WORD
                    0353
0354
0355
                                                            127
        194
                                                                                                        196
                                              PESTOR.
                    6775
6707
6368
                    #361
#362
#363
                               9746
        200
```

į,

2021 1254

9635 1013

1036

8371 8372 8373

0375

203

265 266 267

208

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                 V142A 9-JUN-76
                                                                                                  PALID
                                                                                                                                                                    16:55 PAGE 1-4
                                                                                                                                                                                                                                                             SEQ 0039
                                                  217
                                                 /THIS ROUTINE WILL CHECK FOR THE PRESENCE OF CONTROL CHARACTERS
/IT WILL CHECK FOR THE FOLLOWING CHAR C-R-Q-0-L-S
/ JMS XC8CNT= JMS XC8CNT
      220
                                                                                                                   /CHECK FOR CONTROL CHARACTER
/LOC FOLLOWING CALL IS FOR CONTINUING THE PROGRAM
/LOC. IS FOR RETURN IF INMODE SET AND NOT CHTRL CHAR
                                                 /EΧ,
                                                                                  ANYTHING
                                                                  JMP
                                                                                  ANYTHING
      225
      226
227
                                                 /RETURN IS TO CALL PLUS ONE IF CONTINUE
/RETURN IS TO CALL PLUS TWO IF INMODE NOT SET AND NOT CONTROL CHAR
      228
     229
230
231
                                                 XCBCNT, Ø
                    0400
                               0000
                                                                                                                   /SAVE THE AC
/CHECK LOC 22
/ON ACTIVE CONSOLE
                    Ø4Ø1
Ø4Ø2
                                3777°
                                                                 DCA
                                                                                 ACSAV
C8CK22
                                                                  JMS
                    0403
                                                                                 .+3
ACSAV
XC8CNT
                                5206
                                                                  JMP
                    0404
0405
                                1777*
                                                                 TAD
JMP I
                                                                                                                   /GET AC FOR RETURN
/EXIT NOT ON ACTIVE CONSOLE
      236
                    9496
                                6004
3775
                                                                  GTF
                     0407
                                                                                  FLSAVE
                    8419
                                                                  MQA
                                 7501
                                                                                                                  /SAVE THE MG
/SET DISPLACEMENT INTO TABLE B
/GET ADDRS OF TABLE A
/CONTAINS POINTER TO CONTROL CHAR
/GET CONTROL CHAR FROM TABLE
/CHECK FOR A Ø END OF TABLE
/END OF TABLE NO CONTROL CHAR
/COMPARE CHAR TO CONTROL CHAR
/Ø IF MATCH
                                                                  DCA
                                                                                  MOSAVE
                                                                  DCA
                                                                                  INDEXA
                                1257
3256
      242
                    0413
                                                                  TAD
                    0414
0415
0416
                                                                  DCA
                                1656
7450
                                                 REDOA,
                                                                  TAD I
                                                                                 GETDAT
      245
                                                                  SNA
                                5226
1773
                    6417
                                                                  JMP
                                                                                  DONEA
                    0420
0421
                                                                                 CSCHAR
      248
                                7650
                                                                  SNA CLA
                                                                                                                   /Ø IF MATCH
/MATCH
/MATCH
/NO MATCH NOT END OF TABLE REDO
/BUMP INDEX FOR EXIT WHEN CONTROL FOUND
/BUMP GETDAT FOR COMPARE OF NEXT CHTRL CHAR,
/CHECK IF PROGRAM EXPECTS CHAR
/I=CHAR EXPECTED
//=CHAR EXPECTED
                    0422
0423
0424
                                5243
2255
2256
                                                                  JMP
                                                                                  GOITA
                                                                                  INDEXA
GETDAT
      251
                                                                  ISZ
      252
253
254
                                5215
1772°
7640
                                                                                  REDOA
INMODE
                    Ø425
                                                                  .TMD
                    0426
0427
                                                 DONEA,
                                                                 SZA CLA
                                                                                                                   /INCHAR EXPECTED
/GHAR EXPECTED
/GET CHAR - NOT CONTROL + NOT EXPECTED
/GET CODE FOR "?"
                    0430
0431
0432
      255
                                                                                  EXITA
      256
                                                                                  CSCHAR
      257
                                 4771 *
                                                                  JMS
                                                                                  XC8TYP
(277
                    0432
0433
0434
0435
0436
0437
0440
                                1370
4771°
4767°
                                                                  TAD
JMS
JMS
      258
259
                                                                                  XCSTYP
XCSCRL
      268
                                                                                  XC8CNT
XC8CNT
XC8CNT
                                                                                                                   /UPDATE POINTER FOR +2 RETURN;

/EXIT AND CONTINUE PROGRAM

/BUMP RETURN FOR MAIN PROGRAM CHECK OF CHAR
      261
262
                                2200
                                                                  ISZ
                                5600
2200
                                                 EXITA.
      263
                                                                  ISZ
                    0441
0442
0443
0444
                                1773°
5600
1773°
                                                                                  CBCHAR
XCBCNT
CBCHAR
                                                                                                                    /PUT CHAR IN AC.
      264
                                                                  TAD
                                                                                                                   /GET THE CONTENTS OF CHAR
/ADD 100 TO FORM A GOOD ASCII CHARACTER
/RESTORE COFFECT CHAR
      266
                                                 GOITA,
                                                                  TAD
                                                                                  (100
CBCHAR
      267
                                                                  DCA
  /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                    V142A 9-JUN-76
                                                                                                                                                                      16:55 PAGE 1-5
                                                                                                                                                                                                                                                               SEQ 0040
                                                                                                   PALIØ
                                                                                                                     /GET START OF TABLE B
/GET NOW FAR INTO TABLE
                                                                                                                    GET NOW FAR INTO TABLE

/STORE IT

/GET NOW FAR INTO TABLE

/STORE IT IN HERE

/GOTO CONTROL CHAR ROUTINE

ADD OF CHYRL ROUTINE TO EXECUTE

/DISPLACEMENT INTO CHTRL TABLE

/LOCATION OF ADDRS OF CONTROL CHAR,

ADDRS OF TABLEB

/CNTRL C BACK TO MONITOR 203

/CNTRL C BACK TO MONITOR 203

/CNTRL O START DISPLAYING CHAR, AGAIN 221

/CNTRL R BACK TO BEGINNING OF PROGRAM 222

/CNTRL S STOP SENDING CHAR TO DISPLAY WAIT FOR CNTRL Q 223

/CNTRL E CONTINUE WITH PROGRAM 205

/CONTROL D CHANGE SWITCH REGISTER ON FLY

/CONTROL O FOR PRINTING STSTICIS LOC 202
                                  1255
3254
        270
                     0447
                                                                   TAD
                                                                                    INDEXA
                     0450
0451
                                                                   DCA
TAD I
                                                                                   GOTOA
        272
                                  1654
       273
274
275
                     0452
0453
0454
0455
0456
0457
                                                                   DCA
JMP I
                                  3254
                                                                                    COTOA
                                                   GOTOA.
                                  8888
                                                                   0000
       276
277
                                  9999
                                                   INDEXA,
GETDAT,
                                                                   0000
                                                                  0000
TABLA
        278
                                  0461
                                                   XTABLA.
                                                                   TABLB
7575
7557
                     8468
8461
                                                   XTABLB,
        281
282
283
                      0462
                                  7557
                                                                   7556
7555
7573
                     Ø463
Ø464
                                  7556
7555
                                  7573
        284
                      0465
                      Ø466
Ø467
                                  7574
7561
                                                                    7574
                                                                    7561
        287
288
289
299
                      0470
0471
0472
0473
                                  9999
1996
9599
9594
                                                                    0000
                                                                   CNTRLC
CNTRLQ
                                                   TABLB,
                                                                    CHTRLR
                                  Ø514
Ø532
                                                                   CNTRLS
        292
                      0476
                                  9699
                                                                    CNTRLD
        295
296
                                                   /START SENDING CHAR, TO THE DISPLAY /THIS WILL RETURN CONTROL TO CALL THAT WAS SET BY /THE CALL FOR CONTROL S.
        299
        300
                                 3330
3772°
4765°
                      0500
0501
                                                                                                                     /CLEAR SOFT FLAG FOR CNTRL S
/CLEAR SOFTWARE FLAG:
                                                   CNTRLQ, DCA
        302
                                                                                    INMODE .
                                                                    DCA
                                                                                   COGET
CORETR
                                                                                                                     /GET THE REGISTERS
/GO TO CALL SAVED BY CNTRL S
                      0502
                                                                    JMS
        304
        305
        307
308
                                                    GO TO THE QUESTION CSSWIT
        310
                                                                                                                      /CSPRNT A * AND THE CHAR
/CLEAR SOFT FLAG FOR CNTRL S
                      0504
0505
0506
                                  4764°
3330
3772°
                                                   CHIRLR. JMS
                                                                                    HPARON
                                                                   DCA
        313
                                                                                    INMODE
```

/CLEAR REENTRY FLAG

GO TO ADDRS OF CSSWIT

/DOSW IS LABEL FOR CBSWIT QUESTION

JMS XCE DCA C88 CDF CIF 00

COSTRT

XC8CRL C8SWST

XDOSW

STOP SENDING CHAR, TO DISPLAY UNTIL A TO IS RECEIVED

0507 0510

0511

Ø513

316

318

320

4767° 3763°

6203 5713

9298

C8BY4,

XDOSW.

```
PAL10
                                                                                           V142A 9-JUN-76
                                                                                                                                  16:55 PAGE 1-6
                                                                                                                                                                                                         SEQ 0041
/RXB DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                           /IF1 DO NOT STORE IN CURETR
                                                                 C8SETS
                                      CNTRLS, TAD
                        7640
5323
                                                    SZA CLA
                                                                 C8D07
                                                                                           /DONT SET UP CRRETR
                0516
     326
               Ø517
Ø52Ø
                         7001
1200
                                                    IAC
                                                    TAD
                                                                 XC8CNT
C8RETR
                                                                                            /GET RETURN FOR THIS CALL
     328
                                                                                           /GET RETURN FOR THIS CALL
/STORE IT HERE FOR USE BE CNTROL Q
/UPDATE REENTRY FLAG!
/LOOK FOR CONTROL CHAR,
/REPLACE AC, MQ, AND LINK,
/CHECK FOR CONTROL CHAR,
                         3331
     329
                #521
                                                    ISZ
JMS
JMS
                         2330
4762
                0522
                                                                 CSSETS
                                                                 XCSTTY
CSGET
                                      C8D07,
     331
                Ø523
                         4765°
4200
                Ø524
Ø525
                                                    JMS
CLA
                                                                 XC8CNT
     3 3 4
                0526
                         7200
                0527
0530
                                                                 CNTRLS
                         5314
                                                    TMP
                                       CESETS,
     336
     337
                0531
                         6000
                                       CSRETR, Ø
     339
340
                                       CONTROL E CONTINUE RUNNING FROM A INQUIRE OR ERROR
     342
     343
344
345
                                                                                            /PRINT THE CONTROL CHAR
                                                                 UPAROW
                                       CNTRLE. JMS
                         4765°
5600
                                                                 CRGET
                                                     JMS
                                                     JMP I
                                                                 XCBCNT
                                                                                            /RETURN TO CALL PLUS ONE
     348
     349
350
351
                                      /CONTROL O TO RETURN TO FLD Ø LOC 202 FOR STATISTICAL INFO
CNTRLO, JMS UPARON
CDF CIF Ø /SET UP TO FLD Ø
JMP I (202 /START OF STATISTIC
                0535
                         4764
     352
353
354
                И536
И537
И561
                         6203
5761
0202
                                                                                                         /START OF STATISTIC PROG
     355
356
357
                9562
9563
9564
                         Ø311
Ø746
Ø615
     358
                Ø565
                          Ø624
                         0100
1036
0277
1112
1111
                0566
0567
     360
                0570
0571
0572
     361
362
     363
                0573 1110
0574 1142
0575 1143
     364
365
     366
                         1151
1141
0600
                0576
0577
     367
     368
                                                     PAGE
     369
370
371
                                                     /CONTROL D /CHANGE THE SWITCH REGISTER ANYTIME CNTRL D AND RETURN TO /THE PROGRAM RUNNING.
     372
     373
374
375
                0600 4215
                                       CNTRLD, JMS
                                                                 UPAROW
     377
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                              PALIØ
                                                                                            V142A 9-JUN-76
                                                                                                                                   16:55 PAGE 1-7
                                                                                                                                                                                                          SEQ 0042
                                                     TAD
                                                                 C8SETD
                                                                                            /CHECK IF THE RETURN ADDRS IS SAFE
     378
                 0601
                          7640
5207
1777
                                                     SZA CLA
JMP
TAD
                0602
0603
     379
380
                                                                                            /DO NOT CHANGE THE RETURN ADDRS
/GET THE RETURN ADDRS AND SAVE IT
/SAVE THE RETURN HERE
/INDICATE RETURN SAVED DONT DISTROY
/GO CHANGE THE SWITCH REGISTER
/CLEAR THE FLAG
/REPLACE AC, MQ, AND LINK,
/RETURN TO THE PROGRAM
                                                                  C8D011
      381
                 0604
                                                                  XCACNT
                          3214
2213
4252
3213
                0605
0606
                                                                 C8RETD
C8SETD
      383
                                                     ISZ
     384
385
386
                 9697
                                       C8D011,
                                                    JMS
DCA
                                                                  YCRPSW
                Ø61Ø
Ø611
                                                                  CSSETD
                          4224
                                                     JMS
                                                                  CSGET
      387
                 0612
                          5614
                                                     JMP I
                                                                  CERETD
      388
                                       CESETD, Ø
                 0613
      389
                          0000
     39Ø
391
                          0000
                                       CORETD, Ø
     392
      393
394
                                                                                             CEPRNT THE *** AND THE CHAR CETYPED IN
                        0000
1376
4775
1774
      395
                 2615
                                        UPAROW, Ø
      396
397
398
                                                                 (336
XC8TYP
C8CHAR
XC8TYP
XC8CRLF
UPAROW
                Ø616
Ø617
                                                     TAD
JMS
                                                                                             /CODE FOR
                 8628
                                                     CAT
                                                                                             /CSTYPE THE CHAR
                0621
0622
0623
                          4775°
4773°
5615
      400
      401
                                                     JMP I
                                                                                             /EXIT
      402
403
                          0000
7200
                                        CEGET,
      404
                 0625
                                                     CLA
      405
406
407
                          1772°
7421
1771°
                Ø626
Ø627
                                                     TAD
MQL
                                                                  MOSAVE
                                                                                             /RESTORE MQ
                 0630
                                                                  FLSAVE
                                                     TAD
                0631
2632
0633
                          7004
7200
1770
      4Ø8
4Ø9
                                                     RAL
CLA
                                                                                             /RESTORE THE LINK
                                                                                             /RESTORE THE AC
      410
                                                     TAD
                                                                  ACSAV
      411
412
                                                     JMP I
                                                                  CSGET
                                                                                             /GET THE REGISTERS
      413
     414
                                        /CSINGU POUTINE WILL PRINT A ASTERISK /AND THE PROGRAM IS EXPECTING A CONTROL CHAR INPUT /IF CONTINUE FROM CONTROL CHAR RETURN IS CALL PLUS ONE /IF NO CONTROL CHAR ENTERED THEN ASTERISK IS REPRINTED /AND PROGRAM WAITS FOR A CONTROL CHAR AGAIN
      420
421
422
      423
424
                                        ,
                                                     JMS
                                                                  XC8INQ# JMS XCBINQ
      425
      426
427
                                        /EX
                                                                  XCBING
                                                                                             /C8 WILL PRINT A * AND WAIT FOR INPUT /RETURN IS CALL PLUS ONE AC \pm \theta CONTINUE
                                                     DO ANYTHING
      428
429
                 0635
                          0000
                                        XC8INQ,
                                                    ø
                           4767°
                 Ø636
Ø637
                                                                  C8CK22
                                                                                             /CHECK FOR LOC 22 FLD &
```

/NOT CONSOLE LEAVE

431 432

SKP JMP I

XCSINQ

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                           PAL10 V142A 9-JUN-76
                                                                                                                                                          16:55 PAGE 1-8
                                                                                                                                                                                                                                             SEQ 0043
                                                             JMS
                                                                            XCBCRLF
                              4766
                                                             JMS
WATMES
      434
                                                                                                           /INQUIR WAITTING
                   0643
                                                             JMS
JMS
JMS
                  0644
0645
     436
437
                                                                            XC8CRL
                                                                                                           /SAVE CHARACTER!
/REPLACE AC, MG, AND LINK.
/CHECK FOR CONTROL CHARACTER!
/EXIT AND CONTINUE
                                                                            XCBTTY
CBGET
                              4224
     438
439
440
441
442
443
444
                   0646
                                                                            XC8CNT
XC8ING
                   Ø647
Ø65Ø
                                                             JMS
JMP I
                              5635
                   0651
                              5236
                                                             JMP
                                                                            XCBING+1
                                                                                                            /REASK
                                              /CBSWIT
                                             /COSNIT
/ROUTINE WILL CHECK IF CONSOL IS ACTIVE IF IT IS ACTIVE DISPLAY
/SW QUESTION, IN NOT ACTIVE IT WILL NOT PRINT THE SW QUESTIONBUT
/RETURN TO CALL PLUS ONE ACE®,
/COSNIT WILL SET UP THE PSEUDO COSNIT
/REGISTER WITH THE NEW DATA ENTERED
/THE TAG CEDOR AT THE START OF THE CALL IS FOR THE RETURN OF CONTROL R
/CHAR, THIS MAY BE CHANGED IF THIS IS NOT WHERE A GOOD RESTART
      445
446
447
448
449
450
                                              /OF PROGRAM IS.
      453
      454
455
                                                             JMS
                                                                            XC8PSW= JMS XC8PSW
                                                                                                           /SET UP PSEUDO C88WIT REGISTER IF /ON THE CONSOL PACKAGE. RETURN IS CALL PLUS ONE AC = \theta
                                              /EX.
                                                             Cabor, JMS
                                                                                           XCBPSW
      456
      457
458
459
      460
461
462
                                             XCBPSW, Ø
JMS
                             4767°
7410
5652
1346
7640
5764°
      463
464
465
                   Ø653
Ø654
Ø655
                                                                            CSCK22
                                                             SKP
JMP I
                                                                                                            /RETURN WITHOUT ASKING PSEUDO SWITCH
      466
467
                  Ø656
Ø657
                                                             TAD
                                                                            CRSWST
                                                             SZA CLA
JMP
                                                                                                            /SPECIAL D EXIT?
                                                                            C8BY4
C8SWST
                   9669
      468
                                                                                                            /YES, PRINT SR=
/NO, SET FLAG!
      469
47Ø
471
                   9661
                              2346
                                                             ISZ
                   9662
9663
                                              REDO1,
                                                             JMS
JMS
                               4766
                                                                             XCSPNT
                                                                                                                           /CSPRNT SREXXX
      472
473
474
                                                             MESA
CDF 00
TAD I
                   0664
                              1004
                   0665
0666
                              6201
                                                                            (20
      475
476
477
478
                              6211
4762°
1361
4775°
                                                             CDF 10
JMS
TAD
JMS
                   0667
                   0670
0671
0672
                                                                             XCSOCT
                                                                                                           /CONVERT IT TO ASCII
                                                                             (40
XCSTYP
                   0673
0674
0675
                                                             ISZ
JMS
JMS
                                                                            INMODE
XCBECH
TSTCHA
                                                                                                            /SET FLAG FOR CHAR EXECTED
/LOOK FOR INPUT
/NOT CONTROL TEST IT IS LEGAL
      479
480
481
482
483
484
                               4322
                   9676
9677
9799
                                                             TAD
CDF 00
DCA I
                                                                                                            STORE NEW CHAR IN SW REG
                                                                             CECHAR
                              6291
3763
                                                                            (20
      485
486
487
                              6211
1356
3347
                   0701
0702
                                                              CDF 10
TAD
                                                                                                            /GET A MINUS 3
/STORE IN TEMP COUNT
                   0703
                                                                             TMPCNT
/RX8 DATA RELIABILITY/EXERCISER -DIRX8-D
                                                                                           PAL16
                                                                                                           V142A
                                                                                                                          9-JUN-76
                                                                                                                                                         16:55
                                                                                                                                                                        PAGE 1-9
                                                                                                                                                                                                                                             SEQ 0044
                                                                                                           /GET NEXT CHAR
/CHECK IF CR + GOOD CHAR
                             4322
6201
1763
6211
7106
7004
1774
                  0705
                                                             JMS
                                                                            TSTCHA
                                                            CDF 00
TAD I
CDF 10
RTL CLL
RAL
     490
491
492
493
                  0706
0707
0710
0711
                                                                            (20
                                                                                                           /ROTATE IT LEFT 3 PLACES
     494
                  0712
0713
                                                             TAD
                                                                            CSCHAR
                                                                                                           /GET CHAR + ADD IT TO PREVIOUS CONTENTS
     496
497
                  8714
8715
                                                             CDF 00
                                                             DCA I
CDF 10
                                                                            (20
                  0716
     49B
                              6211
     499
500
501
                  0717
0720
0721
                                                                            TMPCNT
GETCH1
                                                                                                           /BUMP COUNT
/JMP BACK + GET NEXT CHAR
/END 4 CHAR CSTYPED IN
                              2347
                                                             ISZ
                              53Ø4
5343
                                                             JMP
                                                             JMP
                                                                            ENDIT
     502
503
504
                  Ø722
Ø723
Ø724
                              0000
7041
1355
                                             TSTCHA,
                                                                                                          /CMPL CHAR IN AC
/TEST IF IT IS A CARRIAGE RETURN
/SKIP IN NOT CR,
/WAS CARRIAGE RETURN
/NOT CR, GET CHAR
/CHECK IF IT IS IN RANGE
/IF NOT POSITIVE CBERR CHAR SMALLER THEN 260
/CBERR - CHAR TOO SMALL
/GET CHAR
/GET A - 270 + CHECK IF IT IS LARGER THEN 7
/SKIP IF LESS THEN 7
/CBERR ON CHAR HOT IN RANGE
/GET CHAR
/MASK FOR RIGHT BYTE
/STORE IN CHAR
/GET CHAR
/MASK FOR RIGHT BYTE
/STORE IN CHAR
/GET CHAR
/GET CHAR
                                                                            (215
                  0725
0726
0727
                              7650
5343
1774
     505
506
                                                             SNA CLA
JMP
                                                                            ENDIT
     507
                                                             TAD
                                                                            CRCHAR
                  0730
0731
0732
                              1354
7710
5753°
     508
                                                                            (-260
                                                             SPA CLA
     510
                                                                            CRERRI
                                                             TAD
                                                                            C8CHAR
(-270
                                                             TAD
                              7700
5753°
1774°
                                                             SMA CLA
JMP
TAD
     513
                  Ø735
     514
515
516
                                                                            CSERRI
                                                                            CBCHAR
                  9740
                                                             AND
     517
518
519
                                                                                                            /GET CHAR IN AC
                  0742
                              5722
                                                             JMP I
                                                                            TSTCHA
                                                                                                            /EXIT
                  0743
0744
0745
                              4773°
                                             ENDIT,
                                                             JMS
                                                                                                                           /DO A CR LF
                                                                             XC8CRL
     521
                                                                                                           /CLEAR REENTRY FLAG!
/EXIT ROUTINE
                                                             DCA
                                                                            CRAWST
     522
523
                                                             JMP I
                              5652
                  0746
0747
                              0000
                                             COSWST. 0
     524
525
                              9999
                                              TMPCNT, Ø
                  0752
0753
0754
0755
                              7510
1000
7520
```

537 538

541 542

Ø215 7775

1976

1111

0756 0757

0760 0761

0770

)

```
SEQ 0045
```

576 577 578

581

582 583

584

1234 0372 1371

1013 1014

1015 1016

1017

1020

1021

1022

```
PAL10 V142A 9-JUN-76
/PXS DATA RELIABILITY/EXERCISER -DIRXB-D
                  0772
0773
0774
                             1436
1110
1112
#336
     545
                             8488
                                                           PAGE
     55Ø
551
                                                                           (277
XCOTYPE
                                                                                                         /PRINT A ?
                                            CSERRI, TAD
                  1000
1001
1002
                             1377
4312
4236
5776
                                                            JMS
     552
553
                                                                           XCSCRLF
REDO1
                                                            JMS
                   1003
1004
                                                            JMP
                                             MESA,
                                                            TEXT
                                                                           " 5R=
     555
                              7500
                   1005
      556
      557
                                            RETURN TO MONITOR
CNTRLC, DCA TTYLPT
JMS UPAROW
CDF CIF
     558
559
                                                                                                         /CLEAR EXIT FLAG,
/CSPRNT A" AND LETTER IN CHAR
/GO TO 8 FLD
/CLEAR THE WORLD
/GO TO DIAGNOSTIC MONITOR
                  1006
1007
1010
                            3337
4775°
6203
     560
561
562
563
                                                            CAF
                                                            JMP I
                                                                           (7688
      564
565
566
      567
568
569
```

/AC CONTAINS NUMBER TO BE CHANGE XCSOCT ÆX. JMS XCBOCT, Ø
CLL RTL
RTL
DCA /POSITION THE FIRST CHAR FOR PRINTING /SAVE CORRECT POSITIONED WORD HERE CSTMP1 (-4 CBCKP CBTNP1 (0007 (260 XCBTYP /STORE COUNTER IN HERE /GET FIRST NUMBER /MASK DCA C8D04, TAD AND TAD JMS /ADD THE PRINT CONSTANT
/TYPE THE NUMBER C8TMP1

585 586 587 588 1024 1234 TAD RTL 1026 /PUT NEXT NUMBER IN POSITION /STORE IT 589 590 1027 7004 RAL 3234 2235 5221 5613 DCA ISZ JMP 1030 CATHPI /DONE YET WITH FOUR NUMBERS /NOT YET DO MORE /DONE WITH FOUR CBCKP CBD04 591 592 593 1032 1033 JMP I CSTMP1, XCSOCT 594 1034 8080 1035 COCKP.

SEQ 0046

```
PAGE 1-11
                                                                                                               16155
                                                                                        9-JUN-76
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                  PAL19
                                                                             V142A
                                 <del>/****************************</del>
    597
                                 /CBCRLF
    598
599
                                 CRITIPE CR AND LF WITH FILLERS FOLLOWING EACH LF AND CR
    600
                                                       XC8CRL= JMS XC8CRL
                                            JMS
    601
602
                                                                              /CSPRNT A CR AND LF WITH FILL
/RETURN TO CALL PLUS ONE AC =0
                                                       XCBCRL
                                 ÆX.
    603
    605
              1036 0000
1037 7300
1040 1370
1041 4312
                                 XCBCRL, Ø
     606
                                             CLA CLL
                                                                              /GET CODE FOR CR
                                             TAD
JMS
                                                        (215
XCBTYP
    608
    609
                      1252
7040
3253
                                                        COFILLER
                                             TAD
              1043
1044
1045
1046
1047
1050
1051
1052
                                             CHA
DCA
    611
612
613
                                                        FILCHT
                                                                              STORE FILLER IN HERE /GET CODE FOR LF
                      1367
4312
2253
5246
5636
0004
                                                        (212
XCBTYP
FILCHT
                                             TAD
                                             JMS
ISZ
                                  C8D02,
     614
                                                                              TYPE A NON PRINTING CHAR
    615
616
617
618
                                             JMP
                                                        C8D02
                                                        XCBCRL
0004
                                             JMP I
                                                                               /FILLER SET FOR 4 CHAR
/COUNTER FOR FILL
                                  COFILLER,
FILCHT, Ø
     619
620
621
                                  622
623
624
625
     626
     627
     629
     630
631
632
     634
635
                                                                               /CHECK IF CONSOL DEVICE KEYBOARD SET
                                                         XCBCKP
                                   ÆX.
                                                                    /RETURN
                                              NOP
                                              NOP
                                                                    /RETURN
     637
     638
639
649
641
642
643
                                   XCBCKP,
                                                                                /SAVE AC, NQ, AND LINK!
/GET THE FLAGS
               1055
1056
1057
                                              DCA
                                                         ACSAV
                       3341
                       6004
3343
                                              GTF
                                                         FLSAVE
      644
645
646
647
               1060
1061
1062
1063
1064
                       7501
3342
6031
5274
4351
                                              MOA
                                              DCA
KSF
                                                                                /SAVE MQ.
                                                         MOSAVE
                                                                                /CHECK THE CONSOL FLAG
/NO FLAG UP!
```

JMP

JHS

SKP

CRBY1

CBBY3

COCK22

CHECK LOC 22

/NO1

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                   PAL10
                                                                                                 V142A 9-JUN-76
                                                                                                                                           16:55 PAGE 1-12
                                                                                                                                                                                                                       SEG 0047
                                                        JMS.
                                                                     XCSTTY
                                                                                                  /SAVE CHARACTER!
                          4765°
4764°
7000
2254
                                                                                                  /REPLACE AC, MQ, AND LINK;
/CHECK IF IT WAS A CONTROL CHAR
                                                        JMS
JMS
     652
                 1070
                1070
1071
1072
1073
1074
1075
     653
                                                                     XC8CNT
                                                        NOP
     654
655
                                                                                                               /UPDATE FOR RETURN +2. /REPLACE FLAGS.
                                                                      XC8CKP
                                                        ISZ
     656
                           4765°
5654
                                         C8BY3,
                                                       JMS
                                                                      CRGET
                                                        JMP I
                                                                      XCBCKP
                                                                                                  /EXIT
                                          660
     661
                                          /CBECHO
                                         /COECHO
/THIS ROUTINE WILL LOOK FOR A CHAR FROM THE KEYBOARD. STORE IT IN I
/CHECK IF IT WAS A COECHT CHARACTER - SET INMODE - COECHT CHARACTER
/ JMS XCOECH= JMS XCOECH
/EX. JMS XCOECH /LOOK FOR CONSOL CHAR COEPRNT IT
/RETURN CALL PLUS ONE AC = CHAR COETPED IN
                                                                                                                                        STORE IT IN LOCATION CHAR
     663
     664
     666
667
668
669
                                         XCBECH, Ø JMS
                 1076 0000
1077 4766°
     671
672
                                                                                                 /WAIT FOR CHAR FROM KEYBOARD
/GET THE REGISTERS
/SET INMODE IDENTIFING THIS AS A EXPECTED CHAR
/GO CHECK IF IT IS A CONTROL CHAR
/WAS A CONTROL CHAR - CONTINUE RUNNING
/NOT A CONTROL CHAR CSPRNT IT
/CLEAR FLAG THAT CHAR EXPECTED
                                                                     XCBTTY
CBGET
INMODE
     673
674
                 1100
                           4765°
2311
                                                       JMS
ISZ
                          2311
4764°
5676
4312
3311
1310
5676
     675
676
677
                                                                      XCBCNT
                 1102
1103
                                                        JMS
                                                                      XC8ECH
XC8TYP
INMODE
                                                        JMP I
                                                        JMS
DCA
                 1104
     678
679
680
                 1105
1106
1107
1110
                                                        TAD
JMP I
                                                                      C8CHAR
XC8ECH
                                                                                                  /GET CHAR IN AC
     681
682
683
                            9000
                                          CBCHAR.
                                          INMODE, Ø
                                          684
     685
686
687
688
                                          /THIS ROUTINE WILL COPRNT ON THE CONSOLE OR THE LPT WITH DEVICE CODE 66.
                                                        JMS
                                                                      XCSTYP= JMS XCSTYP
     689
     698
                                                                                    /C8PRNT THE CHAR IN THE AC.
/RETURN CALL PLUS ONE AC #8000
/DO NOT CLEAR THE LINK IN THIS ROUTINE NEEDED BYC8OCT
                                          ÆX.
     692
693
     694
     695
696
                 1112 0000
1113 3336
1114 1337
1115 7640
1116 5325
1117 1336
                                          XCSTYP, Ø
DCA
TAD
SZA CLA
     697
698
                                                                                                  /STORE CHAR
/CHECK O=TTY 7777=LPT
                                                                      PNTBUF
                                                                      TTYLPT
     699
     700
701
702
                                                        JMP
TAD
                                                                      XDOLPT
                                                                                                  /DO OUT PUT ON LPT
                                                                      PNTBUF
                            6046
6041
5321
                                                        TLS
TSF
JMP
                 1120
     703
704
                 1121
                                                                      .-1
     705
                                                        TCF
                                                                                                                                                         PAGE 1-13
/PX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                  V142A
                                                                                                               9-JUN-76
                                                                                                                                                                                                                       SEQ 0048
                                                                                   PAL10
                                                                                                                                            16:55
                                                                      C8BY5
                                                                                                  /EXIT
                                                                                                  /GET CHAR
/CSPRNT IT
                                          XDOLPT, TAD
                                                                      PNTBUF
                 1125
     707
                           1336
     708
709
710
                 1126
1127
1130
                           6666
4254
7000
                                                        PSTB
JMS
NOP
                                                                      PCLF
XC8CKP
                                                                                                  /CHECK FOR CONTROL C.
                 1131
1132
1133
                            6661
5327
                                                        PSKF
                                                        JMP
PCLF
                                                                                                  /WAIT UNTIL DONE
                            6662
     714
715
716
                 1134
1135
1136
                            7200
5712
                                                        CLA
JMP I
                                          C8BY5,
                                          PNTBUF, Ø
                            0000
                 1140
1141
1142
1143
1144
1145
                                         PCSAVE, 7777
ACSAV, 7777
MQSAVE, 7777
FLSAVE, 7777
WATMES, TEXT
     720
721
722
                            7777
1777
7777
                            7777
2701
1124
1116
9740
                                                                      "WAITING "
                 1146
1147
1150
                            9999
     725
726
727
728
729
730
731
732
733
                                                        /C8CK22 WILL CHECK LOCATION 22 FLD @
                 1151
1152
1153
1154
1155
1156
1157
                                                        C8CK22. 0
                            6201
7200
1763
                                                        CDF 00
                                                        CDF 00
CLA
TAD I
CDF 10
SNA CLA
ISZ
                                                                    (22
     734
735
736
                            6211
765Ø
2351
                                                        ISZ C8CK22
JMP I C8CK22
                                                                                                  /RETURN FORACTIVE CONSOL IS +1
     737
738
739
740
741
742
743
744
745
747
748
749
750
                            5751
                 1164
1165
1166
1167
                            Ø400
Ø624
Ø311
                            0212
                 1170
1171
1172
                            Ø215
Ø26Ø
                            9097
7774
7690
                 1173
                 1175
1176
                            Ø615
      752
753
                            0662
```

PAGE

```
/THIS IS THE FIELD @ CALL FOR CHECKING THE CONTROL CHAR
                                             XXC8CNTR, Ø
JMS XC8CNTR
NOP
CDF CIF ØØ
JMP I XXC8CNTR
          1200 8080
1201 4777
1202 7080
1203 6203
1204 5680
                                                                                   /GO TO CONTROL CHAR ROUTINE
                                                                                   /RETURN TO FIELD Ø
                                              /***************
                                             XXC8INQ, Ø
JMS XC8INQU
CDF CIF ØØ
JMP I XXC8INQ
          1205 0000
1206 4776'
1207 6203
1210 5605
                                                                                    /PRINT WAITING
                                                                                    PEXIT TO FLD 9
                                             XXCOPSW, 0
JMS XCOPSW
CDF CIF 00
JMP I XXCOPSN
           1211 5000
1212 4775°
1213 6203
1214 5611
                                                                                    /FIELD Ø CALL FOR SWIT REG QUESTION
                                                                                   /EXIT TO FIELD 0
                                              /*********************************
                                              XXC85W, Ø
JMS XC85W
CDF CIF ØØ
JMP I XXC85W
           1215 #000
1216 4774°
1217 6203
1220 5615
                                                                                    /FIELD & CALL FOR THIS CHECK OF SW SETTING
                                              /LOOK IS A CHECK OF TTY AND CONTROL CHAR
                                             XCOLOOK,
JMS XCOTTY
TMS XCOCNTR
           1221 8900
1222 4773°
1223 4777°
1224 7410
1225 5230
1226 6203
1227 5621
1230 4776°
1231 5226
                                                                      /GET THE CHAR

/GET THE CONTROL CHAR FUNCTION
/IS A CONTINUE
                                              JMS
JMS
SKP
JMP
                                                          REASK1
                                 EXILOOK, CDF CIF 89

REASK1, JMS XC8INQU

JMP EXILOOK
           1373 Ø311
```

/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D PAL18 V142A 9-JUN-76 16:55 PAGE 1-15 SEQ 0050 Ø272

8652 8635 8480 8880

FIELD 0

```
0000
0100
     11111111 11111111
01111111 11111111
                                                 11111111
     11111111 11111111
                       11111111
                                11000000
0000000
                                        00000000
00000000
                                                  00000000
00000000
                                                           99999999
99999999
                                                                    00000000
00011111
1400
1600
2000
2100
2200
2300
2400
2500
2600
2700
3000
3100
3200
3300
3400
3500
3600
3700
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                           PAL10
                                                  V142A 9-JUN-76
                                                                               PAGE 1-17
                                                                                                               SEQ 0052
4000
4100
4200
4300
4400
4500
4600
4700
5000
5100
5200
5300
5400
5500
5600
5700
6000
6100
6200
6300
6400
6500
6600
6700
7000
7100
7200
7300
```

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SEQ 0051

/PX8 DATA RELIABILITY/EXERCISER -DIPXB-D

```
PAL10 V142A 9-JUN-76
                                                                                                                               PAGE 1-18
                                                                                                                                                                                  SEQ 9053
/PX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                  / RX8 DATA RELIABILITY/EXERCISER + MAINDEC-08-DIRXB-D
    816
817
                                  THIS TABLE OF PROCESSOR HLT 'S IS DESIGNED TO PROVIDE TO THE OPERATOR IMPORTANT /INFORMATION CONCERNING THAT HALT AND THE TYPE OF RECOVERY AVAILABLE
                                   THE CONTENTS OF THE AC AT THE TIME OF THE HALT REPRESENTS THE PSEUDO ADDRESS
    820
                                   OF THE 7402 (HLT).
                                  /ALL OCTAL TO DECIMAL CONVERSION ROUTINES HAVE BEEN REMOVED /TO CONSERVE CORE. THE REAL TIME CLOCK HAS ALSO BEEN REMOVED /AGAIN TO SAVE CORE.
    823
    826
    828
                                              HLT1
                                                                                             WAITING FOR OPERATOR TO SELECT DRIVES
    829
830
831
             1400 0243
    832
833
834
                                                                                             WAITING FOR OPERATOR TO SELECT TESTS
                                              HLT2
                                                                                 ٥ĸ
              1481 9412
    835
836
837
                                                                                             PROCESSOR HALTED AT ERROR
                                              HLT6
                                                                                 OK
              1402 2102
    838
839
     840
841
842
843
844
845
              1403 2131
                                                                                             PROCESSOR HALTED AT END OF TEST
                                              HLT10
                                                                                 OK
                                                                                 OK
                                                                                             PROCESSOR HALTED AT ERROR (AC SW 0 = 1)
              1404 4220
                                              HLT16
     846
847
848
849
850
851
                                                                                 OK
                                                                                             PROCESSOR HALTED AT END OF
STATISTICAL INFORMATION DUMP (SA WAS 202)
                                              HLT20
              1405 0204
     852
853
854
855
856
857
858
869
869
              1406 1474
                                               HLT7
                                                                                 oĸ
                                                                                             PROCESSOR HALTED AT ERROR (AC SW \theta = 1)
                                                                                 FATAL AUTOMATIC PROGRAM RESTARTS EXCEEDED 4
              1407 2261
                                               HLTS
                                    PATTERN OVERVIEW - AC SWITCHES 9-1-2
                                              0 - RANDOM DATA
1 - ALL 1'S
2 - 00110011
     862
863
864
                                                                                 4 - 10101010
5 - 01010101
                                               2 - 00110011
3 - 11001100
                                                                                 6 -
7 - ALL 0'8
     865
866
867
                                    TEST OVERVIEW - AC SWITCHES 3-4-5
                                                                                     4 -READ (CRC CHECK)
                                               0 - THE ACCEPTANCE TEST
                                                                                                                                                                                   SEQ 0054
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                    PAL10 V142A
                                                                                             9-JUN-76
                                                                                                                    16:55
                                                                                                                               PAGE 1-19
                                              1 - WRITE-READ
(CRC CHECK)
2 - WRITE-READ-READ
CHECK (PROGRAM
                                                                                             5 - WRITE ONLY
     871
872
873
                                                                                             6 - NOT THE ACCEPTANCE TEST
                                                                                                   (BUT SIMILAR)
     874
875
876
                                                     VERIFY)
                                               3 - THE COUNTER PART OF 7
(TEST 2, READ-PROGRAM VERIFY)
                                                                                              7 - THE COUNTERPART OF TEST 0
(READ-PROGRAM VERIFY)
     877
                                    SEQUENCE OVERVIEW - AC SWITCHES 6-7-8
     879
     889
881
882
                                    /TRACK ACCESS SEQUENCE IS SELECTED VIA AC SWITCHES 6,7,8 AT L/S 200
                                    / 1 - INCREMENTAL OD TO ID
/ 2 - DECREMENTAL ID TO OD
/ 3 - COMBINATION OF SEQ 8, AND SEQ 1 (INC/DEC)
     885
886
887
888
                                    / 4 - BOUNCE ID TO OD ONLY
/ 5 - BOUNCE; (ID, OD ; ID-1, OD+1; ...ETC TO 47, 45)
/ 6 - STROBE; (ID, OD ; ID-1, OD ; ...ETC TO 1, 0)
/ 7 -
     889
890
891
                                    /PDP-8/E AUGMENTED INTRUCTIONS
     892
893
894
                                    BSW DEFINED AT A LATER POINT ON PAGE 0
                        6002
                                    IOF=6002
                                                           /CALL WILL CHECK THE HARDWARE SW OR LOC 20 DEPENDING ON THE STAET OF THE SWITCH REGISTER BIT IN LOCATION
     895
896
                         4407
                                    LAS=CKSWIT
     897
     898
899
900
901
902
903
                                    MQA=7581 / "OR" (MQ) WITH (AC)
MQL=7421 / MQ=AC (THEN CLEAR AC)
/ACCUMULATOR SWITCH REGISTER DEFINITIONS
                        7501
7421
                                    MQA=7501
MQL=7421
                                    /
SW0=4000
                         4990
                        2000
1000
6400
      904
                                    SW1=2000
SW2=1000
      905
     906
                                    SW3=400
     907
908
                         0200
                         9199
                                    3W5=100
                         0040
0020
0010
                                    SW6=40
SW7=20
      909
     910
                                    SW8=10
     912
913
                                    SW9=4
SW10=2
      914
                         9991
                                    SW11=1
     915
916
917
                                    /ITERRUPT SERVICE POINTERS
                         2000
     918
919
                0000
                         B364
                                                304
                                                                                              /REVISION D
```

9001 5402

3400

0002

0003

JMP I .+1

PΙ

XA10.

```
9-JUN-76
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                        PAL10 V142A
                                                                                                                                                                                           SEQ 0055
                                    /PROGRAM LOCATIONS XXX AND YYY ARE TEMPORARY STORAGE REGISTERS FOR DATA /OR FOR ADDRESSES OF DATA WHICH ARE CALLED WITHIN SUBROUTINES WHICH /DO NOT CALL SUBROUTINES WHICH CALL THESE STORAGE REGISTERS
    927
    928
929
                                    XXX AND YYY ARE CALLED WITHIN THE FOLLOWING SUBROUTINES
    930
931
932
    933
934
935
936
937
                                    /RDORWR (2)
                                    /DD/RX-ERROR (2)
/LOCK (2)
                                                                                     (2)
                                    /HUNGUP (4)
                                    /5202
                                                                                     (4)
    938
939
940
941
942
943
               0004
                       9999
                                    ххх,
              0005
                       9999
                                    YYY,
                                     .
/*******************
                                    /CONSOLE
    944
945
946
                       4406
1221
                                                                                     /LOOK FOR TTY INPUT AND CONTROL CHAR
              9996
                                                XC8FOOK
    947
948
949
950
951
952
                                    CKSWIT= JMS I
                                                                                                 /REPLACES LAS
                                                XCKSWIT
              0007
                       0744
                        9919
                                    +10
    953
954
955
                                    /AUTO-INDEX REGISTER DEFINITIONS
    956
957
958
                       0000
0000
               0011
                                    A11.
                                    A12,
A13,
KØ4ØØ,
    959
960
               0012
                        0000
    961
962
963
964
                        0400
                                               0400
0200
                       0200
                                    KØ2ØØ,
                        8828
                                                *20
    965
966
                                    /THE FOLLOWING PROGRAM LOCATIONS (20, 21, AND 22) ARE RESERVED FOR ACTS/A
    967
968
969
970
971
                                                                         /PSEUDO SWITCH REGISTER SET TO DEVICE CODE 75
/PSEUDO SWITCH REGISTER=0000
/USE HARDWARE SWITCH REGISTER=4000
              0020
0021
                       0750
4000
              0022
                       9999
                                                9099
                                                                         /400 FOR CONSOL PACKAGE ACTIVE
/0000 FOR NONACTIVE CONSOLE PACKAGE
              0023
                      8000
                                                9999
                                                                                                 /RESERVED FOR FUTURE USE.
    975
976
977
                                                 /CONSOLE
    978
979
                        4424
                                                CHECKC8*JMS I
                                                                                     /CHECK IF ON CONSOLE
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                         PAL10
                                                                                                9-JUN-76
                                                                                     V142A
                                                                                                                         16:55
                                                                                                                                     PAGE 1-21
                                                                                                                                                                                           SEQ 0056
              0024 5420
                                                XCHECK
    982
                                                 C8PASS=JMS I
               0025
                       9200
                                                XCBPASS
    985
    986
987
988
                                                C8SWIT= JMS I
                                                                                                             /ASK THE SWITCH REG QUESTION
                        1211
                                                XXC8PSW
    989
990
991
                                                 AERROR=JMS I .
              0027
                        3351
                                                XAERRO
    992
993
994
                                                CSINGU= JMS I .
                       1205
                                                XXCBING
                                                                                                             /PRINT THE WAITING MES
                                                COCNTL=JMS I .
    995
996
              0031
    997
  998
999
1000
                                    /THE FOLLOWING PROGRAM LOCATIONS "OD", "ID", "FIRST", AND "LAST" MAY BE /CHANGED BY THE OPERATOR MANUALLY HOWEVER FOLLOWING THESE RESTRICTIONS.
   1001
                                                                 THE CONTENTS OF " OD " (MIN VAL 0) MUST BE <= THE CONTENTS OF " ID " (MAX VAL 114).
   1003
   1004
   1006
                                                            2. THE CONTENTS OF "FIRST" (MIN VAL 1) MUST BE <= THE CONTENTS OF "LAST" (MAX VAL 32)
  1007
1008
1009
                                    THE PROGRAM WILL VERIFY THAT THESE PARAMATERS ARE WITHIN THE PERSCRIBED LIMITS, IF THE PROGRAM VERIFICATION DETECTS AN IRREGULARITY - THEM THE PARAMATER OUT OF BOUNDS WILL BE SET TO ITS PROPER VALUE AUTOMATICALLY
  1010
  1013
1014
1015
                                    THE PROGRAM WILL PRINT A COMFIRMATION MESSAGE IF THESE PARAMATERS ARE NON STANDARD
                       0001
0114
0001
                                   ÓD,
               0032
                                                                                     OUTSIDE DIAMETER (MIN VALUE 0;
              0033
0034
                                   ID,
FIRST,
   1016
                                                                                     /INSIDE DIAMETER (MAX VALUE 114)
/FIRST SECTOR TO ACCESS (MIN VAL 1)
/LAST SECTOR TO ACCESS (MAX VAL 32)
   1017
                        0032
                                    LAST,
                                               32
  1019
                                    /PDP-8/E AUGMENTED INSTRUCTIONS
  1021
1022
1023
                     4436
5144
                                   BSW=JMS I .
XBSW
              0036
                                                            /PROGRAMMED BYTE SWAP
  1024
1025
1026
                                    /DISKETTE IOT SUBROUTINES
  1027
                                    LCD=JMS I
                       4226
              0037
                                               XI.CD
  1029
                       4440
4233
                                    LCDA=JMSÎ
                                               B I .
XLCDA
              0040
  1031
1032
                        4441
4260
                                   LCDB#JMS I , XLCDB
```

XDRIN=JMS I

XXDRIN

4442 0522

0042

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                      PALID
                                                                                 V142A 9-JUN-76
                                                                                                                      16:55 PAGE 1-22
                                                                                                                                                                                      SEQ 0057
                                   xDROUT=JMS I
  1035
                       0525
4444
                                  STR=JMS 1 .
XSTR
                                               XXDROUT
   1637
                       0531
4445
0536
  1038
              0044
                                   SER#JMS I
                                               XSER
              0045
   1040
             9045 9536
4446
9046 9543
4447
9047 4415
                                   SDN=JMS I
                                   XSDN
INTR#JMS I .
   1042
   1043
                                   XINTR
INIT*JMS I .
XINIT
              0050 4423
   1045
                                    OPERATING SYSTEM SUBROUTINES
   1047
   1048
                       4451
                                   DELUNITEJMS I .
              0051 2275
4452
0052 4707
                                   XDELUNIT
DONE=JMS I .
XDONE
                                                                       /DELETE FROM (UNITS) UNITX
   1050
   1051
                                                                                              FORM: "DONE; NO; YES"
                                   GETASECTOR=JMS I .
XGETASECTOR
                       4453
   1053
   1054
1055
1056
              0053
                       3007
                                   GETATRACK=JMS I
                       4454
                                   XGETATRACK
GETUNITEJMS I .
                                                                       /GET A TRACK FOR IOT LCD-B (TRACK #)
              0054
   1057
                       4455
                       2200
                                                                      JELECT A DISKETTE DRIVE
              9055
                                               XGETUNIT
                                    HLT=HALT
                       4456
   1059
              4456
0056 5126
4457
0057 3060
                                   HALT=JMS I
                                   INITSECTORS=JMS I ,
XINITSECTORS
   1062
   1063
                                   INITTRACKS=JMS I ,
XINITTRACKS
/LOCK THE COUNTER THAT OVERFLOWED AT -1
              4460
0060 2413
   1065
   1066
   1067
1068
                                    /FORM: LOCK; LSB; MSB (OR IF NO MSB THEN K7777)
   1069
                                   LOCK=JMS I .
XLOCK
LOG=JMS I .
                        4461
                       2400
4462
3502
              0061
   1071
   1072
1073
1074
                                   LOG=JMS I .
XLOG
PRINT=JMS I .
XPRINT
               0062
                                                                       /LOG ALL ERRORS (IF ANY), FORM: "LOG; (X)ERRORS"
               9063 3227
   1075
1076
1077
                                                                       /PRINT A MESSAGE; FORM: "PRINT; MESSAGE"
                                   PRINTDRIVESELECTED JMS I ... XDRIVESELECTED READ=JMS I ...
              9064 2331
   1078
1079
1080
                        4465
                                   READEJMS I .
READCOMPARE#JMS I .
XREADCOMPARE
SETUP#JMS I .
                       1400
4466
1352
               0065
               0066
   1981
   1082
                        4467
                                    XSETUP
SPECIALTYPE=JMS I .
XSPECIALTYPE
   1083
                        2135
447Ø
               0067
   1085
1086
1087
                       4517
4471
2104
               0070
                                    STOP=JMS I .
XSTOP
                                                                       /STOP TEST AT COMPLETION IF AC SW 1 = 1
               0071
                                    TAB#JMS I . XTAB
    1088
                       3200
                                                                                               FORM: " TAB; N "
   1089
 /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                       PAL16 V142A 9-JUN-76
                                                                                                                       16:55 PAGE 1-23
                                                                                                                                                                                       SEQ 0058
                                    TY40CT=JMS I
                        4473
    1090
    1091
1092
1093
               0073 2676
4474
0074 3272
                                    XTY40CT
TYPEIT=JMS I .
XTYPEIT
                                                                        /TYPE (4) OCTAL : FORM: " TY40CT: OCTAL "
                                                                                               /TYPE (1) 8 BIT ASCII; (AC) AT ENTRY = ASCII
    1094
                                     /----
                                     THESE ROUTINES HAVE BEEN REMOVED. ONLY OCTAL VALUES WILL BE PRINTED.
    1096
    1097
                                     /TYSW9=JMS I
                                    / XTYSW9
/TY4DEC=JMS I
                                                                        /TYPE OCTAL (SW9 = 0) OR DECIMAL VALUES
    1099
1100
1101
                                     / XTY4DEC
/TY8DEC=JMS I .
/ XOCTDEC
                                                                        /TYPE (4) DECIMAL; FORM: (AC=DECIMAL); TY4DEC
    1102
                                                                        /TYPE (8) DECINAL; FORM: "TYBDEC; LSB; MSB"
                                     /TYBDEX=JMS I . XTYBDEX
                                                                        /TYPE (8) DECIMAL < 4896 MAGNITUDE; FORM; "TYSDEX; LSB"
    1104
    1105
    1107
1108
1109
                                     TYBOCT=JMS I . XTYBOCT
                0075 4751
                                                                                                /TYPES 8 OCTAL DIGIT FROM DOUBLE /PRECISION LOG.
    1110
1111
1112
1113
                         4476
4723
4477
                                     DRVSEL=JMS I
                                                                                    /DRIVE SELECT ROUTINE FOR APT-8
                0076
                                                XDRVSL
                                    APTREJMS I
                                    XAPT8
CHEK22=JMS I
    1114
1115
1116
                        0343
4500
4714
                0077
                                                                                                /WILL TEST FOR APT SYSTEM
                0100
                                                CHK22
    1117
1118
1119
                         4501
1200
4502
                                     WRITERJMS . I
                                    XWRITE WAIT=JMS I .
                0101
                                                XWAIT
    1120
1121
                0102
                         2352
                                     OPERATING SYSTEM ALLOCATED STORAGE REFERENCES
     1122
    1123
1124
1125
                                     A MAX OF 4 AUTOMATIC RESTARTS PERMITTED PRIOR TO U-HALT
                                                                                    /MAXIMUM OF 4 AUTO RESTARTS PRIOR TO PDP HALT
/= 1 - PROCESSING AN RXS1 PROGRAM INTERRUPT
/DISKETTE COMMAND ; (AC) AT LCD
/PROGRAM DATA COMPARE ERRORS
/ (7777) IS 1ST ERROR THIS PASS
/ (7777) IF 1ST ERROR EVER FOR PROGRAM
/COUNTER TO DETECT DEVICE TEST HUNG
/ # OF AUTOMATIC INTERUM STATISTICAL REPORTS
/ CONSTANT
/ CONSTANT
/ CONSTANT
                        6666
6666
6666
                                     ARESTARTS,
                0103
    1126
1127
                0104
0195
                                     BUSY,
COMMAND,
                         9690
7777
7777
7740
     1128
                0106
                                     COMPRERROR.
    1129
1130
1131
                0107
0110
0111
                                     EPASS,
FIRSTERROR,
                                                             7777
                                                            7777
-40
                                     HANGER.
    1132
1133
1134
1135
1136
1137
                0112
0113
0114
                         0000
7777
7772
                                     IDUMP,
K7777,
                                                            ø
-1
                                     KM6.
                0115
0116
0117
                         7770
7740
7704
                                     KM10,
KM40,
KM74,
                                                                                     / CONSTANT
/ CONSTANT
                                                             -48
-74
                                                                                       CONSTANT
                         0012
                                     K12,
                                                             12
                                                                                       CONSTANT
     1139
                0121
                         8816
                                     K16.
                                                                                      CONSTANT
    1140
                                     K74,
K0750,
                Ø122
                                                                                     / CONSTANT
                0123
                         9750
                                               0750
     1142
1143
1144
                                     XCNT,
K377,
```

K7377. 7377

Ø126

7377

/ CONSTANT

)

```
SEG GGS9
```

```
PAL10 V142A 9-JUN-76
                                                                                                                                          16:55 PAGE 1-24
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                         K6520, 6520
K0007, 0007
                                                                                                 /USED FOR ERROR REPORTER FOR APT.
                           6520
                                         KUMA7, 0007
PASSINPROGRESS, 6
   1147
                           0007
                 6131
                                                                                                 / = 1 IF A TEST PASS IS IN PROGRESS
/ = 0 IF A RDC TEST, = 1 IF READ, 4000 IF WRITE
/ 1 ORIGINAL TRY + 10 RETRYS
                           8000
                           0000
7765
                                         RDC,
KRETRY,
                 0133
                                                                                                1 ORIGINAL TRY + 10 RETRYS
NEGATIVE # OF SECTORS PER TRACK (1-32 OCTAL)
/SECTOR LAST ACCESSED ( 0 = "HOME" )
/TARGET SECTOR OF (UNITX)
/TRACK LAST ACCESSED
/DISKETTE STATUS " A " AT INTERRUPT (ERROR OR DONE)
/RX01 DEFINITIVE ERROR CODE REGISTER
/STATUS FROM A "READ STATUS" COMMAND
/TARGET TRACK OF (UNITX)
/TEST PARMATERS (SELECTED FROM AC SWITCHES)
/INTERLEAVE FACTOR (1, 2, 3)
                 0134
                 0135
                           7746
9999
                                         SECTORS,
                                                                     -32
                                         SSTART,
STARGET,
                 Ø136
Ø137
   1152
   1153
1154
                           0000
                           0000
0000
                                         START.
                                          ASTATUS,
                 0141
0142
   1155
                           8000
8000
                                          BSTATUS.
                                         CSTATUS,
TARGET,
                 0143
0144
0145
0146
   1157
                                         TESTP,
IF,
BSWAC,
                           9999
9999
   1160
                            9990
                                          BSWLINK,
    1163
                                          THE FOLLOWING K0007 RETRY COUNTERS MUST REMAIN IN THE ORDER DEFINED
   1164
1165
                                          BECAUSE REFERENCES TO THESE LOCATIONS ARE FROM SUBROUTINE XLOG
    1166
                                                                                                               /WRITE ERROR RECOVERY
                                          RIRETRY,
                                                                     -13
                                                                                    /WERRORS
                 0151
    1168
                                                                                                               /WRITE ERROR RECOVERY
/READ ERROR RECOVERY
/DATA ERROR WITH CRC STATUS ERROR
/DATA ERROR BUT NO CRC STATUS ERROR
/CRC STATUS ERROR BUT NO DATA ERROR
/SEEK ERROR RECOVERY
/PARITY ERROR RECOVERY
    1169
1170
1171
                 Ø152
Ø153
Ø154
                           7765
9999
9999
                                          R2RETRY,
                                                                      -13
Ø
                                          DWSLOG,
DNSLOG,
SNDLOG,
                                                                                    /DNSERRORS
                                                                                    /SNDERRORS
/SERRORS
    1172
1173
1174
                 Ø155
Ø156
Ø157
                            0000
7765
7765
                                          SRETRY
                                                                                    /PERRORS
    1175
1176
1177
                                            (TRACKS) ARE SET TO THE NEGATIVE DIFFERENCE BETWEEN (OD), AND (ID) IN THE SUBOROUTNE "INITTRACKS "
    1178
                                          0160 7663
0161 0115
    1180
    1181
                                          /THE REAL TIME CLOCK NO LONGER AVAILABLE.
/THIS WAS DONE TO CONSERVE SPACE AND RUN TIME.
/XSUBCPS. -21 / THE CLOCK IS SET AT ONE TICK =10 MILL SECONDS

************* THE RTC IS TO BE SET TO -21 FOR A 10 MSEC CLOCK
    1183
    1184
1185
1186
                                           /SUBCPS,
/CPS, ~6
                                                                      -21
    1188
    1190
                                                                                                 / ; (AC) = TRACK+SECTOR AT IOT LCD-B ; DESTINATION
/ 60 SECONDS PER MINUTE
/ 60 MINUTES PER HOUR
    1191
1192
                                          YTARGET.
                  Ø162 ØØØØ
                                                                      ø
                                           /SECOND,
    1193
1194
1195
                                           /HOUR,
                                           // 0 / HOURS TO 16777215

/TICK, 0 / % 1 MEANS CLOCK IS TICKING

/THE ABOVE CONSTANTS REMOVED. REAL TIME CLOCK NO LONGER AVAILABLE.
    1197
    1198
                                           TIME AT DETECTION OF AN ERROR
    1199
                                                                                                                                                                                                                       SEQ 0060
 /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                9-JUN-76
                                                                                                                                                         PAGE 1-25
                                                                                    PAL18
                                                                                                 V142A
                                           /ESECOND,
     1201
     1202
                                           /EMINUTE,
                                            /EHOUR,
     1264
     1206
                                                                                                  / COMMAND IN ERROR
/ STALL FOR DEVICE TEST HUNG
/ = 1 MEANS PROGRAM EXPECT INTERRUPT REQUEST FROM RX01
                                           ECOMMAND,
                   0163 0000
      1207
     1208
                             0000
                                            GOBIT.
     1210
                                            / (SUMCHECK) IS A NUMBER GENERATED WITHIN SUBFOUTINE " GETWORD "
/EQUIVALENT TO SUMCHECK OF 62/126 [ 12/8 BIT MODE] DATA WORDS
     1212
                             9999
                                            SUMCHECK.
                                                                       0
                   Ø166
```

```
1213
1214
1215
                                      LSB.
1216
1217
                        9999
                                      MSB,
TTYBUSY,
                        8666
                                                                                                 = 0 MEANS NOT BUSY, = 1 BUSY = 4000 MEANS <CTRL>S
                        6666
6666
1218
                                                                                              /DYNAMIC SUBTEST DIRECTIVE
                                      STESTP.
1220
                                      / (USTART) = 4000 MEANS [KEY], = 0 MEANS STARTING UNIT WAS 0 / = 1 MEANS STARTING UNIT WAS 1
 1222
1223
                                       ÚSTART,
                                                                  4000
                        4000
              0173
                                     GOOD,
SUNITS, Ø
XXKCC, XKCC
+200
                                                                                / EXPECTED DATA PATTERN
/SAVE UNITS FOR $202 STATICAL REPORT
1225
1226
1227
                        0000
0000
5304
             0174
0175
1228
1229
1230
                         9299
                                                     /CONSOLE
 1231
                                                                                                            /STARTING ADDRESS 200
                                      C8STRT, JMP BEGIN
JMP BEGIN-1
1232
              0200
0201
                        5207
5206
                                                                                              /RESTART 201
1234
                       3171
4777
4456
5203
                                                    DCA TTYBUSY
                                      JMS 5292
HLT20, HLT
JMP --2
/PRIME THE AUTOMATIC INTERUM STATISTICAL REPORT (IDUMP), AND
/PRIME THE RETURN ADDRESS OF THE STATISTICAL (DUMP) SUBROUTINE
              0203
0204
0205
 1236
 1236
1237
1238
1239
 1240
                                       /WHEN ($202) NOT = 0, THEN THE STATISTICAL REPORT WAS MANUALLY INITIATED /BY THE OPERATOR IN CHARGE
 1242
1243
1244
1245
                                       /
//HEN ($202) = 0, THEN THE STATISTICAL REPORT IS AN INTERUM DUMP
/AUTOMATICALLY PRINTED BECAUSE A/OR ALL DISKETTE UNITS(S) HAVE
/FOR SOME REASON BEEN DESELECTED FROM TESTING.
 1247
 1248
                                                                                               /LS 201 (SAME AS AUTORESTART)
/TEST FOR APT-0
                                                     TAD (XNONE)
                         1376
               9296
               #207
#210
#211
                         4477
3777°
3775°
                                       BEGIN, APT8
DCA $202
DCA XLOCK
DCA TTYBUSY
DCA BUSY
 1251
```

```
PAL10
                                                                          V142A
                                                                                      9-JUN-76
                                                                                                            16:55 PAGE 1-26
                                                                                                                                                                       SEQ 0061
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                     1116
                                           TAD KM40
   1256
1257
                                           DCA HANGER
DCA SSTART
DCA TARGET
             Ø216
Ø217
Ø220
  1258
                     3136
3144
7240
                                           STA
DCA FIRSTERROR
   1260
             Ø221
                     3110
7240
3107
   1261
                                           STA
DCA EPASS
   1262
             0223
0224
   1263
1264
   1265
                                            /CONSOLE
                                           1267
                                                                            /PRINT THE ID AND REMOVE MESS
/BEFORE PRINTING DO A CAF
/WAIT FOR CONTROL E TO CONTINUE
             0225 4774
   126B
   1269
1270
   1270
1271
1272
1273
1274
1275
1276
                                            /********
                                                                                       /WAIT FOR SDN FLAG. TIME OUT IF YOU /DON'T GET IT.
             0226 4502
                                            WAIT
                     4446
4445
7410
4773*
                                 SDNFIRST,
SER
                                                       SON
              0230
   1277
                                           SKP
              B232
                                            JMS FORCE
   1278
                                 /IF ($202 NOT = 0, THEN L/8 201, IF ($202) = 0, THEN L/S 200
   1279
1289
1281
   1282
1283
1284
                                 THE LABLE "XLS" MUST RESIDE HERE BECAUSE OF REFERENCES WITHIN THE ERROR SERVICE
                                           TAD 8202
SZA CLA
JMP AUTORESTART
DCA ARESTARTS
DCA IDUMP
CHEK22
             9233 1777'
9234 7640
9235 5247
9236 3193
9237 3112
9240 4590
                                 XLS,
   1285
   1286
   1288
                                 5200.
                                                                                        /SEE IF ON APT
   1290
   1291
1292
1293
1294
1295
1296
1297
1298
1299
                                            DRVSEL
                                            /**********
                                             JMS COCKSELECT
                                                                             /SELECT DISKETTE AND WAIT FOR SW QUESTION
              8242 47.72°
                                 #243 4456
#244 4407
#245 #371
                                 HLT1.
   1300
1301
1302
    1303
                                 THEREFORE THE PROGRAM WILL AUTOMATICALLY ATTEMPT TO SELECT ALL /DISKETTE DRIVES WHICH HAVE BEEN " POWERED UP ".
   1304
   1306
                                 /
/THF PROGRAM WILL ISSUE THE COMMAND "READ STATUS REGISTER"
/SELECTING EACH DISKETTE UNIT
   1308
 /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                  PAL10
                                                                            V142A 9-JUN-76
                                                                                                              16:55 PAGE 1-27
                                                                                                                                                                        SEQ 0062
                                 /THE PROGRAM WILL DO THIS BY SEQUENCING FROM DRIVE 0 THRU (MAX) /SAMPLING THE STATUS REGISTER FOR THE CONDITION "SEL DRY RDY"
   1311
1312
1313
1314
                                  /
/IF THE CONDITION "SEL DRY RDY" IS NOT FOUND, THAT (UNIT) IS NOT
                                  SELECTABLE AND DELETED FROM THE MAXIMUM SYSTEM CONFIGURATION (UNITS).
    1315
    1316
              0246 7450
                                            SNA
                                  REFRESH PROGRAM LOCATIONS WUNITS, UNITS, AND BUSY FOR AN AUTORESTART (AND LS 201)
    131R
              0247 1371
0250 3770°
0251 3767°
                                  AUTORESTART, TAD (6000)
                                                                             MAXIMUM SYSTEM CONFIGURATION 2 DISKETTE DRIVES
    1320
                                            DCA UNITS
DCA WUNITS
DCA BUSY
    1321
                                                                             /REFRESH FOR FIRST ENTRY INTO " XGETUNIT "
    1323
                      3104
               0252
                      7330
3766°
1116
                                             STL CLA RAR
DCA UNITZ
TAD KM40
DCA HANGER
    1324
               Ø253
                                                                  / TO SET INTO USTART WITHIN XGETUNIT
               0254
0255
    1325
    1326
    1327
1328
1329
               0256
0257
0260
                      3111
4455
1134
3157
                                            GETUNIT
TAD KRETRY
DCA PRETRY
                                  AUTO,
                       1120
                                  AUTOL,
                                             TAD K12
    1332
               0263
                                             LCDA
    1333
1334
1335
                                   RETURN TO HERE FROM AN RX81 INTERRUPT
                                  THE LABLE "JMPAUTOOK" MUST RESIDE HERE BECAUSE OF REPERENCES AT "PI"
    1336
              0264 5277
0265 5267
0266 5765°
                                  JMPAUTOOK, JMP AUTOOK
    1338
    1339
1340
1341
                                             JMP AUTOERROR
JMP XPI
                                  RETURN IS HERE TO AUTOERROR IF A PARITY ERROR ON THE COMMAND WORD
    1343
                     2157
7410
5277
4407
0015
7650
    1344
1345
1346
               9267
                                  AUTOERROR, ISZ PRETRY
                                             SKP
JMP AUTOOKNOTOK
               0271
     1347
1348
1349
               0272
0273
0274
                                             LAS
AND KØ2ØØ
SNA CLA
     1350
1351
1352
                                             JMP AUTOL
DCA PRETRY
               0275
                       5262
                                   RETURN IS HERE TO AUTOOK IF NO ERROR OCCURED
     1353
1354
                                   /THEREFORE LOG A SOFT PARITY ERROR
     1355
     1356
1357
                                   / (OR TO LOG A HARD P ERROR)
     1358
                       4462
7315
1141
0015
     1359
                                   AUTOOK, LOG
               0277
               0300
0301
                                             PERRORS
     1360
                                                                              /LOG H OR S PARITY ERROR
                                             TAD ASTATUS
AND KØ2ØØ
     1361
                                                                                         /DRIVE SELECT READY ?
     1362
                Ø3Ø2
```

DELUNIT

```
SEQ 0063
```

SEQ 0064

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```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
```

```
1365
                                             /PROGRAMMING NOTE:
1366
1367
1368
                                            / THE LABEL " XAUTO " MUST RESIDE HERE BECAUSE OF REFERENCES WITHIN /SUBROUTINES " XGETUNIT" AND " XDELUNIT "
1369
1370
                                            XAUTO, DONE
JMP AUTO
PRINTDRIVESELECTED
1371
1372
1373
1374
1375
1376
1377
                0306
0307
                                            /
//IF ENTRY TO HERE WAS FROM OF AN AUTOMATIC DUMP ERROR LOGS
//BECAUSE FOR SOME REASON ANY OR ALL THE UNITS BECAME DESELECTED
//THEN THE TESTING WITH THE (TESTP) PREVIOUSLY SELECTED AT S/A 200
//AUTOMATICALLY CONTINUES
 1378
 1379
                                              (AN AUTORESTART IS EQUIVALENT TO A L/S 201)
 1380
 1381
                                             /
/THE LOGS ARE REFRESHED ONLY AT L/S 200, AND
/AT AN AUTORESTART, AND
/AT A LOG-OVERFLOW
 1383
 1385
1386
1387
                                              /IF THE DRIVES SELECTED FOR THE RESTART ARE NOT THE ORIGINAL SELECTIONS
                                                             TAD XLOCK
SZA CLA
JMP XLOGREFRESH
TAD SUNITS
CIA
TAD UNITS
 1386
1389
1390
                             1775
                            1775
7640
5320
1175
7041
1770
                 0311
0312
0313
 1391
1392
1393
1394
                 Ø314
Ø315
Ø316
                                              SNA CLA
SNA CLA
JMP XS201
/ " DCA XLOCK " PREVENTS ILLEGAL LOG-REFRESH AT RESTART 201
 1395
1396
1397
                 0317
                             5764
                                             XLOGREFRESH, DCA XLOCK
                 Ø320
Ø321
Ø322
                            3775°
4463
5577
 1398
                                                              PRINT
MREFRESH
  1400
                             4463
5624
4475
 1401
                 0323
0324
                                                              PRINT
                                                               MPASSES
                                                              TYBOCT
PASSES
  1403
1404
1405
                  0325
                  0326
                                              /CLEAR ALL LOGS
                                            LOGREFRESH, TAD (LOGS-1)
DCA A10
DCA I A10
TAD A10
TAD A10
TAD A10
TAD SZA CLA
JMP -4
TAD SZ02
TAD (-XNONE)
SZA CLA
JMP NOTEST
JMP XS201
  1406
1407
                  0327
  1408
1409
1410
1411
1412
                             3010
3410
1010
1362
7640
5331
1777
                                                                                                                               / CLEAR
                 0330
0331
0332
0333
0334
                                                                                                                                       ALL
                                                                                                                                    LOGS
  1413
1414
1415
                 Ø335
Ø336
Ø337
                              1361
7640
                 Ø340
Ø341
Ø342
  1416
                             5764
  1418
```

```
PAGE 1-29
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                       PAL10 V142A
                                                                                                                    9-JUN-76
                                                                                                                                                   16:55
                                            /ROUTINE TO DETERMINE IF ON APT-8. IF APT-8 IS SELECTED /THEN CONSOLE AND TEST PARAMETER SELECTION FUNCTIONS ARE NOP. /IF NOT ROUTINE IS NOP.
   1421
   1422
1423
   1424
1425
1426
                            0000
7300
4500
7410
5743
1022
0126
                                            XAPTS,
                  0343
0344
0345
0346
0347
0350
0351
0352
                                                           CLA CLL
                                                          CHEK22
SKP
JMP I
                                                                                                                      /ON APT-9
    1427
                                                                        XAPT8
22
K7377
    1428
                                                           TAD
   1429
1430
1432
1433
1435
1435
1436
1438
1444
1445
1445
1446
1447
1448
1449
1450
                                                                                                                      /NOP CONSOLE PACKAGE /RESTORE 22
                                                           AND
                                                           DCA
JMP
JMP I
                             3022
5757
                                                                                                                      /RET DEVICE CODE IN ADDRESS 20,
/AND EXIT
/USE RELIABILITY FUNCTION,
                                                                          DEVCDE
                  0354
                            5743
                                                                          XAPT8
                             5345
Ø4Ø5
5533
Ø33Ø
6347
Ø4ØØ
Ø676
2272
                  Ø357
Ø36Ø
                  Ø361
Ø362
Ø363
                  0364
0365
0366
0367
0370
                              2271
                              6000
                  0372
0373
0374
0375
0376
0377
                              0734
3605
0722
                              2400
2245
4434
     1451
                              0400
                                                            PAGE
    1452
1453
1454
1455
1456
1457
                                             /THIS ROUTINE HAS BEEN MOVED FROM LOC 405 TO 400 /SAVE ONE LOC BY MOVE
                             2777°
5220
4461
6352
                                                           ISZ RESTARTS
JMP XS2ØX
LOCK
                   0400
0401
                   Ø4Ø2
Ø4Ø3
                                                           RESTARTS
K7777
     1459
1460
1461
                   0404
                              @113
                                              /----
     1462
1463
1464
1465
1466
                                                   SELECT OPERATING PARAMATERS " VIA AC SWITCHES
                                                                          PPP. TTT. SSS. 8/12 DD (10)
                                              NOTEST, PRINT
                                                            MSTEST
      1467
                    0406
                              5563
                                                            1468
      1469
1470
1471
                                                            CHECKCS
                                                                                                        ASK THE SWITCH REGISTER QUESTION /SKIP OVER HLT IN CODE AFTER RETURNING
```

CRSWIT

```
/PX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                          PAL10 V142A 9-JUN-76
                                                                                                                                                                      PAGE 1-30
                                                                                                                                                                                                                                          SEQ 8865
   1474
                                                            HLT
LAS
                  0413 4407
0414 3145
0415 4424
   1476
   1477
                                                            DCA TESTP
CHECKC8
                            4426
7200
    1479
                  0416
                                                            CBSWIT
    1480
                                                                                           /STOP IF ON CLASSIC TO SET UP THE RUNNING SWITCHES
   1481
1482
1483
                                             XS2ØX,CLA
                  0420 7200
   1484
1485
1486
                                              PRIME (SUNITS) = (UNITS) IF EVER A " JMS 5202 "
   1486
1487
1488
1489
1490
1491
1492
1493
                  0421 1776°
0422 3175
                                                            TAD UNITS
                                              / Ø < (FIRST) <= 32
                 0423 1034
0424 7740
0425 5230
0426 7301
                                                            TAD FIRST
                                                            TAD FIRST
SMA BZA CLA
JMP .+3
CLL CLA IAC
DCA FIRST
TAD FIRST
    1495
   1496
1497
                             3034
1034
                   6436
   1498
1499
1500
1501
                  Ø431
Ø432
                              1375
7740
                                                            TAD (-32)
SMA SZA CLA
                                             JMP .-5
/ 0 < (LAST) => (FIRST)
                   6433
                              5226
    1502
                 0434 1035
0435 7740
0436 5241
0437 1374
0440 3035
0441 1035
0442 7041
0443 1034
0444 7747
                                                            TAD LAST
SMA SZA CLA
JMP .+3
TAD (32)
DCA LAST
TAD LAST
   1503
1504
    1505
   1506
1507
1508
   1509
1510
1511
                                                            CIA
TAD FIRST
                                             ... FIRST
SMA SZA CLA
JMP .-6
/ 9 <= ID <= 114
/
   1512
1513
1514
1515
1516
1517
                   0445
                              5237
                  0446
0447
0450
                             1033
7700
5253
                                                             TAD ID
                                                             SMA CLA
                                                             JMP .+3
TAD (114)
DCA ID
TAD ID
   1518
1519
1520
                  0451
0452
0453
                              1373
3033
1033
   1521
1522
1523
                              1372
7740
5251
                  Ø454
Ø455
                                                             TAD (-114)
SMA SZA CLA
                   0456
                                                             JMP .-5
   1524
1525
1526
                                              / Ø <= OD <= ID
                  0457 1032
0460 7700
0461 5264
                                                            TAD OD
SMA CLA
JMP .+3
    1527
   1528
/RX8 DATA RELIABILITY/EXERCISER -DIRX8-D
                                                                                           PAL10
                                                                                                          V142A
                                                                                                                         9-JUN-76
                                                                                                                                                                                                                                          SEQ 0066
                                                            CLL CLA IAC
   1530
1531
1532
                  0463
0464
0465
                           3032
1033
7041
                                                            DCA OD
TAD ID
CIA
                                                            TAD OD
SMA SZA CLA
JMP .-6
   1533
1534
1535
                  Ø466
Ø467
                            1032
7740
                            5262
                   9479
    1536
                                              PRINT THE (TESTP) SELECTIONS AND CHECK FOR NON STANDARD OD, ID, FIRST, AND LAST
    1537
   1539
1539
1540
                  6471 4771°
                                                            JMS CHECK
                                              /BITS 0-3 OF TESTP CONTAIN THE TEST PARAMATER FOR EXECUTION
   1541
1542
1543
                  0472 1370
0473 0145
0474 7112
0475 7012
0476 7012
0477 1367
                                                             TAD (700)
AND TESTP
CLL RTR
   1544
1545
1546
1547
1548
1549
                                                             RTR
                                                             RTR
                              1367
3311
                                                             TAD (TESTS)
DCA XTESTS
                   0500
                                             / SET INTO STESTP FROM TESTP THE 8/12 BIT MODE AND DD BITS /
   1550
1551
1552
                  0501
0502
                              7321
7006
                                                             CLL CLA CML IAC
                                                             RTL
    1553
1554
1555
                  0503
0504
0505
                              0145
7110
3172
                                                             AND TESTP
                                                             DCA STESTP
                                                                                                                          / SUBTEST DIRECTIVE
    1556
1557
1558
                  0506
0507
                                                             TAD I XTESTS
                              3311
5711
0631
                                             DCA XTESTS
JMP I XTESTS
XTESTS, THETEST
    1559
1560
1561
                                              TEST SELECTIONS
    1562
1563
1564
1565
1566
1567
1568
1569
1570
                                                            TEST 0 - THE ACCEPTANCE TEST
TEST 001 - WRITE - READ (CRC CHECK)
TEST 010 - WRITE - READ - READ CHECK (PROGRAM VERIFY)
TEST 011 - READ - PROGRAM VERIFY (COUNTER PART TO TEST 2)
TEST 100 - READ (CRC CHECK)
TEST 5 - WRITE ONLY
TEST 110 - NOT THE ACCEPTANCE TEST (BUT SIMILAR)
TEST 111 - READ - PROGRAM VERIFY (COUNTER PART TO TEST 0)
    1573
1574
                                             TESTS,
    1575
                   Ø512
                              0631
                                                            THETEST
                   0513
0514
                              0610
0606
                                                            TEST1
TEST2
    1576
    1578
                              6662
    1579
                                             TEST7=TEST3
                              8692
    1580
                                                             TEST4
```

0520

8631

)

```
/PX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                PAL10
                                                                                             V142A
                                                                                                           9-JUN-76
                                                                                                                                       16:55 PAGE 1-32
                                                                                                                                                                                                                SEQ 0067
   1585
1586
                                        /TRANSFER DATA REGISTER (FROM) THE RX01 CONTROL
   1587
   1588
                0522 0522
0523 6752
                                        XXDRIN.
                                        K67X2A, 6752
JMP I XXDRIN
                          5722
   1590
                 0524
                                        /TRANSFER DATA REGISTER (TO) THE RX01 CONTROL
   1591
1592
   1593
1594
1595
                0525 0525
0526 6752
0527 7200
                                        XXDROUT,
                                        K67X2B, 6752
CLA
JMP I XXDROUT
   1596
1597
                 0530 5725
                                        SKIP ON TRANSFER REQUEST
   1598
1599
1600
                0531 0531
0532 6753
                                        XSTR,
K67X3, 6753
                                                                                                            /STR. SKIP ON TRANSFER /REQUEST FLAG. /DID NOT GET SKIP.
   1601
1602
1603
                                                      JMP I XSTR
ISZ XSTR
JMP I XSTR
                 0533
                         5731
                                                                                                             /UPDATE RETURN.
                0534 2331
0535 5731
   1604
1605
                                                                                                            /EXIT.
                                         SKIP ON RX01 ERROR FLAG
    1606
1607
1608
                0536 0536
0537 6754
0540 5736
0541 2336
0542 5736
                                        XSER.
                                                                                                            /SKIP ON ERROR FLAG.
/DID NOT GET SKIP.
                                        K67X4,
                                                                  XSER
XSER
XSER
                                                      JMP I
ISZ
JMP I
   1609
1610
1611
    1612
1613
1614
1615
                                         /SKIP ON RXØ1 DONE FLAG
                0543 0543
0544 6705
0545 5743
0546 2343
0547 5743
                                         XSDN;
                                                                                                            /SKIP ON DONE FLAG.
/DID NOT GET SKIP.
                                                      6705
                                        K67X5.
    1616
1617
1618
                                                      JMP I
ISZ
JMP I
                                                                   XSDN
                                                                   XSDN
                                        /IF THE PROGRAMMED INSTRUCTION IMMEDIATELY BEFORE " READ " /IS A " WRITE ", THEN THIS IS A WRITE DATA ERROR, IF NOT, /THEN THIS IS A READ DATA ERROR
    1619
1620
    1621
    1622
1623
                                         /FORM: JMS RDORWR; (READ RETURN); (WRITE RETURN)
    1624
1625
1626
                                        CLL STA RAL
TAD XREAD
DCA XXX
TAD I XXX
TAD I XXX
TAD (-WRITE)
SNA CLA
ISZ ROORWR
JMP I RDORWR
                0550 0550
0551 7344
0552 1766°
0553 3004
0554 1404
0555 1365
    1627
1628
1629
    1630
                           7650
2350
5750
    1631
1632
    1633
                 0560
    1634
    1635
                                          /CONSOLE
                                         /THIS ROUTINE IS USED FOR THE COPASS RETURN TO REENTER THE PROGRAM
                                                                                                                                                                                                                 SEQ 0068
/RXB DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                 PALIS
                                                                                               V142A
                                                                                                            9-JUN-76
                                                                                                                                        16:55
                                                                                                                                                  PAGE 1-33
    1639
                           6001
                                        CBRET1, ION
                 0561
    1640
1641
1642
                 9562
9564
9565
                          5764°
2123
3277
                                                                    PASSRETURN
                 0566
0567
0570
    1643
                           1400
    1645
1646
1647
1648
1649
1650
                           8788
                 0570
0571
0572
0573
0574
0575
                            7664
                           Ø114
                           9032
7746
2270
    1651
                            Ø698
    1653
1654
1655
                           1377
7410
                 9699
                                         TEST4,
                                                      TAD (READ)
                                                      TAD (READ)
SKP
TAD (READCOMPARE)
DCA DOB
TAD K7000
JMP DCADOA
                 Ø6Ø1
Ø6Ø2
                                         TEST3,
                            1376
                           3223
1127
5215
    1656
1657
                  0603
                  Ø6Ø4
Ø6Ø5
    1658
    1659
1660
                           1376
7410
1377
                                                      TAD (READCOMPARE)
SKP
TAD (READ)
                  8686
                                         TEST2,
                 0607
0610
                                         TEST1,
    1661
                  9611
9612
9613
                           7410
1127
3223
                                                       TAD K7000
                                                      DCA DOB
TAD (WRITE)
     1664
     1665
1666
                            3222
                                          DCADOA, DCA DOA
     1667
                                          / TESTS 1, 2, 3, 4, 5, OR 7
     1668
    1669
167Ø
                  0616 4460
0617 4455
0620 4454
                                                      INITTRACKS
                                          TEST.
                                                       GETUNIT
                                          TESTL, GETATRACK
     1673
                                          /

/IF THIS IS TEST # 7 THEN " JMS ACCEPT " BECAUSE THIS IS THE READ-PROGRAM VERIFY

/COUNTERPART TO THE ACCEPTANCE TEST # 0
    1674
     1676
                  Ø621
Ø622
Ø623
                           4261
4501
4465
2160
5220
4471
                                                       JMS ACCEPT
WRITE
READ
     1677
1678
     1679
                                          DOB.
    1680
1681
1682
                  0624
0625
                                                       ISZ TRACKS
JMP TESTL
STOP
                  0626
     1683
1684
                            5216
5216
                                                       JMP TEST
JMP TEST
     1685
```

/THIS IS THE ACCEPTANCE TEST (DEFAULT TEST SELECTION . 0)

/ (STESTP) IS THE DYNAMIC SUBTEST DIRECTIVE

THETEST, INITTRACKS

THIS TEST WILL SEQUENCE THROUGH ALL 8/12 BIT MODE AND DELETED DATA SELECTIONS

1686

1689 1690

1691

1692

```
PAL10 V142A
                                                                                                                       9-JUN-76
                                                                                                                                                     16:55
                                                                                                                                                                    PAGE 1-34
/RXS DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                                                                                                                                      SEQ 0069
                  0632 4455
                                                           GETUNIT
   1693
   1694
1695
1696
                                            /FORCE THE ACTUATOR SEQUENCE = Ø (INCREMENTAL Ø=114)
                                            /PROGRAMMING NOTE:
   1697
1698
1699
                                             THE CODE FROM LABLE " THEL " TO LABLE " XTHEL " IS EQUIVALENT TO " GETATRACK "
   1700
1701
1702
                            1374
3773"
1144
3140
5772"
4261
4501
4466
2160
5233
4452
                  Ø633
Ø634
                                             THEL,
                                                           TAD (XTHEL)
                                                           DCA XGETATRACK
   1703
1704
1705
                  0635
0636
0637
                                                           DCA START
JMP SEQINC
JMS ACCEPT
                  9649
9641
9642
9643
9644
   1706
                                            XTHEL.
                                                           WRITE
READCOMPARE
    1708
1709
1710
                                                           ISZ TRACKS
JMP THEL
DONE
    1711
1712
1713
                                             JMP THETEST
/ACTUATOR MOVEMENT (NOW) IS THAT SELECTED AT START (BITS 6,7,8 OR TEST P)
    1714
1715
                            4460
4455
4454
4261
4466
2160
5251
                                            XXTHEL, INITTRACKS
GETUNIT
XYTHEL, GETATRACK
JMS ACCEPT
READCOMPARE
    1716
1717
1718
                  0650
0651
0652
    1719
1720
1721
                   0653
                  0654
0655
                                                            ISZ TRACKS
JMP XYTHEL
    1722
1723
1724
                             4471
5247
                                                            STOP
                   0656
                                             JMP XXTHEL
JMP THETEST
/IF THIS IS THE ACCEPTANCE TEST # Ø THEN:
                  0660
                             5231
    1725
1726
                                              , IF THE TARGET TRACK = X, THE SUBTEST DIRECTIVE (STESTP) WILL = Y
    1727
    1728
1729
1730
                                                            TARGET
                                                                                          SUBTEST
                                                                                          DIRECTIVE
                                                            TRACK
    1731
1732
1733
                                                                X
                                                                                                                                       / 12 BIT MODE
/ 12 BIT MODE WITH DELETED DATA
/ 8 BIT MODE
/ 8 BIT MODE WITH DELETED DATA
    1734
1735
1736
1737
1738
1739
1740
    1741
1742
1743
1744
1745
                                                            114
    1746
1747
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                         PAL10 V142A
                                                                                                                       9-JUN-76
                                                                                                                                                      16:55
                                                                                                                                                                    PAGE 1-35
                                                                                                                                                                                                                                      SEQ 0070
                                             / " ACCEPT " IS A SUBROUTINE WHICH RESETS (STESTP) THEREBY REGULATING THE EXECUTION /OF 8/12 BIT MODE AND DELETED DATA
    1748
   1749
1750
1751
                                            ACCEPT.
                  0661
                             8661
                                                           TAD TESTP
AND (700)
                             9661
1145
9371
7459
5271
1370
                  Ø662
Ø663
    1752
1753
                                                           SNA
JMP TØT7
TAD (-700)
SZA CLA
JMP I ACCEPT
CLL CML CLA IAC
    1754
1755
1756
                  Ø664
Ø665
                  0666
    1757
1758
1759
                  0667
0670
0671
                             7640
5661
7321
                                            TØT7.
                                                            RAL
AND TARGET
    1760
                   0672
                             7994
                  Ø673
Ø674
                             Ø144
3172
                                              DCA STESTP
JMP I ACCEPT
/WAIT FOR A PROGRAM INTERRUPT REQUEST
    1762
    1763
1764
1765
                  Ø675
                            5661
    1766
1767
1768
                                             BUT WHILE WAITING, DISPLAY IN THE MQ THE CODED INFORMATION /AS INDICATED BY ACCUMULATOR SWITCHES 9, 10, AND 11 AT RUN-TIME
    1769
1770
1770
                                                                          0 = TARGET TRACK AND SECTOR
1 = TEST PARAMATERS (SELECTED FROM SA 200)
2 = "A " STATUS
3 = "COMMAND" WORD TO RX01
    1772
1773
1774
                                                           ION
TAD KM40
DCA HANGER
LAS
AND (SW10+SW11)
TAD (TAD I DISPLAY)
    1775
1776
1777
                  0676
0677
0700
                             6001
1116
3111
                                             XPI.
    1778
1779
1780
                  0701
0702
0703
                              4407
Ø367
1366
    1781
1782
1783
1784
1785
                             3305
1716
7421
2164
5301
                  0704
0705
                                                            DCA .+1
TAD I DISPLAY
                                                           MQL
ISZ H1
JMP XPI+3
ISZ HANGER
JMP XPI+3
CLA
                   9796
                   0707
0710
    1786
1787
1788
                   0711
0712
0713
                             2111
5301
7200
                                             TAD (XPI)
JMP HUNGUP
DISPLAY, XTARGET
TESTP
ASTATUS
    1789
1790
1791
                   0714
0715
0716
                              1365
5764°
Ø162
                   0717
0720
0721
    1792
1793
                             Ø145
Ø141
    1794
                              0105
                                                            COMMAND
    1794
1795
1796
1797
1798
1799
                                              /***************/CONSOLE
                                              /**************
                                                                                                         /CALLED FROM LOCATION 225
/PRINT ID AND REMOVE, WAIT FOR CONTROL E
/IF NO CLEAR BY FRONT PANEL THEN DO IT HERE
                   0722
0723
0724
                                              PNTID, Ø
    1800
1801
```

CAF

PRINT

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                 PAL10
                                                                                              V142A
                                                                                                            9-JUN-76
                                                                                                                                                    PAGE 1-36
                                                                                                                                        16:55
                                                                                                                                                                                                                 SEQ 0071
                                                      MIDENTIFICATION /PRINT THE ID
                          4463
5452
4424
4406
   1804
1805
                0726
0727
                                                      REMOVE
                                                                                 /PRINT REMOVE DIAG DISK
  1806
                0730
0731
                                                     CHECKCE
                                                                                              /IS IT A ACTIVE CONSOLE PACKAGE
/YES LOOK FOR CONTROL CHARACTERS
   1808
                0732
                           6001
                                                      ION
   1809
                                                      JMP I
                                                                                               /EXIT PHTID
   1810
   1811
                                                                                               /CALL MADE FROM LOCATION 240
/MAKE DRIVE SELECTION VIA SWIT QUESTION
                          0000
4463
5547
4424
4426
2334
                                        CBCKSELECTION, Ø PRINT MSDRIVES
   1813
                9734
                9735
9736
9737
9749
9741
9742
   1814
                                                                                               /PRINT DRIVES SELECTED
   1816
1817
1818
                                                      CHECKCS
                                                      COSWIT
ISZ
                                                                                               /ASK THE SWIT REG QUESTION FOR SETT /BUMP RETURN IF ON CONSOLE
                                                                   CSCKSEL
   1819
                           6001
                                                      TON
                                                      JMP I
                                                                   CSCKSEL
                                                                                               /EXIT CECKSEFECTION OF DRIVES
   1821
  1822
1823
1824
                                                                                               /THIS CALL IS USED IN PLACE OF A LAS
                0744
0745
0746
0747
0750
0751
   1825
1826
                          0900
7200
                                        XCKSWIT,
                                                                                               /CHECK SWIT REG ROUTINE
                                                      CLA
                          4500
5744
1022
0363
7650
7614
  1827
1828
1829
1830
                                                     CHEK22
JMP I
TAD
                                                                                               /ON APT IGNORE SWITCH REGISTER.
/TO USE HARD OF SOFTWARE SWITCH REG
                                                                   XCKSWIT
                                                      AND
                                                                    (400
                                                                                               /MASK FOR BIT
   1831
1832
1833
1834
1835
                0752
0753
                                                      SNA CLA
7614
                                                                                               /LAS AND SKIP WAS HARDWARE SWITCH REG
/THIS IS A NOP IF ON APT-8.
/WAS SOFT PSEUDO SWITCH REGISTER
                                                     TAD
JMP I
                0754
                          1020
                                                                   20
XCKSWIT
   1836
   1837
1838
1839
1840
1841
1842
                          0400
5200
0676
                0763
                0764
0765
                0766
0767
0770
                          1716
                          7100
  1842
1843
1844
1845
1846
1847
                0771
0772
0773
0774
0775
0776
                          0700
2470
                          2425
Ø640
4501
                          4466
4465
1000
   1849
                8777
   1850
                                        /END OF PASS ROUTINE
   1851
1852
1853
                                        PASMES, CHECKCS
                                                                                               /CHECK IF ON ACTIVE CONSOLE
                          4425
5777
                                                                                               /IS ACTIVE
/GO TO ANOTHER ROUTINE TO RETURN TO LOC2114
                1001
                                                      COPASS
  1854
1855
1856
                                                      JMP
                                                                   CORET1
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                 PAL10
                                                                                              V142A
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                                                                                                                                                     PAGE 1-37
                                                                                                                                                                                                                 SEQ 0072
   1857
  1858
                                        RETUR2, PRINT MCRLF
JMP RETUR1 /CRLF ROUTINE FOR END OF P
                1003
                          4463
   1860
                 1004
   1861
1862
                                                                                                             /CRLF ROUTINE FOR END OF PAS.
                                        NRETURI, / PATTERN SAVE
  1863
1864
1865
                                        /SAVE THE RANDOM * R * REGISTERS FOR A RANDOM PATTERN SELECTION (IF EVER)
                                        /PREVENTING DIFFERENT RANDOM PATTERN FROM BEING GENERATED FOR EACH SECTOR /THEREBY ENABLING A " COMPATABILITY " TEST TO BE EXECUTED WITH RANDOM DATA
  1866
1867
1868
  1869
1870
1871
1872
1873
1874
                         1006
1775°
3214
1774°
3215
                1006
1007
1010
                                                     TAD RI
                                       DCA PATR1
DCA PATR1
TAD R2
DCA PATR2
DMP I PATSAVE
PATR1, 1234
PATR2, Ø765
                1011
1012
1013
                          5696
  1875
1876
1877
                          1234
Ø765
                1015
  1877
1878
1879
1880
1881
1882
                                        /PATTERN SETUP
                                        SETUP FOR THE APPROPRIATE PATTERN AS SELECTED BY THE OPERATOR AT L/S 200
                                       PATSETUP, . TAD (7000)
AND TESTP
CLL RTL
                         1016
1373
0145
7106
7006
                1016
1017
   1883
1884
                1020
  1885
1886
1887
                1021
                                                    CLL RTL
RTL
TAD (TAD PATTERNS)
DCA .+1
TAD PATTERNS
DCA XPATTERNS
DCA SUMCHECK
CLL CLA IAC
RAL
AND STESTP
SZA CLA
TAD (-100)
TAD (-100)
DCA A11
TAD A11
DCA A12
TAD PATRI
                1023
                          1372
                1024
1025
1026
  1888
                          3225
1312
   1890
                          3302
  1891
1892
                1027
                          3166
7301
  1893
1894
1895
                1031
1032
1033
                          7084
0172
                                                                                                            / 8/12 BIT MODE INTERROGATION
                          7640
                1034
1035
1036
                          1371
1371
  1896
  1897
1898
                          3011
                1037
1040
1041
1042
1043
  1899
1900
1901
                          1011
3012
1214
                                                     TAD PATRI
  1902
1903
1904
                         3775°
                                                     DCA R1
TAD PATR2
                                                     DCA R2
JMP I PATSETUP
  1905
  1907
                                        / GET WORD
  1909
1910
1911
                                        GET A 12 BIT WORD OR AN 8 BIT BYTE FOR FILLING THE SECTOR BUFFER, OR
```

TO COMPARE TO THE DATA EMPTIED FROM THE SECTOR BUFFER

```
/RX8 DATA HELIABILITY/EXERCISER -DIRXB-D
                                                / IF (A12) - (A11) = 0, THEN EXIT WITH (AC) = " TARGET " TRACK
   1913
1914
1915
                                                / IF (A12) - (A11) = 1, THEN EXIT WITH (AC) = "STARGET " SECTOR
   1916
                                                / IF (A11) = 7776, THEN EXIT WITH THE (AC) = " SUMCHECK "
    1918
1919
1920
1921
1922
1923
1924
1925
1926
                                               / IF (A11) = 7777, THEN EXIT WITH THE (AC) = " -(2 X SUMCHECK)
                                               GETWORD, . TAD A12
                             1046
                   1946
                               1012
7041
1011
7440
5256
1144
                   1047
1050
                                                              CIA
TAD A11
                    1051
                                                              JMP .+3
TAD TARGET
JMP DCAGOOD
CLL RAR
SZA CLA
                   1052
1053
    1927
1928
1929
1930
1931
1932
1933
1934
1935
                   1054
                   1054
1055
1056
1057
1060
1061
                               5303
7110
7640
5263
1137
5303
                                                                                                                               / " TARGET "
                                                               JMP .+3
TAD STARGET
JMP DCAGOOD
                                                                                                                / " STARGET "
                    1062
1063
1064
                               1011
                                                               TAD A11
IAC
8ZA
    1936
1937
1938
                    1065
1066
1067
                               744Ø
5274
                                                               JMP .+6
TAD SUNCHECK
CLL CIA
                               1166
7141
7004
3174
5307
    1939
1940
1941
                    1070
1071
1072
1073
1074
1075
1076
1077
1100
1101
1102
1103
                                                               RAL
DCA GOOD
JMP ISZA11
                                                                                               / " -(2 TIMES SUMCHECK) "
    1942
1943
1944
1945
1946
1947
1948
1949
1950
                               7001
7640
5302
                                                               IAC
SZA CLA
JMP
                                                                               XPATTERNS
SUMCHECK
                               1166
3174
                                                                TAD
                                                                DCA
JMP
                                                                                GOOD
ISZA11
                               5307
4770°
3174
                                                XPATTERNS, JMS RANGEN
DCAGOOD, DCA GOOD
TAD SUNCHECK
                    1104
1105
1106
                                1166
1174
3166
     1951
1952
                                                TAD GOOD
DCA SUMCHECK
ISZA11, ISZ A11
     1953
                                2011
7000
5646
     1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
                    1167
                    1110
                                                 NOP
JMP I GETWORD
/ EXIT SUBROUTINE
/THE FOLLOWING ARE THE ALLOCATED PATTERN POINTERS
                    1112
1113
1114
1115
1116
1117
1120
                                4770
                                                 PATTERNS,
                                                                                JMS RANGEN
                                                                                STA
TAD PAT2
                                1322
1323
1324
1325
1326
7200
                                                                                TAD PAT3
TAD PAT4
TAD PAT5
                                                                                TAD PAT6
     1966
                     1121
                                                                                                                                                                                                                                                      SEQ 0074
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                PAL10
                                                                                                               V142A
                                                                                                                               9-JUN-76
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                                                                                                                                                                               PAGE 1-39
    1967
1968
                                                                12 BIT NODE
                                                                                                8 BIT MODE
    1969
1970
1971
                    1122 1463
1123 6314
1124 5252
1125 2525
                                                                                                / 63
/ 314
/ 252
/ 125
                                                PAT2,
                                                                1463
                                                                                                                                / 0011
                                                                                                                                               00110011
                                                                                                                                / 1100
                                                                                                                                               11001100
                                                                6314
    1971
1972
1973
1974
1975
1976
                                                PAT4,
PAT5,
PAT6,
                                                                5252
                    1126
                                1126
     1978
1979
1980
1981
1982
                                                 THE TEST PARAMATERS ARE RESIDUAL FROM THE PREVIOUS TEST SELECTIONS
                               4767°
5766°
4473
Ø145
                                                 ERRORJ, JMS KEYSWITCH
                    1127
                                                                JMP TAB60
TY40CT
TESTP
                    1130
     1983
1984
1985
1986
                                                 /IF THIS IS TEST @ "ACCEPTANCE TEST" ALSO PRINT (X) THE SUBTEST DIRECTIVE
                                                / X = 0 - 12 BIT MODE

/ X = 1 - 12 BIT MODE WITH DELETED DATA

/ X = 2 - 8 BIT MODE

/ X = 3 - 8 BIT MODE WITH DELETED DATA
     1986
1987
1988
1989
1990
1991
                                                                TAD TESTP
AND (700)
SZA CLA
JMP TAB60
TAD STESTP
TAD (5060)
DCA MDIRECTIVE
PRINT
                               1145
0365
7640
5766°
1172
1364
3345
4463
                    1133
1134
     1993
1994
1995
                    1135
1136
1137
                    1140
1141
1142
1143
1144
1145
     1996
1997
1998
                                                                 PRINT
                                                                 MDIRECTIVE
                                1145
5766°
5040
     1999
                                                 JMP TAB60
HDIRECTIVE, TEXT *( )*
     2001
                                 5100
                                                 /IF (XSDN) = THE RETURN ADDRESS TO * SDMSECOND * THEN THE DEVICE TEST IS /HUNG FROM THE (KEY) INITIALIZE, THE STARTING TRACK IS [KEY], AND THE /TARGET TRACK IS [HOME]
     2002
     2003
2004
     2005
                                                 / INITSWITCH, . XWAIT TAD (-SDNSECOND) SZA CLA ISZ INITSWITCH JMP I INITSWITCH
     2006
2007
2008
                     1147
1150
1151
1152
                               1147
1763°
1362
7640
      2009
2010
                     1153
                                 2347
5747
      2011
      2012
2013
2014
                      1162
1163
                                 3352
2352
      2015
2016
                      1164
                                 5060
0700
                      1166
1167
1170
                                 2525
5327
3333
7700
      2017
2018
```

1.

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SEQ 9073

)

```
/PX8 DATA RELIABILITY/EXERCISER -DIRXB-D
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                                                                                                                                                                                                                  SEQ 0075
   2022
2023
2024
                          7900
                1174
1175
                          3350
3347
                          2000
0561
   2026
                                                      PAGE
                           1200
   2027
                                         /WRITE ONLY
   2028
                                         /WRITE ALL SELECTED SECTORS OF THAT TRACK
   2029
2030
2031
                                       XWRITE, STL CLA RAR DCA RDC INITSECTORS
                1200
                          1200
   2032
2033
2034
                1201
1202
1203
                          7330
3133
4457
                                                                                  /THIS IS A WRITE (RDC = 4000)
                           4453
7410
                                         WRITEL, GETASECTOR
SKP
/ENTRY TO HERE FROM READ SUBROUTINE IF A HARD READ AFTER WRITE ERROR HAS OCCURED
   2036
                1205
   2038
                                         /
REWRITE, TAD (JMP WHICHREAD)

DCA JMPWHICHREAD

/THE PROGRAM WILL ISSUE AN INIT FOR ALL SEEK ERRORS
                1206 1377
1207 3274
   2040
   2042
                                         NOTE
                                         /
/THE FUNCTION OF THE INIT IS TO SEEK TRACK 1 / SECTOR 1, AND TRANSFER INTO
/THE SECTOR BUFFER THE CONTENTS OF SECTOR 1, THEREFORE TO RECOVER FROM A
/SEEK ERROR, THE PROGRAM MUST RE-FILL THE SECTOR BUFFER THEN RE-SEEK
   2044
   2045
   2046
2047
   2048
2049
2050
                                         TAD KRETRY
DCA SRETRY
WRESEEK, TAD KRETRY
DCA PRETRY
/FILL RXØ1 SECTOR BUFFER
                 1210
1211
1212
                          1134
3156
1134
    2051
   2052
                                                                                                             /PARITY RETRY COUNTER
   2054
2055
2056
                          4776°
4440
5236
5226
                                         REFILL, JMS PATSETUP
                 1214
1215
                                         LCDA
JMP FILLOK
JMP FILLERROR
/RETURN TO HERE IS FROM SUBROUTINE XLCDA
   2057
2058
                 1216
1217
   2059
   2060
2061
2062
                          4775°
4444
5221
1174
4443
                 1220
1221
1222
1223
                                                       JMS GETWORD
                                                       STR
    2063
2064
                                                       JMP
    2065
                 1224
                                         JMP FILL
/AC SW (4) = 1 ; INHIBIT INTERFACE PARITY RECOVERY
                           5220
    2066
    2067
2068
                                         FILLERROR, ISZ PRETRY
                 1226
1227
1230
1231
                           2157
7410
5236
4407
    2069
    2070
2071
                                                       SKP
JMP FILLOKNOTOK
    2072
                                                       LAS
                                                       AND KØ2ØØ
                           0015
7650
                                                                                                                                         16:55 PAGE 1-41
                                                                                                                                                                                                                  SEQ 0076
 /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                  PALIG
                                                                                                V142A
                                                                                                            9-JUN-76
                                                       JMP REFILL
DCA PRETRY
   2075
    2076
2077
                                         / 1.
/ 5.
/ 2. IF (RETRY) < -12 ; AN ERROR HAS JUST BEEN RECOVERED FROM
/ 3. IF (RETRY) = -12 ; THERE IS NO ERROR TO LOG
    2078
    2080
    2081
2082
                                          FILLOK, LOG
                 1236
1237
                           4462
7315
                                         PERRORS /LOG H / S INTERFACE PARITY ERRORS (IF ANY)
/THE SECTOR BUFFER HAS SUCCESSFULLY BEEN FILLED AND CONTAINS THE
/PATTERN SELECTED - ALL SOFT PARITY ERRORS HAVE BEEN LOGGED
    2083
    2084
2085
2086
                 1240
1241
1242
1243
1244
1245
1246
    2087
2088
                           1134
3157
7301
                                                       TAD KRETRY
                                                       DCA PRETRY
CLL CLA IAC
    2089
                            7301
7004
7001
7006
4441
5262
                                                                                                 /TESTP FOR DELETED DATA SELECTION
    2090
                                                       AND STESTP
                                                       RAL
    2092
                                                                                                 / 4 IF WRITE OR 14 IF WRITE DELETED DATA
                                                       RTL
LCDB
    2093
    2094
                                                        JMP WRITEOK
                  1250
    2096
2097
                                          RETURN TO HERE IS FROM A PI (IF AN RXØ1 ERROR FLAG)
    2098
2099
2100
                                          /AC SW (4) = 1 ; INHIBIT WRITE RETRY
                           2156
7410
5272
4407
                                          ,
Writerror, ISZ SRETRY
                  1251
                  1252
1253
1254
1255
1256
1257
1260
    2101
                                                       SKP
JMP WNOTOK
                                                                                   /LOG HARD SEEK ERROR
                                                       LAS
AND KØ2ØØ
    2103
                           0015
7650
5212
    2104
2105
                                                       SNA CLA
JMP WRESEEK
DCA SRETRY
    2106
    2107
                            3156
    2108
2109
2110
                                                        JMP WNOTOK
                                          / 1. IF (RETRY) = 0; A NON RECOVERABLE ERROR EXISTS
/ 2. IF (RETRY) < -12; AN ERROR HAS JUST BEEN RECOVERED FROM
/ 3. IF (RETRY) = -12; THERE IS NO ERROR TO LOG
/ 5. IF THE AC SWITCH IS TO INHIBIT RETRY; A HARD ERROR IS LOGGED
    2111
    2113
2114
2115
                                           /NOTE: THE ONLY ERROR EXPECTED HERE EVER IS A "SEEK" ERROR
    2116
2117
2118
                                           RETURN TO HERE IS FROM A PI (IF ONLY AN RX01 DONE FLAG)
    2119
2120
2121
                  1262 1144
1263 3140
1264 1137
                                           WRITEOK, TAD TARGET
                                                        DCA START
TAD STARGET
     2122
2123
                                           DCA SSTART
/LOG TOTAL WRITES (NO MARD SEEK ERROR) PER DRIVE
                             3136
     2124
2125
                            1774°
7104
1373
4772°
                  1266
1267
1270
1271
1272
                                                        TAD UNITZ
                                                        CLL RAL
TAD (WRITES)
JMS LOGCOMMON
     2126
2127
```

WNOTOK, LOG

```
SEQ 0077
```

SEQ 0078

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                        PAL10
                                                                                                      V142A
                                                                                                                   9-1111-76
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                                                                                                                                                                 PAGE 1-42
                                            SERRORS
JMPWHICHREAD, JMP WHICHREAD
                                                                                                       /CONTAINS # OR MODIFIED TO JMP WHICHREAD
   2132
                                            / ISZ SECTORS
JMP WRITEL
JMP I XWRITE
/IF THIS IS A WRITE AFTER READ, "JMP READRETRY", BUT
   2132
2133
2134
2135
2136
2137
                  1275
1276
1277
                            2135
5204
5600
                                            /IF A HARD SEEK ERROR, "JMP NUREAD"
   2138
2139
2140
                                            WHICHREAD, TAD SRETRY
SNA CLA
JMP NUREAD
JMP READRETRY
                  1300 1156
1301 7650
1302 5342
    2141
2142
2143
2144
2145
                                                                                                        /HARD SEEK ERROR
                             5342
5771
                                                                                                       /SOFT
                  1303
                                            /CONTROLLER FAILURES
    2146
2147
2148
                                            SDNUNEXPECTED, TAD (MSDNUNEXPECTED)
                  1304
1305
1306
                             1370
7410
1367
3316
4407
7640
4764
4766
4463
8000
4407
7710
5765
                                                          SKP
TAD (MNOSER)
DCA XMESSAGE
LAS
AND K0400
    2149
2150
2151
                                            NOSER,
                   1307
    2152
2153
2154
                   1311
1312
1313
                                                           SZA CLA
JMP QUIET
JMS FORCE
    2154
2155
2156
2157
2158
2159
2160
                   1314
1315
1316
1317
1320
1321
                                                            PRINT
                                             XMESSAGE, 0
QUIET, LAS
SPA CLA
HLT
    2161
2162
2163
                                                            JMP RS
                    1322
                                             /LOG ANY RECOVERABLE SEEK ERRORS WHICH MAY HAVE OCCURED /PRIOR TO THIS DNS, OR SND
    2164
2165
                                             ONS, LOG
SERRORS
TAD KRETRY
DCA SRETRY
/LOG TOTAL READS (NO SEEK ERRORS) PER DRIVE
                             4462
7313
                    1323
1324
    2166
     2167
2168
     2169
2170
2171
                             1774°
7104
1364
4772°
2152
7410
5345
                   1327
1330
1331
1332
1333
                                                            TAD UNITZ
                                                            TAU UNITZ
CLL RAL
TAD (READS)
JMS LOGCOMMON
ISZ R2RETRY
SKP
     2172
     2173
2174
2175
     2176
2177
                                                             JMP UREAD
                                              /AC SW (4) = 1 ; INHIBIT READ RETRY
     2178
     2179
     2180
2181
                    1336
1337
1340
                              4407
0015
7650
                                                            LAS
                                                            AND KØ2ØØ
SNA CLA
JMP REREAD
     2182
                                              /A HARD FILL BUFFER PARITY ERROR OR A HARD PARITY ERROR ON THE COMMAND/
     2184
                                                                                                                    9-JUN-76
                                                                                                                                                     16:55 PAGE 1-43
  /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                          PALIS V142A
                                               /SECTOR/TRACK WORDS, OR
/A HARD SEEK ERROR WHICH HAS BEEN LOGGED WITHIN THE WRITE SUBROUTINE, OR
/A HARD CRC ERROR WHICH OCCURED WHILE WITHIN THE READ SUBROUTINE
      2185
      2186
2187
      2188
2189
                                              NUREAD, DCA RIRETRY
DCA RIRETRY
JMP RNOTOK
/IF THIS IS A READ AFTER WRITE THEN RE-WRITE THE SECTOR IN ERROR
                     1342 3151
1343 3152
1344 5762°
      2190
      2191
2192
      2193
2194
2195
2196
                                               BECAUSE THIS IS A HARD PROGRAM COMPARE DATA ERROR
                    1345 4761°
1346 5342
1347 2151
1350 5206
                                                             JMS RDORWR
JMP NUREAD
                                               UREAD,
      2197
2198
                                                              ISZ RIRETRY
JMP REWRITE
JMP RNOTOK
      2199
2200
2201
                                               /READ VERIFY
       2202
2203
2204
                     1352
1353
1354
1355
1357
1360
1361
1362
                                               XREADCOMPARE, .
TAD XREADCOMPARE
DCA XREAD
JMP XRDC
                              1352
1352
3760°
5757°
1402
1400
       2205
2206
2207
2208
2209
2210
2211
                                0550
1522
1414
6357
2237
       2211
2212
2213
2214
2215
2216
                      1364
1365
1366
                                 3605
                                 6315
2532
1407
                      1367
1370
                      1371
1372
1373
1374
1375
       2217
2218
2219
                                 4400
6353
2272
       2220
                       1376
        2222
                                 1016
                                 5300
                                                 PAGE
/READ AND READ AFTER WRITE SUBROUTINE
        2224
2225
2226
2227
                                                 //IF THIS IS A READ AFTER WRITE, THEN 1 PROGRAM LOCATION PRECEEDING /THE PROGRAM LOCATION CONTAINING THE "READ" WILL CONTAIN "WRITE"
        2228
                                                 /READ ALL SELECTED SECTORS OF THAT TRACK
        2229
2230
        2231
2232
                                                 / (RDC) = 0 IF RDC, = 1 IF READ, 4000 IF WRITE
```

(

2233 2234

2235 2236 1400

1401

1402

XREAD.

XRDC.

ČLL CLA IAC DCA RDC

INITSECTORS

```
9-JUN-76
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                        PAL10
                                                                                    V142A
                                                                                                                         16155
                                                                                                                                      PAGE 1-44
                                                                                                                                                                                           SEQ 0079
                                                TAD KRETRY
  2239
               1404
                                    READL.
                                                DCA RIRETPY
GETASECTOR
   2240
  2241
2242
               1406
                        4453
                                    PENTRY TO HERE FROM WRITE SUBROUTINE IF A HARD WRITE AFTER READ ERROR HAS OCCURED
  2243
2244
2245
2246
2247
2248
2249
                                    READRETRY, TAD KRETRY
               1407
                                    DCA REPETRY

/REFRESH PROGRAM LOCATION SNDLOG BECAUSE THE CONTENTS MIGHT BE RESIDUAL
/IF A PREVIOUS SND (STATUS NO DATA) ERROR EVER OCCURED
                        3152
               1411
                        3155
                        3153
3154
1134
3156
1134
3157
7321
7006
   225Ø
2251
               1412
1413
                                                DCA DWSLOG
                                    DCA DNSLOG
REREAD, TAD KRETRY
               1414
1415
1416
1417
1420
1421
  2252
2253
2254
                                    DCA SRETRY
RESEEK, TAD KRETRY
DCA PRETRY
   2255
2256
2257
                                                 CLA CLL CML IAC
   2258
2259
2260
                                                 LCDB
                                    JMP READOK
/RETURN TO HERE IS FROM A PI (IF AN RXØ1 ERROR FLAG)
   2261
2262
                                     AN ERROR HAS BEEN DETECTED
   2263
                                    /IF NOT A CRC ERROR THEN ASSUME A SEEK ERROR
   2264
   2265
2266
                                    READERROR, CLL CLA IAC
                        7301
               1424
                        7301
9141
7640
5243
2156
7410
5240
4407
9015
7650
                                                AND ASTATUS
SZA CLA
JMP CRCERROR
ISZ SRETRY
   2267
2268
2269
               1425
1426
1427
                                                                                      /CRC MASK
   2270
2271
2272
               1430
1431
1432
                                                 SKP
JMP USEEK
               1433
1434
1435
1436
1437
   2273
2274
2275
                                                 LAS
                                                 AND K0200
                                                 SNA CLA
JMP RESEEK
   2276
2277
                        5216
3156
                                                 DCA SRETRY
   2278
               1440
1441
1442
                        4462
7313
5364
                                     USEEK,
                                                LOG
   2280
                                                 JMP RLOGGED
                                                                                      /LOG HARD SEEK ERRORS
   2281
                                     /PROGRAMMING NOTE:
   2283
                                     ANY RECOVERABLE SEEK ERRORS ARE LOGGED AT PROGRAM LOCATION " DNS "
   2285
2286
2287
                                     AN ERROR HAS OCCURED
   2288
2289
2290
                                     SND=DNS
                                     THE SECTOR BUFFER CONTAINS THE DATA READ
                                     /ANY PARITY ERRORS WOULD HAVE PREVIOUSLY BEEN DETECTED AND LOGGED
    2293
                                                                                                                          16:55 PAGE 1-45
                                                                                                                                                                                            SEQ 0080
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                         PAL10
                                                                                    V142A
                                                                                                9-JUN-76
   2295
                                    /THIS ERROR IS NOT A SEEK ERROR, THEREFORE IT IS ASSUMED TO BE A
   2296
   2297
                                                                         CRC ERROR
                                     COMPARE THE DATA WITHIN THE SECTOR BUFFER TO DETECT CRC STATUS /WITHOUT DATA ERRORS (SND)
   2299
   2300
                                     /IF AT THE END OF THE COMPARE, STATUS NO DATA ERRORS HAVE BEEN DETECTED
   2302
   2303
                                     THEN PRINT AN APPROPRIATE MESSAGE
    2304
               1443 1133
1444 7640
1445 5272
1446 4777
                                    CRCERROR, TAD RDC
   2305
   2306
2307
2308
               1444
1445
1446
1447
1450
1451
                                                SZA CLA
JMP XCRCERROR
JMS COMPARE
TAD COMPRERROR
   2309
2310
2311
                        1106
7450
1776
                                                 SNA
TAD INSUMCHECK
   2312
2313
2314
                        7640
5775°
2155
                                                 SZA CLA
JMP DWS
ISZ SNDLOG
               1454
   2315
2316
2317
                                     /IF AC SW (3) = 1 THEN DO NOT PRINT THE ERROR INFORMATION
   2318
2319
2320
               1455
1456
1457
                        4407
0014
7640
                                                LAS
AND K0400
SZA CLA
JMP XCRCERROR
JMS RDORWR
JMP +4
PRINT
HWRITE
JMP +3
PRINT
   2321
               1460
1461
1462
1463
1464
1465
1466
1467
1470
1471
1472
1473
1474
                         5272
   2322
2323
                        4774°
5266
   2323
2324
2325
2326
2327
2328
2329
                         4463
5741
5270
                         4463
5745
4463
                                                 MREAD
PRINT
                         4403
6005
4407
7710
4456
5775
    2330
2331
2332
                                                  MSNDERROR
                                     XCRCERROR, LAS
SPA CLA
HLT7, HLT
                                                  JMP SND
    2335
   2336
2337
2338
                                     /IF THIS IS A READ COMPARE TEST
                                     /THEN " JMS COMPARE ", BUT ...
    2339
                                     /IF A STATUS ERROR WITH NO DATA ERROR HAS PREVIOUSLY BEEN DETECTED
    2341
                                     /THEN DO NOT RE- " JMS COMPARE ". AND
    2343
                                      /DO NOT RESET PROGRAM LOCATION " START " WITH " TARGET "
                                      /PROGRAMMING NOTE:
```

ANY RECOVERABLE SEEK ERRORS WHICH OCCURED PRIOR TO CRC OR DATA ERRORS

```
SEO GORT
```

SEQ 0082

```
2349
                                   /ARE LOGGED AT PROGRAM LOCATION * DNS
2351
2352
2353
                     1155
1133
7640
                                   READOK, TAD SHOLOG
             1476
1477
                                               TAD RDC
SZA CLA
2354
2355
             1500
             1501
1502
                      5310
4777
                                                JMP ROK
                                               JMS COMPARE
2356
2357
2358
                                               TAD COMPRERROR
             1503
 2359
2360
2361
             1504
1505
                      7450
1776*
                                               TAD INSUMCHECK
                                               SZA CLA
JMP DNS
             1506
1507
1510
1511
                      7640
5775°
1144
3140
 2362
2363
2364
                                   ROK, TAD TARGET

DCA START

TAD STARGET

DCA START

DCA SSTART

/LOG TOTAL READS (NO HARD SEEK ERRORS) PER DRIVE
 2365
2366
2367
                      1137
3136
 2368
2369
2370
                                    TAD UNITZ
CLL RAL
TAD (READS)
JNS LOGCOMMON
/LOG ANY RECOVERABLE SEEK ERRORS
             1514
1515
1516
1517
                     1773°
 2370
2371
2372
2373
2374
2375
                      1372
                                    /NOTE: NO DATA OR CRC ERRORS HAVE OCCURED
 2376
2377
2378
2379
              1520 4462
1521 7313
                                                LOG
                                    SERRORS
/LOG A WRITE ERROR IF THIS IS A READ AFTER A WRITE, OTHERWISE
 238Ø
2381
                                    LOG A READ ERROR
  2382
                                    RNOTOK, JMS RDORWR
JMP WHATYPEREAD
/THIS IS A READ AFTER A WRITE
              1522 4774°
1523 5337
  2383
  2384
 2385
2386
2387
                                     /IF (R2RETRY) = -12 AND (R1RETRY) = -12, THEN NO ERRORS TO LOG
  2388
2389
2390
2391
2392
2393
                                    //IF \theta < (R2RETRY) <= -11 AND (R1RETRY) = -12, THEN RECOVERABLE READ /(IF PREVIOUSLY THERE WERE NO SEEK ERRORS)
                                     /IF (R2RETRY) = -12 AND 0 < (R1RETRY) <= -11, THEN RECOVERABLE WRITE
                                     /IF (R2RETRY) = Ø AND (R1RETRY) = Ø THEN UNRECOVERABLE WRITE
  2394
2395
2396
2397
                                                                          RIRETRY - REWRITE LOG
REPRETRY - REREAD LOG
  2398
                                     /NOTATION:
  2399
  2400
  2401
  2402
                                                 TAD KRETRY
  2403
              1524 1134
                                                                                                                            16:55
                                                                                                                                        PAGE 1-47
                                                                                      V142A
                                                                                                   9-JUN-76
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                          PALIG
   2404
               1525
                        7041
                        1152
7450
5334
  24Ø5
24Ø6
               1526
1527
                                                 TAD RETRY
                                                 SNA
JMP .+4
                                                                                                   / (R2RETRY) = (RETRY)
  2407
2408
2409
               1530
                                     / (R2RETRY) NOT = (RETRY)
   2410
               1531
1532
1533
1534
1535
                       1134
7640
5362
4462
7301
5364
                                                  TAD KRETRY
   2412
2413
                                                 SZA CLA
JMP LOGRERRORS
                                                                                                   /LOG A SOFT READ AFTER WRITE ERROR
                                                  LOG
   2414
   2415
2416
2417
                                                  WERRORS
                                     JMP RLOGGED /LOG A WRITE ERROR (I /THIS IS A READ ONLY (NOT A READ AFTER WRITE)
                                                                           /LOG A WRITE ERROR (IF ANY)
   2418
2419
2420
2421
                                      /IF A COMPARE ERROR EXISTS THEN THIS IS A DATA ERROR
                                      AND IF THE CONTENTS OF BSTATUS = 0 THEN THIS IS A DATA NO STATUS ERROR
   2422
2423
                                      OTHERWISE THIS IS JUST A READ ERROR
   2424
2425
                                      BUT, IF THIS IS A RDC TEST, AND
   2426
2427
                                      /IF THE CONTENTS OF DNSLOG > Ø THEN LOG; DNSERRORS, AND
   2428
2429
                                      /IF THE CONTENTS OF DWSLOG > 0 THEN LOG; DATAERRORS
   2430
                                      THE DNS. AND DWS LOGS BECOME UNRECOVERABLE WHEN (R2RETRY) = 0
    2431
   2432
2433
                                      READ ERRORS = X, OF WHICH THERE WERE X DNS ERRORS, AND X DWS ERRORS
   2434
2435
2436
2437
2438
                                     WHATYPEREAD, TAD RDC
SZA CLA
JMP LOGRERRORS
TAD DNSLOG
SNA CLA
                        1133
7640
                1547
1549
1541
1542
1543
1544
1545
                        5362
1154
7650
5770
1152
3154
4462
7307
5770
1155
7650
   2439
2440
2441
2442
2443
2444
2445
2446
2447
                                                  JMP WHAT2
TAD RETRY
                1546
1547
1550
                                                  DCA DNSLOG
LOG
DNSERRORS
                                                  JMP WHAT2
TAD SNDLOG
SNA CLA
JMP .+5
TAD R2RETRY
                1551
1552
1553
                                      WHAT3,
   2448
2449
2450
                1554
1555
1556
                         5361
1152
3155
                                                  DCA SNDLOG
    2451
                 1557
                         4462
7311
                                                   SNDERRORS
    2452
                1560
                                                   TAD SUMLOG; SNA CLA; JMP .+5
TAD R2RETRY; DCA SUMLOG; LOG; SUMERRORS
    2453
    2454
2455
2456
                1561
                        5364
                                                   JMP RLOGGED
```

LOGRERRORS, LOG RERRORS /HARD OR SOFT READ ONLY, OR SOFT READ AFTER WRITE

2457 2458 1562

1563

```
SEQ 0083
 SEQ 0084
```

```
2466
2467
2468
                     1323
1763
1601
             1575
1576
 2469
             1577
                                             PAGE
                                  JMPICOMPARE, JMP I COMPARE
             1600
 2479
                     5691
 2471
2472
2473
                                  THE FOLLOWING INFORMATION IS ALWAYS PRINTED IF A PROGRAM COMPARE DATA ERROR
                                                                    DATA ERROR
WORD GOOD BAD
 2474
2475
 2476
2477
                                  /WHERE " WORD " IS THE WORD NUMBER (0-127),
                                  /AND " GOOD " IS THE DATA WORD WRITTEN,
/AND " BAD " IS THE DATA WORD READ (IN ERROR)
  2478
  2479
  2480
                                  WORDS Ø AND 1 ARE HEADER WORDS (8 BIT BYTES)
 2481
2482
2483
                                  / WORD 0 - TRACK * (BITS 5-11)
/ WORD 1 - SECTOR (BITS 7-11)
  2484
  2486
                                  /AC SW (4) = 1 ; INHIBIT READ DATA ERROR TYPEOUT
  2487
2488
2489
                                  COMPARE, .
  2490
2491
2492
             1601 1601
                                  /EMPTY BUFFER
  2493
2494
2495
                                  /SAVE THE PREVIOUS READ'S A-STATUS REGISTER
                                             CLL CLA IAC
AND ASTATUS
DCA XASTATUS
TAD KRETRY
  2496
2497
2498
              1602
1603
1604
                      7301
0141
3362
                                                                     / = 1 IF CRC ERROR
                      3362
1134
3157
4777*
7301
7004
4440
5776*
5775*
  2499
2500
2501
              1605
1606
1607
                                              DCA PRETRY
                                  EMPTYL, JMS PATSETUP
CLL CLA IAC
              1610
1611
1612
1613
  2502
  2503
2504
                                              RAL
                                              LCDA
JMP EMPTYOK
JMP EMPTYERROR
  2505
  25Ø6
25Ø7
                                   PRETURN TO HERE FROM SUBROUTINE XLCDA
  2508
2509
2510
              1615
              1615 3106
1616 3363
                                              DCA COMPRERROR
                                   DCA INSUMCHECK

AC SW (3) = 1 ; INHIBIT FURTHER READ DATA ERROR TYPEOUTS
                                                                     PAL18 V142A 9-JUN-76
                                                                                                                    16:55 PAGE 1-49
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                   /...BUT STAY IN THIS LOOP UNTIL THE RX01 SECTOR BUFFER IS EMPTIED
   2514
  2514
2515
2516
2517
2518
2519
2520
                                  EMPTY, JMS GETWORD
STR
JMP .-1
              1617 4774°
1620 4444
1621 5220
                                   DISABLE THE RX01 INTERRUPT
   2520
2521
2522
2523
2524
              1622 4447
                                   TRANSFER DATA FROM THE SECTOR BUFFER INTO THE ACCUMULATOR
                                                                                 / "ACTUAL" (BAD) DATA
              1623 4442
1624 3003
   2525
   2526
2527
                                               DCA XA10
                                   ASSUME A 12 BIT SUMCHECK EVEN IF 8 BIT MODE FOR NOW
   2528
   2529
2530
2531
                                   /NOTE: THE CONTENTS OF PROGRAM LOCATION " INSUMCHECK " SHOULD * 0 / (AFTER ALL WORDS HAVE COME IN)
   2532
2533
2534
                                              TAD XA10
TAD INSUMCHECK
DCA INSUMCHECK
CLL CLA IAC
RAL
                       1003
1363
3363
7301
               1626
   2535
2536
2537
               1627
1630
1631
                                                                                  / 2 (8/12 BIT MODE MASK)
                       7004
0172
7112
1174
7430
               1632
1633
1634
   2538
2539
2540
2541
2542
2543
2544
2545
2546
                                               AND STESTP
                                               CLL RTR
TAD GOOD
               1635
1636
1637
                                                                                  / 0 = 12 BIT, 1 = 8 BIT
                                               SZL
                       0125
7041
                                               AND K377
                                               CIA
TAD XA10
                      1003
7650
5773
                                               JMP ENDCOMPARE
    2547
2548
                                    /A PROGRAM COMPARE DATA ERROR HAS BEEN DETECTED
                                    /NOTATION:
    2551
                                    THE CONTENTS OF PROGRAM LOCATION XASTATUS REFLECTS THE STATUS OF THE /RXØ1 AT THE COMPLETITION OF THE PREVIOUS " READ SECTOR "
    2553
    2554
2555
                                    /IF A CRC ERROR EXISTS THEN THIS IS A DATA ERROR WITH STATUS ERROR
    2556
2557
                                    /IF A CRC ERROR DOESN'T EXIST THEN THIS IS A DATA ERROR WITH NO ERROR STATUS
    2558
2559
               1643
1644
                       1362
7450
                                               TAD XASTATUS
                                                                                  / A-STATUS OF PREVIOUS READ
    2560
                                                SNA
                1645
1646
1647
                       2154
7640
                                                ISZ DNSLOG
                                                                                   /NO CRC STATUS
    2561
    2562
2563
                                                SZA CLA
                                                ISZ DWSLOG
                                                                                  /CRC STATUS
    2564
2565
2566
2567
                                     /AC SW (3) TO INHIBIT ERROR PRINTOUT
                                     /IF THIS IS A READ ONLY TEST (NOT READ COMPARE) OR IF AC SW 3 = 1
```

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/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D

2135 5204

5600

3071

6357 2272

0550

1566

1570 1571

1572 1573 1574

2460

2461

2462 2463

2465

RLOGGED, ISZ SECTORS

JMP READL

JMP I XREAD

16:55 PAGE 1-48

```
SEQ 0085
```

SEQ 0086

2670 2671

2672

3167 4473 Ø167

4472 0012 4473

1754 1755

SZL AND K377

TAB 12 TY40CT

DCA LSB

TY40CT LSB

```
PAGE 1-50
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                  PAL10
                                                                                                V142A
                                                                                                              9-JUN-76
                                                                                                                                          16:55
                                          THEN DO NOT PRINT ERROR INFORMATION
  2568
  2569
2570
2571
                                         /BUT.
                                         // THIS IS A READ COMPARE TEST AND AC SW 3 = 0 /THEN PRINT ERROR INFORMATION
   2572
2573
2574
                 1650
1651
1652
                           4407
                                         ASS
AND K0400
TAD RDC
SZA CLA
JMP ISZCOMPRERROR
/IF THIS IS THE FIRST COMPARE ERROR THEN PRINT HEADER INFORMATION
                           0014
1133
7640
   2576
2577
2578
2579
                 1654
                           5360
   258Ø
2581
2582
                                                       TAD COMPRERROR
                         1106
7640
5320
                 1655
                                                       SZA CLA
JMP CNOTFIRST
   2583
2584
                 1656
1657
   2585
2586
2587
                                          /IF A DATA NO CRC STATUS ERROR (DNS) THEN PRINT ENTIRE ERROR INFORMATION
                                                        TAD DNSLOG
   2588
2589
2590
                 1660
                          1154
                                          SZA CLA

JMS FORCE

/IF THE PROGRAMMED INSTRUCTION IMMEDIATELY BEFORE " READ "
/IS A " WRITE " , THEN THIS IS A WRITE DATA ERROR, IF NOT,
/THEN THIS IS A READ DATA ERROR
                 1661 7640
1662 4772°
   2591
2592
   2593
2594
2595
2596
2597
2598
2599
2600
2601
2602
                                          /PROGRAMMING NOTE:
                                          THE LABLE " XCOMPARE " MUST RESIDE HERE BECAUSE OF REFERENCES MADE WITHIN " XERROR "
                 1663
1664
1665
1666
1667
1670
                           4771°
5270
4463
5741
5272
4463
5745
                                          XCOMPARE, JMS RDORWR
                                                        JMP .+4
PRINT
                                                        MWRITE
    26Ø3
26Ø4
                                                        JMP .+3
PRINT
    2605
    2606
2607
                                                        MREAD
                                           /NOTATION:
    2608
                                           / THE CONTENTS OF PROGRAM LOCATION XASTATUS REFLECTS THE STATUS OF THE /RX01 AT THE COMPLETITION OF THE PREVIOUS " READ SECTOR "
    2609
2610
    2611
2612
2613
2614
                                           IF A CRC ERROR EXISTS THEN THIS IS A DATA ERROR WITH STATUS ERROR
                                           /IF A CRC ERROR DOESN'T EXIST THEN THIS IS A DATA ERROR WITH NO ERROR STATUS
    2615
2616
2617
                            1362
7640
5300
4463
5751
5302
                  1672
1673
1674
1675
1676
1677
                                                        TAD XASTATUS
SZA CLA
JMP DWESERROR
    2619
2619
2620
2621
                                                        PRINT
MDNSERROR
                                          JMP ,+3
DWESERROR, PRINT
                                                                                                                9-JUN-76
                                                                                                                                             16:55
                                                                                                                                                          PAGE 1-51
  /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                     PAL10
                                                          MDWESERROR
                   1701
     2623
    2624
2625
2626
                   1702
                                                         PRINT
                                                         MDATAERROR
WORD " IF 12-BIT MODE, OR PRINT " BYTE " IF 8-BIT MODE
                                            /PRINT "
     2627
2628
                                           TAD (MWORD)
DCA XFLENGTH
TEST 8/12-BIT MODE SELECTION
                   1704 1370
1705 3315
     2629
     2639
2630
2631
2632
2633
2634
                                                         CLL CLA RAL
AND STESTP
                   1706
                             7304
                   1707
1710
1711
                             9172
7659
                                                         SNA CLA
JMP .+3
TAD (MBYTE)
DCA XFLENGTH
                             5314
1367
3315
     2635
     2636
2637
                   1712
1713
     2638
2639
                             4463
5772
                                                         PRINT
                                           XFLENGTH, MWORD
PRINT
MGB

/ AC 2 = 0 - PRINT ONLY FIRST 3 COMPARE ERRORS
/ AC 2 = 1 - PRINT ALL COMPARE ERRORS
      2640
2641
2642
2643
                              4463
                             6000
      2644
2645
2646
                                            CNOTFIRST, LAS
AND (SW2)
SZA CLA
JMP .+5
CLL STA RTL
TAD COMPRERROR
                   1720
1721
                             4407
0366
      2647
2648
2649
                   1722
1723
1724
                             7640
5330
7346
      2650
                    1725
                              1106
                             7700
5360
4463
5611
1012
                                                          SMA CLA
JMP ISZCOMPRERROR
PRINT
      2651
2652
                    1727
      2653
2654
                    1730
1731
                                                          MCRLF
TAD A12
CIA
TAD A11
      2655
                    1732
                   1733
1734
1735
                              7041
1011
3004
      2656
2657
                                                                                                                  /TEMP STORAGE FOR VALUE
                                                                       XXX
      2658
                                                          DÇA
                    1736
1737
1740
                                                          TYAOCT
      2659
266Ø
                              4473
0004
                                                          XXX
                               4472
      2661
      2662
2663
                              0005
                                             /IF 8-BIT MODE THEN MASK THE 12-BIT "GOOD" WORDS K377
      2664
2665
                              7301
7004
0172
7112
1174
7430
                                                          CLL CLA IAC
                    1742
1743
1744
1745
1746
1747
1750
1751
1752
1753
                                                          RAL
AND STESTP
       2666
       2667
2668
2669
                                                           CLL RTR
TAD GOOD
```

```
/PXB DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                              PAL10 V142A 9-JUN-76
                                                                                                                                   16:55 PAGE 1-52
                                                                                                                                                                                                          SEQ 0087
                         3883
                                       ISZCOMPRERROR, ISZ COMPRERROR
JMP ENDCOMPARE
   2679
                1760
                         2106
5773
   268Ø
2681
2682
                                       //THE CONTENTS OF THE XASTATUS PROGRAM LOCATION REFLECTS THE STATUS AT THE /COMPLETITION OF THE PREVIOUS READ FUNCTION
   2683
2684
                                       /
/THE PREVIOUS STATUS IS SAVED BECAUSE A SUCCEEDING ERROR
/ (PARITY ERROR ON THE COMMAND WORD) MAY OCCUR
   2685
   2686
2687
                                       XASTATUS, Ø
   2688
               1762 0000
   2689
                                       //THE CONTENTS OF " INSUMCHECK " IS THE SUMCHECK DERIVED FROM THE SUM OF ALL /DATA WORDS COMING IN (THE SUM OF ALL " BAD " ), AND /SHOULD BE EQUIVALENT TO Ø AT THE END OF THE EMPTY BUFFER
   2690
   2691
2692
   2693
   2694
2695
2696
               1763 8888
                                       INSUMCHECK. Ø
                                       2697
2698
                                        /************
   2699
2700
                1766
                         1000
                1767
1770
                         5775
5772
   2791
                1771
1772
1773
1774
1775
1776
   2702
2703
2704
                          9559
                         3605
   2705
2706
2707
                          1046
2012
2023
1016
   2708
                          2000
                                       PAGE
   2709
                                       RETUR1, PRINT
                          4463
   2710
                2000
   2711
2712
2713
                2001
2002
                          5624
4475
                                                    MPASSES
TY80CT
                                                                                            /PROGRAM NAME
                                                                                             /NUMBER OF PASSES
                2003
                          6350
                                                    PASSES
                                                                                            /NUMBER OF PASSES
/CALL IS MADE FROM LOCATION 755
/IS USED FOR END OF PASS
/PRINT A * OR * IF NOT ON ACTIVE CONSOLE
/* IS FOR ERROR FREE PASS
   2714
2715
                                                    PRINT
   2716
2717
2718
                2005
2006
                                                     JMP
                                                                  PASSRETURN
   2719
272Ø
                                                                                             / - IS FOR ERROR ON PASS
    2721
2722
                                        /*********
                                        /RE-ENABLE THE RXØ1 INTERRUPT
    2723
   2724
2725
                                       ENDCOMPARE, CLL CLA TAC
                2007
                        7301
                                       INTR
JMP EMPTY
/THIS INTERFACE PARITY ERROR MUST BE ON THE COMMAND WORD TO "EMPTY BUFFER"
   2726
2727
                2010
    2728
                                        /NOTE: IT CAN'T BE ANY OTHER ERROR
    2730
    2731
                                                                                                                                    16:55
                                                                                                                                                PAGE 1-53
                                                                                                         9-JUN-76
                                                                                                                                                                                                           SEQ 0088
/RXB DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                            V142A
                         2157
7410
5271
4407
0015
7650
5776
                                       EMPTYERROR, ISZ PRETRY
SKP
JMP XEMPTYOKNOTOK
   2732
2733
                2013
   2734
2735
2736
                2014
2015
2016
                                                    LAS
AND KØ2ØØ
                                       AND K0200

SNA CLA

JMP EMPTYL

DCA PRETRY

JMP XEMPTYOKNOTOK

/ 1. IF (RETRY) = 0; A NON RECOVERABLE ERROR EXISTS

/ 5. IF THE AC SWITCH IS TO INHIBIT RETRY; A HARD ERROR IS LOGGED

/ 2. IF (RETRY) < -12; AN ERROR HAS JUST BEEN RECOVERED FROM

/ 3. IF (RETRY) = -12; THERE IS NO ERROR TO LOG
   2737
2738
                2017
2020
                 2021
    2739
    2740
2741
2742
2743
2744
2745
    2746
2747
2748
                                        /IF AC SW (3) = Ø
                                        /
PRINT A VALUE SYMBOLIC OF THE TOTAL # OF COMPARE ERRORS DETECTED
                                        /IF 8-BIT MODE THEN THE "SUMCHECK" WILL OVERFLOW INTO BITS Ø TO 3
                                        /THEREFORE MASK THE CONTENTS OF " INSUNCHECK "
    2753
2754
                                        THE RESULT OF THE SUBTRACTION SHOULD . #
                                        /NO MASK IS NEEDED FOR 12-BIT MODE
    2757
                2023 7391
2024 7004
2025 0172
2026 7112
2027 1775°
2030 7430
                                        EMPTYOK, CLL CLA IAC
RAL
AND STESTP
    2760
    2761
2762
                                                     CLL RTR
TAD INSUMCHECK
    2763
                                                     SZL
    2764
2765
2766
                 2031
2032
2033
                                                     AND K377
DCA INSUMCHECK
                          Ø125
3775
                                        LAS
AND K0400
SZA CLA
JMP XEMPTYOK
/IF A SUNCHECK ERROR EXISTS WITHOUT A "COMPRERROR" THEN "FORCE" A TYPEOUT
                           4407
                           0014
7640
                 2035
    2768
    2.769
    2770
    2771
                          1106
7640
5246
1775
7650
5271
    2772
2773
                                                     TAD COMPRERROR
                 2037
                                                     SZA CLA
JMP .+5
TAD INSUNCHECK
                 2040
2041
    2774
    2775
                 2042
    2776
2777
                 2043
2044
                                                      SNA CLA
JMP XEMPTYOK
                                                      JMS FORCE
PRINT
    2778
2779
                 2045
2046
                           4774
    2780
2781
2782
                                                      MSUMCHECK
                           6020
1775°
7640
                 2047
2050
```

TAD INSUMCHECK

SZA CLA

JMP .+4 PRINT

2053

6030

2784

(

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                    PAL10
                                                                                                  V142A
                                                                                                                9-JUN-76
                                                                                                                                              16:55
                                                                                                                                                           PAGE 1-54
                                                                                                                                                                                                                          SEQ 0089
                           4473
                                                        TY40CT
INSUMCHECK
JMP .+4
TAD COMPRERROR
SNA CLA
JMP XEMPTYOK
  2788
                 2057
  2789
2790
2791
2792
                 2060
2061
2062
                           5264
1106
7650
                 2063
2064
                           5271
4463
                                                        PRINT
MDESUMMARY
   2793
  2794
2795
2796
                           6032
4473
                 2965
                                                                                                                 ONLY OCTAL VALUES WILL BE PRINTED
                                                        TY40CT
                                                                                                                  /REPLACES TYBDEX.
                                                        COMPRERROR
  2797
2798
                2067
2070
                           Ø106
5271
                                          JMP XEMPTYOK
XEMPTYOK, LOG
PERRORS
                           4462
7315
   2799
                 2071
                                                                                     /LOG HARD AND SOFT PARITY ERRORS (IF ANY)
                                          /AC SW 0 = 1 ; HALT ON ERROR
   2861
  2802
2803
2804
2805
                           1106
7450
1775°
7650
5773°
4407
                 2073
2074
2075
                                                        TAD COMPRERROR
                                                        SNA
TAD INSUMCHECK
                 2076
2077
2100
2101
2102
   2806
2807
2808
                                                        SNA CLA
JMP JMPICOMPARE
                                                        LAS
                                                        SPA CLA
                           7710
4456
5773
   2809
   2810
                                                                      JMPICOMPARE
   2811
2812
2813
2814
2815
2816
2817
2818
2819
                 2103
                                                        JMP
                                           STOP THE PRESENT TEST AT COMPLETION IF AC SW 1 = 1
                                          ... AND PRINT THE MESSAGE "END OF TEST # RUNTIME"
                2104 2104
2105 4452
2106 5704
2107 2304
                                          XSTOP,
                                                        DONE
                                          JMP I XSTOP
ISZ XSTOP
/RESET (EPASS) = 7777 MEANS NEW PASS
   2820
2821
2822
                                                        STA
DCA EPASS
TAD PASSINPROGRESS
SMA CLA
TAD (7500)
TAD (5500)
DCA MX
DCA PASSINPROGRESS
TAD (PASSES)
JMS LOGCOMMON
                 2110
2111
2112
2113
2114
2115
2116
2117
                           7240
3107
1132
7700
1372
1371
3334
3132
   2823
2824
2825
   2826
2827
2828
   2829
2830
2831
                            1370
                 2121
   2833
2834
                                           /CONSOLE
   2835
2836
2837
                  2122 5766*
                                                         JMP
                                                                       PASMES
                                                                                                    /GO TO LOCATION 753 TO DETERMIND /WHAT TO PRINT FOR A PASS
                                          PASSRETURN, LAS
AND (SW1)
SNA CLA
                            4407
0365
7650
                 2123
   2838
                 2124
2125
2126
    2840
                                                         JMP HLT10+1
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                     PAL10
                                                                                                   V142A
                                                                                                                 9-JUN-76
                                                                                                                                               16:55
                                                                                                                                                            PAGE 1-55
                                                                                                                                                                                                                           SEQ 0090
                 2127 4463
2130 5615
   2843
2844
2845
2846
2847
2848
2849
                                           MEOT
/RESET THE CONSTANTS OF " PATR1 " AND " PATR2 " TO GENERATE A NEW RANDOM
/PATTERN (IF THE PATTERN SELECTION IS 0 THAT IS)
                 2131 4456
2132 4764°
2133 5704
                                           HLT10. HLT
                                          RETIO, HEI
CSPASRETURN, JMS PATSAVE
JMP I XSTOP
/PRINT A " + " IF AN ERROR (FREE) PASS
/PRINT A " - " IF AN ERROR (THIS) PASS
    2850
2851
2852
                  2134 5200
                                           ΜX,
                                                         TEXT "+"
    2855
    2856
2857
                          2135
1171
7640
5336
                                           XSETUP,
                  2135
                                                         TAD TTYBUSY
    2858
2859
286Ø
                  2136
2137
2140
                                                        TAD TTYBUSY
SZA CLA
JMP .-2
TAD (ANDRETURN)
DCA XPRINT
TAD I XSETUP
DCA XANDRETURN
                  2141
2142
2143
2144
2145
2146
    2861
2862
2863
2864
                            1363
3762
1735
3357
    2865
2866
2867
                            2335
5735
                                                         ISZ XSETUP
JMP I XSETUP
    2868
2869
287Ø
                                           /AND RETURN TO HERE WAITING FOR ENTIRE NUMERICAL OUTPUT
                                           ANDRETURN, TAD TTYBUSY
                  2147
2150
                                                         SZA CLA
JMP .-2
    2872
2873
    2874
2875
2876
                                            THEN EXIT FROM HERE FOR MAIN LINE CODE
                                           THENEXIT, TAD I XANDRETURN
                  2152
                  2153
2154
2155
2156
2157
                            3357
3171
                                                         DCA XANDRETURN
DCA TTYBUSY
    2878
                            5757
2157
3227
2147
1006
    2879
                                                          ION
    288Ø
2881
                                                          JMP I XANDRETURN
                                           XANDRETURN,
                  2162
2163
2164
    2882
    2883
2884
                  2165
2166
2167
    2885
                            2000
    2886
2887
                            1000
    2888
                  2170
                             6350
                            5500
7500
    2890
                  2172
    2891
    2892
                  2174
                             3605
    2894
                  2176
                             1697
```

PAGE

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PAL10 V142A 9-JUN-76
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                                         16:55 PAGE 1-56
                                                                                                                                                                                                                   SEQ 0091
                                         SEQUENCE TO THE NEXT AVAILABLE DISKETTE
                2200
   2898
                2201
2202
2203
   2899
2900
                          1272
3173
                                                      TAD UNITZ
                                                      DCA USTART
DCA UNITZ
                                                                                  / STARTING UNIT
/CLEAR FOR A NEW DISKETTE
/WORKING UNIT COUNTER
                           3272
   2901
   2902
2903
2904
                2204
2205
2206
                          1271
7450
1270
                                                      TAD WHNITS
                                                      SNA
TAD UNITS
                                                                                  /EXAUSTED ALL DISKETTES ; RESET
   2905
                 2207
                           3271
                                                      DCA WUNITS
DCA POLL
                                                                                  /CLEAR POLLER
   2906
                 2210
                           3267
   2907
                2211
                           7120
                                                      STL
                                                     TAD POLL
RAR
DCA POLL
TAD POLL
   2908
                2212
                                        NEXT,
                                                                                  /NEXT
                           7010
                          3267
1267
7430
   2910
                2214
   2911
2912
                 2216
                                                      SZL
JMP JMS202
                2217
2220
2221
                          5240
0271
7450
   2913
2914
                                                                                  /NO UNITS AVAILABLE : CATASTROPHIC
                                                      AND WUNITS
   2915
                                                      SNA
   2916
2917
                2222
                                                      ISZ UNITZ
SNA
                           2272
                                                                                  /ACTIVE DISKETTE
                                        JMP NEXT /TRY AGAIN

/A DISKETTE IS AVAILABLE AND SELECTED FOR OPERATIONS

DCA UNITX /A CODED VERSION OF UNIT
                                                      JMP NEXT
   2918
                2224
                          5212
   2919
                2225
                          3273
   2921
2922
2923
                2226
2227
2230
                                                      TAD UNITX
                                                                                  /...DELETE FROM
/...AVAILABLE UNIT LIST (WUNITS)
/...AND CREATE NEW LIST
                                                      CMA
AND WUNITS
                          0271
3271
1272
7106
                2231
2232
2233
2234
2235
   2924
2925
                                                      DCA WUNITS
TAD UNITZ
   2926
2927
                                                      CLL RTL
                                                                                 /BIT 7 OF COMMAND REGISTER
/FOR COMMAND REGISTER LOAD LATER
                           7006
                                                      RTL
   2928
                                                      DCA UNIT
JMP I XGETUNIT
                          5600
                2236
   2930
   2931
2932
                                        /entry to this point may be from subroutine xdelete, if 80-
/NO DRIVES REMANE SELECTABLE THEREFORE, IF ENTRY INTO XGETUNIT WAS
/FROM SA-200, OR SA-201 (INITIALIZATION OF THE PROGRAM), THEN DO NOT
/DUMP THE LOGS-BUT DO JMP AUTORESTART
   2933
   2934
2935
   2936
2937
                                         /A MAXIMUM OF 4 AUTO RESTARTS ARE PERMITTED PRIOR TO AN UNRECOVERABLE /PROCESSOR HLT INSTRUCTION FORCING THE OPERATOR TO MANUALY RESTART
   2938
   2939
2940
                                         /
/1 OR ALL SELECTED DISKETTE DRIVES MAY HAVE FOR SOME REASON BECOME DESELECTED,
/THEREFORE THE PROGRAM WILL TRY TO RESTART USING THE TEST PARAMATERS
/PREVIOUSLY SELECTED AT SA-200
   2941
2942
   2943
2944
                                         /IN SUMMARY, RESTART IF ANY ONE OF THE FOLLOWING:
   2945
                                                                   HARD PARITY ERROR
A SELECTED DRIVE BECAME DESELECTED
UNEXPECTED RX01 INTERRUPT REQUEST
MISSING ERROR FLAG
   2946
2947
                                                       (2)
                                                      (3)
(4)
   2948
                                                                    LOG-COUNTER OVERFLOW
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                 PAL10
                                                                                            V142A
                                                                                                            9-JUN-76
                                                                                                                                        16:55 PAGE 1-57
                                                                                                                                                                                                                   SEQ 0092
                                                                   DEVICE TEST HUNG
  2952
2953
                2237 3275
                                        R5,
                                                     DCA XDELUNIT
  2954
2955
2956
                                         /
/IF ENTRY TO HERE WAS FROM THE AUTOMATIC UNIT SCAN
                                         /THEN DO NOT PRINT THE STATISTICAL REPORT
   2957
2958
2959
                2240 1377
2241 1275
2242 7650
2243 5246
2244 4776
                                        JMS202, TAD (-XAUTO)
TAD XDELUNIT
SNA CLA
   2960
2961
2962
                                                      JMP ,+3
JMS 5202
                                         THE LABLE "XNONE" MUST RESIDE BECAUSE OF REFERENCES MADE FROM "XAUTO"
   2965
  2966
2967
2968
                2245
                                        XNONE, JMP .+3
                          525Ø
                          4463
5504
                                                      PRINT
   2969
297ø
                2247
225Ø
                                                      MNOTREADY
                          4463
                                                      PRINT
                                                      MIDENTIFICATION
CLL STA
RTL
   2971
                2251
                          6336
7340
  2972
2973
2974
                2252
2253
                          7006
                                                      TAD ARESTARTS
SPA SNA CLA
                2254
                          1103
  2975
2976
                                                      JMP .+4
PRINT
MNOGONOMORE
                2256
                          5262
  2977
2978
2979
                          4463
                2257
                2261
                          4456
                                        HLTS.
                                                      HLT
                                                      PRINT
MRS
ISZ ARESTARTS
  2980
                2262
                          4463
  2981
2982
                2263
2264
                          5516
2103
  2983
                2265
                          4450
5775
  2984
2985
                2266
                                                      JMP AUTORESTART
                                                                                /DISKETTE POLL /AVAILABLE UNIT LIST (MAX SYS CONFIGURATION) /CODED WORKING UNIT LIST (UNITS YET TO BE EXERCISED)
                2267
2270
                                        POLL.
                          9000
                                        UNITS, 6
                                                      6000
   2986
                          6000
   2988
  2989
2990
2991
                                        /UNITZ ; UNIT 1 LOOKS LIKE 0001
/UNITX ; UNIT 1 LOOKS LIKE 2000
/UNIT ; UNIT 1 LOOKS LIKE 0020 (RX01 COMMAND WORD BIT 7)
  2992
2993
2994
                                        UNITZ, Ø
                                                                                 /ACTIVE DISKETTE
/ACTIVE DISKETTE IN CODED FORM
/A CODED VERSION OF UNIT Z (FOR COMMAND REGISTER LOAD)
                        9699
                2273
2274
                          9999
                                        UNITX,
UNIT,
  2994
2995
2996
2997
2998
2999
                                         DELETE (UNITX) FROM (UNITS)
                                        /...AND PRINT A MESSAGE TO THE OPERATOR INFORMING HIM OF THE MOST RECENT /DISKETTE DELETION...IF THE ENTRY INTO " XDELUNIT " WAS NOT FROM THE " AUTO " /DISKETTE SCAN (DISKETTE INITIALIZE AT BEGINNNING OF PROGRAM)
   3000
   3001
   3002
```

/...AND SET (SECTORS), AND (TRACKS) = 7777

(.

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(

3004 3005

2275 2275

XDELUNIT, .

```
9-JUN-76
                                                                                                                                           16:55 PAGE 1-58
                                                                                                                                                                                                                      SEQ 0093
/RX8 DATA RELIABILITY/EXERCISER -DIRX8-D
                                                                                                 V142A
                                                                                   PAL10
                 2276 1273
2277 7040
2300 0270
                                                       TAD UNITX
                                                       CMA
AND UNITS
   3007
   3008
                                                       DCA UNITS
                                          /
THIS UNIT IS DELETED; INFORM THE OPERATOR, BUT
/IF THIS UNIT HAS BEEN DELETED BECAUSE IS IS NOT SELECTABLE
/(DOOR CLOSED WITH DISKETTE INSERTED) AND THIS CONDITION WAS
/DETECTED BY THE PROGRAM WHILE SCANNING THE BUS FOR ALL SELECTABLE
//DISKETTE DRIVES TO PERFORM APPLICABLE TESTING, THEN DO NOT INFORM
/THE OPERATOR BECAUSE THIS IS/MAY RE A LEGAL CONDITION
   3010
   3011
   3013
    3015
   3016
                                                       TAD (-XAUTO)
TAD XDELUNIT
                            1377
1275
7650
5325
    3018
                                                                                    /RETURN ADDRESS
                 2303
2304
2305
                                                        SNA CLA
JMP NOINFORM
    3020
   3021
3022
3023
                                                                                    /ENTRY WAS FROM THE AUTO DISKETTE SCAN
                                                        PRINT
                 2306
    3024
3025
                            6042
4473
                                                        MUNIT
                  2307
                                                                                                                /ONLY OCTAL VALUES WILL BE PRINTED /REPLACES TYBDEX.
                  2310
                                                        TY40CT
    3026
                 2311
2312
2313
                            2272
4463
6054
                                                        UNITZ
    3027
                                                        PRINT
MDELETE
    3028
                                          TAD UNITS
SNA CLA
JMP JMS202
/ALSO PRINT THE DRIVES REMAINING SELECTED (IF ANY)
                            1270
7650
5240
    3031
    3032
                  2316
    3034
                                           JMS S202
PRINTDRIVESELECTED
/AND SET (SECTORS) AND (TRACKS) = 7777 TO ABORT TEST ON THIS DRIVE
    3035
3036
3037
                  2317 4776°
2320 4464
    3038
3039
                            724Ø
3135
724Ø
    3040
3041
3042
3043
3044
3045
3046
                                                         DCA SECTORS
                  2322
                                           STA
DCA TRACKS
/IF ALL THE UNITS HAVE BEEN DESELECTED THEN DO NOT PRINT THE INTERUM REPORT
/HERE. AN INTERUM REPORT WILL BE PRINTED WITHIN THE SUBROUTINE "XGETUNIT"
                  2325
2326
2327
                           1270
7650
5240
5675
                                           NOINFORM, TAD UNITS
     3047
3048
3049
                                                         SNA CLA
JMP JM8202
                                                         JMP I XDELUNIT
     3050
     3051
3052
3053
                                           PRINT ON THE TELEPRINTER THE "DRIVES SELECTED" VIA 200, OR 201
                                           ,
XDRIVESELECTED,
                  2331 2331
2332 4463
2333 5470
     3054
3055
                                                         PRINT
                                           MDISKETTE
/IF THERE NO UNITS SELECTABLE, THEN PRINT (NONE)
     3056
     3057
3058
                  2334
2335
2336
                           1270
7640
5344
                                                         TAD UNITS
                                                         SZA CLA
JMP MOREDRIVESELECTED
     3059
                                                                                                                                                                                                                       SEQ 0094
 /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                                                          PAGE 1-59
                                                                                    PAL18
                                                                                                  V142A
                                                                                                                9-JUN-76
                                                                                                                                            16:55
                                                         DRINT
                                          PRINT
MNONE
JMP I XDRIVESELECTED
XMOREDRIVESELECTED, PRINT
MCOMMA
MOREDRIVESELECTED, GETUNIT
                            5446
5731
4463
5502
                  2340
2341
2342
2343
2344
     3062
     3063
    3065
                            4455
     3066
                                                                                                                 /ONLY OCTAL VALUES WILL BE PRINTED
     3067
                  2345
                                                         TY40CT
                                                                                                                 /REPLACES TYBDEX.
     3068
                 2346 2272
2347 4452
2350 5342
2351 5731
    3069
3070
                                                         UNITZ
                                           UNITZ
DONE
JMP XMOREDRIVESELECTED
JMP I XDRIVESELECTED
/ROUTINE TO WAIT FOR SKIP ON AN IOT, IF $KIP DOES NOT OCCUR
/THE ROUTINE WILL PRINT PC POINT IN ERROR AND GO BACK ABOUT ITS
/BUSINESS.
     3071
     3073
     3074
3075
     3076
                  2352
2353
2354
                            0000
1752
3357
                                           XWAIT.
     3077
                                                                      XWAIT
IOTWAT
KM40
                                                                                                                 /GET IOT TO EXECUTE
                                                         TAD I
     3079
                                                         DCA
                            1116
3111
4456
7410
5370
                                                                                                                 /WILL LOOP FOR ABOUT 180 MSEC.
     3080
                  2355
     3081
3082
                  2356
2357
                                                                       HANGER
                                                                                                                 /REPLACED WITH IOT TO EXECUTE.
/DID NOT GET A SKIP YET.
/GOT THE SKIP.UPDATE RETURN,
                                           IOTWAT, HLT
     3083
3084
                  236Ø
2361
                                                         SKP
                                                                       WATEX
                            2164
5357
2111
5357
                   2362
     3085
                                                          ISZ
JMP
                                                                       H1
IOTWAT
                   2363
2364
2365
                                                                                                                 /DID NOT TIME OUT.
     3086
3087
                                                         ISZ
JMP
                                                                       HANGER
IOTWAT
     3088
                   2366
2367
2370
                                                                       XWAIT
HUNGUP
XWAIT
                                                                                                                 /GET ERROR PC
     3089
3090
                             1352
5774
                                                          TAD
                                            WATEX,
                             2352
                                                          ISZ
     3091
     3092
3093
3094
                                                          JMP I
                                            /*******
                   2374
2375
2376
                             5200
0247
      3095
      3096
                             4434
7473
      3097
      3098
                              2400
                                            PAGE
/TEMPORARILY LOCK THE COUNTERS AT -1 FOR AN INTERUM DUMP
      3099
                                            THE ADDRESS PARAMATERS ARE PASSED VIA " I LOCK"
      3101
      3102
3103
                                            /FORM: LOCK; LSB; MSB (OR K7777 IF NO MSB)
      3104
      3105
3106
3107
                            2400
1600
2200
                                            XLOCK,
                   2400
                   2401
2402
                                                          TAD I XLOCK
ISZ XLOCK
```

DCA XXX STA DCA I XXX TAD I XLOCK

DCA YYY

STA DCA I YYY

31Ø8 31Ø9

3110 3111 3112

3113

2403 2404

2405 2406 2407 3004 7240

```
/RX8 DATA RELIABILITY/EXERCISER +DIRXB+D
                                                                                          PAL10 V142A 9-JUN-76
                                                                                                                                                                                                                                         SEC GAGS
                                             JMP RS /INITIALIZE THE NUMBER OF TRACKS ACCESSED VIA THE DIFFERENCE BETWEEN /THE CONTENTS OF PROGRAM LOCATIONS " OD " AND " ID ".
                   2412 5777
   3115
   3116
    3118
3119
3120
                  2413
2414
                                             XINITTRACKS, ... ISZ PASSINPROGRESS
                             2132
                   2415
2416
                              1033
                                                            TAD ID
    3121
    3122
                                                            TAD OD
DCA TRACKS
TAD TRACKS
    3123
3124
                   2417
                              1032
                  2420
                              3160
                              1160
7041
3161
    3125
                                                            CIA
DCA TTRACKS
JMP I XINITTRACKS
    3126
3127
                   2422
    3128
                                                OD (OUTSIDE DIAMETER) ACTUATOR POSITION INITIALIZED TO (6)
    3129
    3130
                                              /
/ ID (INSIDE DIAMETER) ACTUATOR POSITION INITIALIZED TO 114 (76 DECIMAL)
    3131
3132
3133
                                             / * XGETATRACK * WILL GET A TRACK VALUE BETWEEN THE LIMITS OF THE CONTENTS OF /PROGRAM LOCATION OD (MIN 0), AND THE CONTENTS OF ID (MAX 114).
    3134
    3135
3136
                                              /
/GET A DISKETTE TRACK TO BE (AC) WITHIN IOT LCD-B
    3137
3138
3139
                                             / / IF THIS IS THE " FIRSTMOVE ", (START) IS NOT APPLICABLE HERE, BUT / WILL BECOME APPLICABLE WITHIN SUBROUINE " XGETASECTOR ".
    3140
3141
3142
                  2425
2426
                            2425
                                             XGETATRACK, TAD TARGET
                                                                                           /PRESENT ACTUATOR POSITION (FROM PREVIOUS LCD-B)
/BECOMES STARTING ACTUATOR POSITION
    3143
3144
3145
                   2427
2430
2431
                                                            DCA START
TAD (70)
AND TESTP
                              3140
1376
                              0145
7110
7012
1375
                                                            CLL RAR
RTR
TAD (TAD SEQ)
    3146
3147
3148
                  2432
2433
2434
    3149
3150
3151
                   2435
2436
2437
                              3236
1242
3241
                                                            DCA .+1
TAD SEQ
                                             DCA .+2
RESEQUENCE, JMP I .+1
SEGRANDOM
    3152
3153
3154
                   2441
                              2452
                                              /TRACK ACCESS SEQUENCE IS SELECTED VIA AC SWITCHES 6,7,8 AT L/S 200
    3155
                                              /
/ Ø - RANDOM
    3156
                                             / 0 - RANDUM
/ 1 - INCREMENTAL OD TO ID
/ 2 - DECREMENTAL ID TO OD
/ 3 - COMBINATION OF SEO 0, AND SEQ 1 (INC/DEC)
/ 4 - BOUNCE ID TO OD ONLY
/ 5 - BOUNCE; (ID, OD; ID-1, OD+1; ...ETC TO 47, 45)
/ 6 - STROBE; (ID, OD; ID-1, OD; ...ETC TO 1, 0)
/ 7 -
    3157
    3158
3159
    3160
    3161
3162
3163
   3164
3165
3166
                  2442 2452
2443 2470
2444 2501
2445 2632
                                                            SECRANDOM
SECINC
                                             SEQ,
                                                            SEQDEC
SEQID
   3168
3169
                                                            SECABOUNCE
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                          PAL18
                                                                                                                        9-JUN-76
                                                                                                                                                       16:55
                                                                                                                                                                     PAGE 1-61
                                                                                                                                                                                                                                         SEQ 0096
                 2447 2545
2450 2600
   3170
                                                            SECRECIMOE
   3171
3172
                                                            SEGSTROBE
                  2451
                              0405
                                                            NOTEST
   3172
3173
3174
3175
3176
3177
3178
                                             /RANDOM ACTUATOR ACCESS
                                            / SEGRANDOM, TAD SEGR1
DCA R1
TAD SEGR2
DCA R2
JMS RANGEN
AND (177)
DCA TARGET
TAD R1
DCA SEGR1
                  2452
2453
2454
2455
                             1266
3774*
1267
3773*
4772*
0371
   3179
3180
                  2456
2457
2460
2461
2462
2463
2464
2465
2466
2467
                             3144
1774
   3181
   3182
3183
3184
                             3266
1773
                                                            TAD R2
DCA SEQR2
JMP XSEQ
   3185
3186
3187
                             3267
5312
                                             SEGR1,
SEGR2,
   3188
3189
3190
                                             /
/INCREMENTAL ACTUATOR ACCESS (OD INCREMENTALLY TO ID)
   3191
3192
                                            SEGINC, TAD TTRACKS
TAD TRACKS
SZA CLA
JMP +-3
TAD OD
JMP DCATARGET
TAD TARGET
IAC
JMP DCATARGET
JMP DCATARGET
//DECREMENTAL ACTUATOR ACCESS (ID TO OD)
                  2470
2471
2472
2473
2474
2475
2476
2477
                            1161
   3193
3194
3195
3196
                             1160
7640
5276
1032
5311
1144
   3197
3198
3199
   3200
3201
3202
                  2501
2502
2503
2504
2505
                                             SEGDEC, TAD TTRACKS
TAD TRACKS
SZA CLA
JMP .+3
TAD ID
   3203
3204
3205
                             1160
7640
5307
1033
5311
1144
1113
   3206
3207
3208
                  2506
2507
2510
                                                            JMP DCATARGET
TAD TARGET
TAD K7777
   3209
3210
   3211
                                             DCATARGET, DCA TARGET
   3212
3213
                                             PREVIOUSLY AT L/S THE FOLLOWING CONDITION WAS TRUE
   3214
3215
3216
                                                                           \emptyset <= (OD) <= (ID) <= 32
   3217
                                              THEREFORE TEST FOR THE CONDITION
   3218
                                                                           (TARGET) <= (ID)
   3220
   3221
3222
3223
3224
                                             XSEQ,
                                                            TAD ID
CIA
TAD TARGET
```

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/RX8 DATA RELIABILITY/EXERCISER -DIRX8-D
                                                                                 PAL10 V142A
                                                                                                              9-JUN-76
                                                                                                                                         16155 PAGE 1-62
                                                                                                                                                                                                                     SEQ 4697
                                                       JMP RESEQUENCE
                                         /AND TEST FOR THE CONDITION
   3226
   3227
                                                                    (OD) <= (TARGET)
   3228
3229
                2517 1144
2520 7041
2521 1032
2522 7740
2523 5240
                                                       TAD TARGET
   3230
                                                       CIA
TAD OD
   3231
3232
3233
3234
3235
3236
3237
                                                       SMA SZA CLA
JMP RESEQUENCE
                                         / (TARGET) >= (0D)
                                         / 2ND TEST ; (TARGET) MUST NOT = THE "VIRGIN " TRACK # 46 (38 DECIMAL)
   3238
3239
3240
3241
3242
3243
3244
3245
3246
                                         / ; RESET TO Ø
                                                       TAD (-46): TAD TARGET: SNA CLA: DCA TARGET
                 2524
2525
2526
2527
2530
                                                        JMP I XGETATRACK
                          5625
4472
0002
                                         TABGO,
                                                       TAB
                                                       Y80CT
   3247
3248
3249
3250
3251
3252
                                                       PASSES
PASSES+1
                                                                                                              /NOT USED
                                                       JMP NOTICK
                 2531 5770
                                          MSDNUNEXPECTED, TEXT "_UNEXPECTED RXØ1 IRQ"
                 2532
                          3725
                 2532 3725
2533 1605
2534 3020
2535 0503
2536 2405
2537 04440
2540 2230
2541 6061
2542 4011
2543 2221
2544 0000
   3254
3255
3256
                                          /BOUNCE ; ID TO OD
                                          THEREFORE 76 (NOT 77) TRACKS ARE TESTED
   3257
3258
3259
                                          /
SEQBBOUNCE, TAD TTRACKS
TAD TRACKS
SZA CLA
JMP Q40D
                 2545 1161
2546 1160
2547 7640
2550 5355
    3260
3261
3262
                                          /FIRST ENTRY INTO SEQUENCE # 4
    3263
3264
3265
3266
3267
3268
                                          /IF (TRACKS) = [ (ID)=(OD) ] IS A NEGATIVE ODD THEN INCREMENT (TRACKS)
                                                       CLA IAC
AND TRACKS
SZA CLA
ISZ TRACKS
                  2551
                          7261
                 2552 Ø16Ø
2553 764Ø
2554 216Ø
    3269
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                  PAL10 V142A 9-JUN-76
                                                                                                                                          16:55
                                                                                                                                                        PAGE 1-63
                                                                                                                                                                                                                     SEQ 0098
                                          /IF (TRACKS) = -ODD ; BOUNCE TO OUTSIDE DIAMETER, BUT
   3270
   3271
3272
                                          /IF (TRACKS) = -EVEN ; BOUNCE TO INSIDE DIAMETER
   3273
3274
3275
                 2555 7201
2556 0160
2557 7650
2560 5767
2561 7240
2562 1161
2563 1160
2564 7110
                                                       CLA IAC
AND TRACKS
SNA CLA
JMP Q46ID
                                          Q40D,
    3276
3277
3278
3279
                                                        STA
                                                       TAD TTRACKS
TAD TRACKS
CLL RAR
JMP Q460D
    3280
3281
3282
3283
3284
                 2566
2567
2570
2571
2572
2573
2574
2575
                          2627
2621
4526
Ø177
    3285
3286
3286
3287
3288
3289
3290
                           3333
3350
3347
                 2574 3347
2575 1242
2576 8070
2577 2237
2600
    3292
3293
    3294
3295
                                          /
// (TRACKS) = -EVEN ; THEREFORE THE BOUNCE IS TO THE INSIDE DIAMETER
    3296
3297
3298
3299
3300
3301
3302
3303
3304
                                          //
/O4ID, TAD TTRACKS; TAD TRACKS; CLL RAR; CIA; TAD ID; DCA TARGET; JMP XSEQ
/STROBE ID, OD; ID-1, OD; ID-2, OD; ...ETC...
                 2600 1161
2601 1160
2602 7640
2603 5214
                                          SEGSTROBE, TAD TTRACKS
                                                       TAD TRACKS
SZA CLA
JMP Q60D
                                          /FIRST ENTRY INTO SEQUENCE # 6
    3305
3306
3307
3308
3309
                  2604 1160
2605 7101
2606 7004
2607 3160
                                                        TAD TRACKS
                                                       CLL IAC
RAL
DCA TRACKS
TAD TRACKS
    3310
3311
3312
                 2610
2611
2612
2613
                            1160
7041
3161
5221
                                                        CIA
DCA TTRACKS
    3313
3314
3315
                                                        JMP Q46ID
                                          / / IF (TARGET) = (0D), THEN STROBE TO INSIDE DIAMETER
    3316
3317
3318
                  2614 1144
2615 7041
2616 1032
2617 7640
                                                        TAD TARGET
                                          Q6OD.
                                                        CIA
TAD OD
    3319
                                                        SZA CLA
JMP Q460D
    3321
3322
3323
                  2620 5227
```

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/RX8 DATA RELIABILITY/EXERCISER +DIRXB+D
                                                                                               PAL10 V142A 9-JUN-76
                                                                                                                                                               16:55 PAGE 1-64
                                                                                                                                                                                                                                                    SEQ 0099
    3325
3326
3327
                   2621
                                               Q46 ID.
                                                               TAD TTRACKS
                              1160
7110
7041
1033
7410
                                                               CLL RAP
                   2623
                   2624
2625
    3328
                                                               CIA
    3329
3330
3331
                                                                TAD 1D
                   2626
2627
                                                               SKP
                               1 \(\pi \) 3 2 3 1 4 4 5 7 7 7 4
                                                               TAD OD
DCA TARGET
                                               Q460D.
    3332
                   2631
                                                               JMP XSEQ
   3334
3335
                                                   ***** THE RTC IS REQUESTING SERVICE *****
    3336
3337
3338
                                                / OD+1 INCREMENTALLY TO ID; ID-1 DECREMENTALLY TO OD
                                               SEQID.
                                                              TAD TTRACKS
                   2632
                               1161
                                                              TAD TTRACKS
TAD TRACKS
SZA CLA
JMP XSEQ2
TAD TRACKS
CLL RAL
TAD (2)
DCA TRACKS
TAD TRACKS
                   2633
2634
2635
                               1160
7640
5245
    3339
3340
3341
3342
3343
3344
3345
3346
                               1160
7104
1376
3160
1160
                   2636
2637
                   2640
2641
2642
                                                                                               / (TRACKS X 2)=2 = 152(MAX VAL)
                                                TAD TRACKS
CIA
DCA TTRACKS
/INCREMENT IF (TRACKS) < [ (ID)=(OD) ]
/DECREMENT IF (TRACKS) => [ (ID)=(OD) ]
XSEQ2, TAD OD
CIA
    3347
3348
3349
3350
3351
3352
                   2643
                               7641
                               3161
                              1032
7041
                   2646
2647
2650
2651
                                                               TAD ID
TAD TRACKS
SMA CLA
    3353
3354
3355
                               1033
1160
7700
    3356
3357
                               5775°
5774°
                                                               JMP SEGDEC
JMP SEGINC
                                                                                               / ID TO OD / OD TO ID
                   2653
    3358
    3359
3360
                                                /BOUNCE; ID, OD ONLY
                                              SEQABOUNCE, TAD TTRACKS
TAD TRACKS
SZA CLA
JMP XSEQ3
                               1161
1160
7640
5265
7344
3160
                   2654
2655
2656
2657
    3361
    3362
3363
3364
3365
3366
3367
3368
3369
3370
                                                               CLL STA RAL
DCA TRACKS
                   2661
                                                              TAD TRACKS
CIA
DCA TTRACKS
TAD TARGET
CIA
TAD OD
                   2662
2663
2664
2665
                               1160
7041
3161
1144
                                               XSEQ3.
                               7041
1032
7650
    3371
3372
                   2666
2667
    3373
                    2670
                                                               SNA CLA
    3374
3375
3376
                                                               TAD ID
SNA
TAD OD
                   2671
2672
                               1033
7450
                   2673
                               1632
    3377
3378
                                                               DCA TARGET
JMP XSEQ
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                                                                              PAGE 1-65
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                                                                                                              V142A
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                                                                                                                                                                                                                                                     SEQ 0100
   3380
3381
3382
                                                TYPE 4 OCTAL
                              2676
7410
3171
                                               XTY40CT.
    3383
                   2676
    3384
3385
                   2677
2700
                                                               SKP
                                                               DCA
                                                                               TTYBUSY
                                                                                                                               /INITIALIZE TTYBUSY INDICAOR.
    3386
3387
3388
                               4467
2676
1676
                   2701
                                                               SETUP
                                                              SETUP
XTY4OCT
TAD I XTY4OCT
ISZ XTY4OCT
DCA XOCTAL
TAD I XOCTAL
DCA XOCTAL
CLL STA RTL
TAD K7777
DCA DICTOR
                   2702
2703
    3389
3390
3391
                               2276
3360
1760
                   27Ø4
27Ø5
                                                                                               /FOR " OCTAL " ADDRESS
                   2706
    3392
3393
3394
                                                                                               /OCTAL
/ -3
/ -1
                   2707
2710
                               336Ø
7346
                   2711
                               1113
    3395
3396
3397
3398
3399
3400
                                                               DCA DIGITS
CLL STA RTL
DCA SHIFTS
                               3361
7346
3363
                   2714
2715
2716
2717
                               1360
7100
7510
7020
7004
2363
                                                                TAD XOCTAL
                                                                CLL
                                                XSHIFT,
    3401
3402
3403
3404
                                                               CML
RAL
ISZ SHIFTS
                   2720
2721
                   2722
2723
                                                                JMP XSHIFT
DCA XOCTAL
TAD XOCTAL
                               5316
    3405
3406
                   2724
2725
                                                                                               /NEW
                               1360
    3407
3408
3409
                   2726
2727
2730
                               0131
7450
5340
                                                                AND K0007
                                                                                                                                OCTAL MASK
                                                               SNA
                                                JMPDIG.
                                                                                                                                /DO NOT PRINT LEADING ZEROS.
/STORE NUMBER TO BE PRINTED
                                                                               ISZDIG
    3410
3411
3412
                   2731
2732
2733
                               3362
1127
                                                                DCA
TAD
                                                                               XXDMP
K7000
                                                                                                                                /NOP JMP ISZDIG. LEADING ZEROS WILL NOT BE PRINTED /RETURN VALUE TO BE PRINTED. /FOR ASCII COMPONENT
                               3330
                                                                DCA
                                                                                 . -3
    3413
3414
3415
                               1362
1373
4474
                                                                               XXDMP
                                                                TAD XX
TAD (260)
                   2734
2735
2736
2737
2740
2741
2742
2743
2744
2745
2746
2747
2750
                                              TYPE1:
ISZ CCN:
ISZDIG, ISZ DIGITS
JMP SHIFT
ISZ XCNT
""B XTY40CT+2
    3416
3417
3418
                               2364
2361
5313
                                                                                                                                /INDICATES A CHARACTER HAS BEEN PRINTED /INDEX DIGIT COUNT
    3419
3420
3421
3422
3423
                               2124
5300
                                                                                                                                /TYBOCT?
/YES
                               1364
7650
5355
                                                                SNA CLA
                                                                                                                                /PRINT ONLY A ZERO??
                                                                               ZERO
                                                                JMP
                                                                                                                                /YES
    3424
3425
                                                                CLL CLA CMA
DCA XCNT
                                                                                                                                /INIT COUNTER
    3426
                    2751
                                3364
                                                                DCA
                                                                               CONT
                    2752
2753
2754
2755
    3427
                                1372
                                                                TAD
                                                                                (JMP
                                                                                               ISZDIG)
                                                                                                                                /ESTABLISH FIRST TIME SWITCH.
    3428
3429
3430
                               3330
5771
1373
                                                                                JMPDIG
THENEXIT
                                                                DCA
                                                                JMP
TAD
                                                ZERO.
                                                                                (260)
    3431
3432
3433
                    2756
2757
                                                                TYPEIT
JMP
```

.-10

/ " OCTAL " FOR TYPEOUT

XOCTAL,

```
16:55
                                                                                                                                                                        PAGE 1-66
                                                                                                                                                                                                                                                SEQ 0101
                                                                                             PAL10 V142A 9-JUN-76
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                              DIGITS, -3
                   2761
                  2762
2763
2764
                                              XXDMP, Ø
SHIFTS, -3
CCNT, Ø
                              7775
   3435
3436
3437
3438
3439
3440
3441
3442
3443
3444
                              8686
                  2772
2773
2774
2775
2776
                              5340
                              9269
2479
2591
                              ØØØ2
2512
                               3000
                                              PAGE
                                               /
/INITIALIZE THE NUMBER OF SECTORS AVAILABLE TO ACCESS (PER TRACK) VIA THE
/DIFFERENCE BETWEEN THE CONTENTS OF PROGRAM LOCATIONS * FIRST * AND * LAST *.
    34467
34449
34459
34551
34556
34556
34556
34556
34661
34664
                   3000 3000
3001 1035
3002 7040
3003 1034
3004 3135
                                               XINITSECTORS,
                                                              TAD LAST
CMA
TAD FIRST
                                                               DCA SECTORS
DCA XSTARGET
JMP I XINITSECTORS
                    3005
                                3270
                                5600
                                                GET A SECTOR
                                                /SECTOR ACCESS 1-32 (OCTAL)
                                                XGETASECTOR, .
                   3007 3007
                                                /SET (SSTART)
     3465
3466
3467
                              7301
3146
1133
7450
2146
7710
2146
7301
                    3010
3011
3012
3013
3014
3015
3016
3017
                                               XXGETASECTOR, CLL CLA IAC
DCA IF
TAD RDC
                                                                                                              / (RDC) - Ø IF READ VERIFY, 4000 IF WRITE, 1 IF READ
     3468
3469
3470
                                                                                                              / + 1 READ AND PROGRAM VERIFY
                                                               SPA CLA
     3471
3472
3473
3474
3475
3476
3477
3478
3479
                                                               ISZ IF
CLL CLA IAC
RAL
                                                                                                               / +1 WRITE
                    3020
3021
3022
                                7004
0172
7650
                                                               AND STESTP
SNA CLA
JMP .+3
ISZ IF
                    3023
3024
3025
                                5226
2146
2146
                                                                                                               / +1 FOR 8 BIT MODE
/ +1 FOR 8 BIT MODE
                                                                1SZ IF
     3480
3481
3482
3483
                                                /THE INTERLEAVE FACTOR (IF) IS:
                                                / 1 +1 IF READ (CRC CHECK)
                                                / 1 +1 IF WRITE
/ 2 +1 IF WRITE 8-BIT MODE
/ 3 +1 IF WRITE 8-BIT MODE
/ 2 +1 IF READ AND PROGRAM VERIFY
/ 4 +1 IF READ AND PROGRAM VERIFY 8-BIT MODE
     3484
3485
      3486
                                                                                                                                                              16:55
                                                                                                                                                                          PAGE 1-67
                                                                                                                                                                                                                                                   SEQ 0102
                                                                                                               V142A
                                                                                                                              9-JUN-76
  /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                               PALIØ
     3488
3489
3490
                                                 / 2 +1 IF READ 8-BIT MODE
                              1270
7440
1146
7001
3270
                                                 NEXTSECTOR, TAD XSTARGET
                                                                TAD IF
IAC
DCA XSTARGET
TAD XSTARGET
TAD (-33)
                     3027
3030
3031
3032
      3491
3492
                                                                                                               / 1,2, OR 3, OR 4
/ +1
      3493
3494
3495
3496
                                3270
1270
1377
7510
5244
7640
7240
1376
1270
                      3033
3034
                                                                JMP OKSTARGET
SZA CLA
STA
TAD (-31)
TAD XSTARGET
      3497
3498
3499
                      3035
3036
3037
                                                                                                                / < 33
                                                                                                                /SKIP IF = 33
/ > 33
                      3040
3041
3042
3043
3044
      3500
3501
3502
                                                 DCA XSTARGET
OKSTARGET, CLA
TAD XSTARGET
DCA STARGET
      3503
3504
3505
                                 3270
7200
                      3045
                                1278
       3506
                                                                                                                / "TARGET SECTOR"
      35Ø7
35Ø8
                                                  PREVIOUSLY AT L/S THE FOLLOWING CONDITION WAS TRUE
      3509
3510
3511
                                                                                 \theta < (FIRST) <= (LAST)
      3511
3512
3513
3514
3515
3516
3517
3518
3519
                                                  /THEREFORE TEST FOR THE CONDITION
                                                                                 (STARGET) <= (LAST)
                                1035
7041
1137
7740
                                                                 TAD LAST
CIA
TAD STARGET
                      3047
3050
                      3051
3052
                                                                 SMA SZA CLA
JMP NEXTSECTOR
       3520
                                  5226
       3521
3522
       3523
3524
3525
                                                  AND FOR THE CONDITION
                                                                                 (FIRST) <= (STARGET)
       3526
3527
3528
3529
3530
3531
3532
3533
3533
3535
3536
3537
3538
3539
                                                  PAGE1, TAD STARGET
CIA
TAD FIRST
SMA SZA CLA
JMP MEXTSECTOR
/FORMAT (XTARGET) BITS 0-6 TRACK; AND BITS 7-11 SECTOR
                      3054 1137
3055 7041
3056 1034
3057 7740
3060 5226
                       3061
3062
3063
3064
3065
3066
3067
                                  1144
7104
7006
7006
                                                                  CLL RAL
RTL
RTL
```

8666

XSTARGET, Ø

3070

3540 3541 3542

TAD STARGET DCA XTARGET JMP I XGETASECTOR

/ 1 TO 32

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                             PAL10
                                                                                                           V142A 9-JUN-76
                                                                                                                                                           16:55 PAGE 1-68
                                                                                                                                                                                                                                              SEQ 0103
                              1153
7650
                                               WHAT2, TAD DWSLOG
                                                              SNA CLA
JMP WHAT3
    3545
                    3072
    3546
3547
3548
3549
3550
                    3073
3074
                              5775
                                                              TAD RETRY
                   3075
3076
3077
                              3153
4162
7305
                                                              OCA DWSLOG
                                                              LOG
                                                              DATAERRORS
    3551
3552
                    3100
                               5775
                                                              JMP WHAT3
                    3101
                                               MMUNRECOVERABLE, TEXT "UNRECOVERABLE "
                              2516
                    3102
                              2205
0317
                   3103
3104
3105
                              26Ø5
22Ø1
                              0214
0540
0000
                   3106
3107
                    3110
    3554
                                               /THIS SUBROUTINE IS ENTERED FROM ALL 3 STARTING ADDRESSES
    3555
3556
                                               THIS SUBROUTINE CHECKS FOR OD, ID, FIRST, AND LAST TO BE STANDARD
    3557
3558
3559
                                               AND REPORTS A NON-STANDARD MESSAGE IF OTHERWISE
     3560
                                               /THE STANDARD SELECTIONS ARE: OD = 1, ID = 114, FIRST = 1, LAST = 32
    3561
3562
                                              CHECK.
                              3111
4463
6124
4473
Ø145
4463
5611
7240
1032
7640
                   3111
3112
3113
3114
3115
3116
3117
    3563
3564
3565
                                                              PRINT
                                                              MTESTP
TY40CT
    3566
3567
3568
                                                              TESTP
PRINT
                                                              MCRLF
                   3120
3121
3122
    3569
3570
                                                              STA
TAD OD
                                                              TAD OD

SZA CLA

JMP NSTANDARD

TAD ID

TAD (-114)

SZA CLA

JMP NSTANDARD
    3571
                   3122
3123
3124
3125
3126
3127
    3572
3573
3574
                              5340
1033
1374
7640
5340
7240
1034
7640
5340
1035
1373
5711
4463
5717
                                            AD IL
AD (-1
SZA CLA
JMP NSTAND.
STA
TAD FIRST
SZA CLA
JMP NSTANDARD
TAD LAST
TAD (-32)
SNA CLA
JMP I CHECK
NSTANDARD, PRINT
MOD
TY40CT
OD
PRINT
MID
    3575
3576
3577
                   3130
3131
3132
3133
3134
3135
3136
3137
    3578
3579
    3580
    3581
3582
3583
3584
    3585
3586
3587
3588
3588
                   3140
3141
3142
3143
3144
                              4473
0032
4463
    3590
/RXB DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                            PALIS
                                                                                                          V1424
                                                                                                                          9-JUN-76
                                                                                                                                                          16:55
                                                                                                                                                                        PAGE 1-69
                                                                                                                                                                                                                                             SEQ 0104
   3591
                  3146
3147
                                                             TY40CT
                             0033
4463
5727
4473
   3592
                                                             ID
                                                             PRINT
   3593
3594
3595
                  3150
3151
3152
                                                             MFIRST
                                                             TY40CT
FIRST
PRINT
   3596
3597
3598
                  3153
3154
3155
                              0034
4463
5734
4473
                                                             MLAST
   3599
3600
                  3156
3157
                                                             TY40CT
LAST
                              0035
   3601
                  3160
                              5711
                                                             JMP I CHECK
   3602
3603
   3604
3605
                                             /CONSOLE
   3606
                                             /THIS ROUTINE IS FOR XKCC LOCATION 5511 IT WILL STORE THE CORRECTED /8 BIT CHARACTER FROM THE TTY IN LOC CHAR IN FLD 1 FOR THE CSCNTR ROUTINE
   3607
3608
3609
   3610
3611
3612
3613
3614
3615
3616
                                                            C8TST2, Ø
TAD
CDF 1Ø
DCA I X0
TAD I X0
CDF Ø
JMP I C0
                  3162
3163
3164
3165
                             1372
6211
3776
1770
                                                                             (200
                                                                                                           /ADDD THE 8 TH BIT
                                                                                                           /STORE IT IN CHAR FLD 1
/GET THE CHAR
/RETURN TO CORRECT FIELD
/EXIT C8TST2
                                                                            XC8CHAR
                                                                            XCBCHAR
                  3166
                              6201
5761
1110
   3617
3618
3619
                  3167
3170
                                                                            CSTST2
                                             XCRCHAR.
                                                                            CRCHAR
   3620
3621
3622
                  3172
3173
3174
3175
3176
                             0200
7746
7664
1552
7747
7745
3200
   3623
3624
   3625
                                             PAGE
   3626
3627
3628
3629
3630
3631
3632
                                             /SUBROUTINE ; TAB
/ENTRY ; TAB; +N
/COMMENT ; PRINT " N " SPACES WHERE N IS VIA INDEXED XTAB
                  3200
3201
3202
3203
3204
                             3200
4467
3200
3226
7200
                                             XTAB,
                                                             SETHE
                                                            SETUP
XTAB
DCA XXTAB
CLA
TAD XXTAB
TAD I XTAB
DCA XXTAB
   3633
3634
3635
3636
                                                                                            /FOR COUNT
                                             XTABL.
                  32Ø5
32Ø6
                              1226
   3637
                              1600
                                                                                            /FOR " N "
   3638
                  3207
3210
                              3226
   3639
3640
3641
3642
                              1305
                                                            TAD CHARLINE
                                                                                               # OF CHARACTERS ALREADY TYPED ON THIS LINE
                  3211
3212
                              1377
                                                             TAD (110)
                                                                                            / 72 CHARACTER LINE STANDARD
                              7941
                                                            CIA
TAD XXTAB
SPA SNA
JMP XTABL
                  3213
3214
3215
                              1226
7550
```

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                          PAL10 V142A 9-JUN-76
                                                                                                                                                      16:55
                                                                                                                                                                   PAGE 1-70
                                                                                                                                                                                                                                      SEQ 0105
    3646
3647
                   3217
3220
                             3226
2200
                                                            DCA XXTAB
                             1376
4474
2226
5221
                                                            TAD (240)
TYPEIT
     3648
                   3221
     3649
3650
3651
                   3222
3223
3224
                                                            ISZ XXTAB
JMP .-3
JMP THENEXIT
     3653
                    3226
                              0000
                                              XXTAB.
     3654
3655
                                              /SUBROUTINE ; PRINT
     3656
                                              /ENTRY
                                              COMMENT; PRINT A " MESSAGE ", AND A CCR>CLF> AT EACH ...
     3658
                                              / CALL SYNTAX FOP PRINT / 1. PRINT; MTEXT
     3659
3660
     3661
     3662
                                             XPRINT, CHEK22
                   3227
3230
3231
3232
3233
                            3227
4500
5322
1171
7640
     3664
                                                                                                         /TEST FOR APT-8
                                                            JMP PNTE
TAD TTYBUSY
SZA CLA
     3665
3666
                                                                           PNTEXT
                                                                                                                                      /ON APT. NOP PRINT
     3667
     3668
                    3234
                                                            JMP .=2
                                             TAD I XPRINT
ISZ XPRINT
DCA MESSAGE
NUWORD, TAD I MESSAGE
OUTPUT
TAD I MESSAGE
ISZ MESSAGE
     3670
                   3235
                               1627
                                                                                           / " TEXT"
                              2227
3247
1647
     3671
3672
3673
                   3236
3237
3240
                                                                                           /ADDRESS
                              1047
4250
1647
2247
4436
4250
5240
0000
4250
                   3241
3242
3243
3244
3245
3246
     3674
3675
                                                                                           /LEFT BYTE
     3676
     3677
3678
3679
                                                            BSW
OUTPUT
                                                                                           /RIGHT BYTE
                                                            JMP NUWORD
     3680
3681
                                              MESSAGE, Ø
                                              OUTPUT=JMS .
                                             OUTPUT-...
XOUTPUT, .
AND (-100)
                   3250
3251
3252
                              3250
0374
7440
     3682
3683
                                                                                          /MASK MS BITS 0-5
                                                            SZA
JMP .+3
DCA TTYBUSY
JMP PIEXIT
     3684
     3685
3686
3687
                   3253
3254
3255
                              5256
3171
5773
                                                            TAD (4100)
SNA
JMP NULINE
TAD (-4100+2)
     3688
3689
3690
3691
                   3256
3257
3260
3261
                              1372
7450
5267
1371
                                                                                           /CODE 200
                   3262
3263
3264
3265
3266
3267
3270
     3692
3693
                              7500
7001
                                                            SMA
IAC
                                                                                           /CODE 300
      3694
                              4436
4474
                                                            BSW
TYPEIT
     3695
                                             JMP 1 XOUTPUT
NULINE, TAD XOUTPUT
DCA XTYPELT
     3696
                              5650
                              1250
3272
     3697
     3699
                    3271
                              5276
                                                            JMP XNULINE
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                         PAL10
                                                                                                       V142A
                                                                                                                      9-JUN-76
                                                                                                                                                    16155
                                                                                                                                                                  PAGE 1-71
                                                                                                                                                                                                                                    SEQ 0106
                           3272
4306
2305
   3700
                                            XTYPEIT,
                  3272
                                           XTYPEIT,

JMS TYIASC

ISZ CHARLINE

JMP I XTYPEIT

XNULINE, TAD (212)

JMS TYIASC

TAD (212)

JMS TYIASC

TAD (-110)

DCA CHARLINE

JMP I XTYPEIT

CHARLINE,
   3701
3702
3703
                  3273
3274
3275
                             5672
   3704
3705
3706
                  3276
3277
                             1370
                                                                                         / <CR>
                             4306
                            1367
4306
1366
                  3300
                                                                                         / <LF>
   3707
3708
                  3301
3302
   3709
3710
3711
                  3303
                             33Ø5
5672
                                                                                         / 72 CHARACTER LINE (NEGATIVE NOTATION)
                  3305
                             7670
                                            CHARLINE,
                                                                         -110
                                                                                         / # CHARACTERS PER LINE ARE COUNTED HERE
   3712
3713
3714
                                           TY1ASC, DCA A13
CHEK22
                 3306
3307
3310
3311
3312
3313
3314
                            3306
   3715
3716
3717
3718
3719
3720
                            3013
4500
                            5322
1013
6046
7200
                                                           JMP PNTEXT
TAD A13
                                                                                                                      /ON APT. EXIT AND CONTINUE.
                                                           TLS
                                                           CLA
TAD TTYBUSY
SZA CLA
   3721
3722
3723
                  3315
3316
3317
                            1171
7640
5773°
                                                           JMP PIEXIT
152 TTYBUSY
   3724
3725
                 3320
3321
3322
                            2171
7410
2227
                                                           SKP
   3726
                                            PNTEXT, IS2
                                                                         XPRINT
                                                                                                                      /UPDATE FOR RETURN
   3727
                  3323
                             6001
                                                           ION
JMP I XPRINT
   3728
3729
                             5627
                                            /IF THE CONTENTS OF A13 = 207 (BELL) THEN EXIT VIA A JMP I XTYPEIT /SO NOT TO INC CHARLINE FOR THE NONPRINTING BELL CHARACTER
   3730
   3731
3732
                                                         TCF
TAD A13
TAD (-207)
SNA CLA
JMP I XTYPEIT
JMP I TYIASC
                 3325
3326
3327
3330
                          6042
1013
1365
7650
5672
5706
                                            XTCF,
   3733
3734
   3735
                  3331
   3736
3737
3738
3739
3740
3741
3742
3743
                                            /RANDOM NUMBER GENERATOR
/ (EXIT IS WITH THE RANDOM # IN THE ACCUMULATOR)
                          3333
7301
1347
1350
7106
3347
1350
                 3333
3334
3335
3336
3337
3340
3341
3342
3343
3344
                                                         CLL CLA IAC
TAD R1
TAD R2
CLL RTL
   3746
3747
3748
                                                          DCA R1
TAD R2
                             7012
                                                           RTR
   3749
                            1347
                                                           TAD R1
                                                          DCA R2
   3751
                            1350
5733
                                                           TAD R2
```

3754

JMP I RANGEN

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                            PAL10
                                                                                      V142A
                                                                                                     9-JUN-76
                                                                                                                                         PAGE 1-72
                                                                                                                                                                                                    SEQ 0107
                                       VERROR REPORTER FOR APT. INDICATES THE PC AT THE TIME OF THE ERROR.
   3757
   3758
3759
                3351
3352
3353
                          ииаа
                                      XAERRO.
                         3004
                                                                                                      /SAVE ERROR PC
   3760
                                                   CHEK22
                3354
3355
3356
                         7410
5751
6002
   3761
3762
                                                   SKP
                                                   JMP I
                                                               XAERRO
   3763
                                                   IOF
   3764
3765
3766
                         1004
6201
6272
5530
                3357
3360
                                                  TAD
                                                                XXX
                                                                                                      /GET BACK ERROR PC
                                                                00
                3361
                                                   CIF
                                                                70
   3767
3768
               3362
3363
                                                   JMP I
                                                   JMP
                                                                                                      /SOMETHING WENT WRONG ON 
/ON REPORTING ERROR TO APT
                         5363
   3769
3779
3771
                3365
                         7571
                3366
3367
3370
   3772
3773
                         0215
   3774
                3371
3372
3373
3374
3375
   3775
3776
3777
                         3702
4100
3473
7700
                         2152
0240
   3779
   3781
                          3400
                                                   PAGE
   3782
3783
3784
3785
                                      PENTRY TO THIS POINT WAS CAUSED BY A PROGRAM INTERRUPT REQUEST
                3400
3401
3402
3403
3404
                         3300
7010
3301
6031
7410
5576
                                      PI.
                                                   DCA XAC
   3786
3787
                                                   DCA XLINK
                                                                            /SAVE (AC) AND (LINK)
                                                   KSF
   3788
                                                   SKP
   3788
3789
3790
3791
3792
3793
                                                   JMP I
                                                              XXKCC /IGNORE KEYBOARD IRQ
                3406
                         6041
                                      ISF
JMP PICLSK
/IF THIS TELEPRINTER FLAG IS EXPECTED (TTYBUSY) = 1
/THEN "JMP XTCF"
/IF NOT THEN "JMP PIEXIT"
                3407
                         5215
   3794
3795
                        1171
7740
5777
                                                  TAD TTYBUSY
SMA SZA CLA
JMP XTCF
TCF
   3796
                3410
   3797
3798
3799
               3411
3412
3413
                         6042
5273
                                                   JMP PIEXIT
   3800
                                      /IF (BUSY) = 1, THEN AN RXØ1 PI IS ALREADY BEING PROCESSED
                                      /IF (GOBIT) = 0, THEN THIS DISKETTE IRQ IS UNEXPECTED
   3803
   3804
   3805
3806
                                      /DISABLE RX01 INTERRUPT
                                       .
/READ RXØ1 STATUS REGISTER
   3808
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                                           PAGE 1-73
                                                                                                                                                                                                   SEQ 0108
                                     PICLSK, TAD BUSY
   3809
  381∂
3811
               3416
3417
                        7640
5273
2104
                                                  SZA CLA
JMP PIEXIT
   3812
               3420
                                                  ISZ BUSY
   3813
3814
3815
                                      REFRESH PROGRAM LOCATION " FORCE " BECAUSE THIS IS [NOT] A FORCED TYPEOUT
                                      /IT MAY HOWEVER BE AN RX-ERROR TYPEOUT
  3816
3817
3818
               3421 3776*
                                                  DCA FORCE
   3819
               3422 6001
                                                  ION
                                      SPECIAL PROGRAMMING NOTE:
   3821
   3822
3823
                                     / THE FOLLOWING INSTRUCTION IMMEDIATELY AFTER THE PREVIOUS " ION " / MUST BE THE IOT TO SKIP ON THE RX DONE FLAG (67X5) / AND NOT THE PSEUDO INSTRUCTION " SDN " WHICH "JMS XSDN" / BECAUSE THE PROGRAM WILL [HANG]
   3824
3825
   3826
   3827
                        6755
5266
1165
7650
5775
4447
               3423
3424
3425
3426
3427
3430
                                      K67X5B, 6755
                                                  JMP UNKNOWN
TAD GOBIT
SNA CLA
JMP SDNUNEXPECTED
   3830
   3832
3833
                                                  INTR
                                                                                        /CLEAR RX01 INTERRUPT ENABLE
   3834
3835
3836
               3431
3432
                       4442
0125
                                                  XDRIN
                                     XDPIN
AND K377
DCA ASTATUS
JIF THE RETURN IS TO "AUTOOK" THEN THIS PI IS FROM THE AUTOSCAN AFTER
/[KEY] INIT - THEREFORE DELETED DATA MAY BE SET (OK FOR NOW)
   3837
               3433
   3838
3839
  3840
3841
3842
               3434
3435
                        1774°
1373
7650
                                                  TAD RETURN
TAD (-JMPAUTOOK)
SNA CLA
JMP DDIGNORE
               3436
3437
                        5256
   3845
                                     THE COMMANDS FILL BUFFER AND EMPTY BUFFER SHOULD NOT ATTRACT DELETED DATA
   3848
                                                  TAD K16
AND COMMAND
               3440
               3440
3441
3442
3443
3444
3445
3446
3447
                        1121
0105
7440
7112
7640
7301
0172
7010
1372
                                                  SZA
CLL RTR
SZA CLA
CLL CLA IAC
AND STESTP
RAR
                                                                                        /SKIP IF FILL BUFFER (Ø)
  3851
  3852
3853
3854
                                                                                        /SKIP IF EMPTY BUFFER (2)
   3855
                                                                                        /PUT TO LINK
  3856
3857
                                                  TAD (1991
                                                                                        / A STATUS D.D. MASK
   3858
3859
                                     /IF (L) = 0 AND (AC) = 0, 0,K. - NO D.D. MARK
   3861
                                     /IF (L) = \theta AND (AC) > \theta (=100), UNEXPECTED D.D.
```

/IF (L) = 1 AND (AC) = 0, D.D. MARK EXPECTED DIDN'T OCCUR

```
SEU 0109
```

SEQ 0110

```
/RX8 DATA RELIABILITY/EXERCISER -DIFXB-D
                                                                        PAL10 V142A 9-JUN-76
                                                                                                                         16:55 PAGE 1-74
                                    /IF (L) = 1 AND (AC) > 0 (=100), O.K. - D.D. MARK OCCURED
  3866
                      7430
7640
7440
5771
4445
5261
  3867
3868
                                                                                    / (L) = 1 / (L) = 0, OR (L) = 1 AND (AC) > 0 / (L) = 0 AND (AC) > 0 (=100) , OR (L) = 1 AND (AC) = \nu
              3453
3454
3455
                                                SZA CLA
                                                SZA
JMP DDERROR
  3869
   3870
3871
              3456
3457
                                    DDIGNORE, SER
JMP VI
                                                                                     /RXØ1 OK - RETURN TO INLINE CODE
                                                JMP VERIFY
JMP RXERROR
   3872
   3873
3874
                       5770
                                    VERIFY THAT THE CONTENTS OF THE A-STATUS REGISTER = 0
   3875
3876
                                    /WHEN NO RXØ1 ERROR FLAG EXISTS
   3877
   3878
3879
                                    /NOTE:
   3880
                                    THE A-STATUS MAY = 200 (IF ENTRY TO HERE IS FROM THE AUTO SCAN AT "AUTO"
   3882
                                     /MASK OUT BITS 4 (DRIVE READY); AND 5 (DELETED DATA), AND 9 (INIT DONE)
   3883
3884
              3461 1141
3462 0367
3463 7640
3464 5766°
3465 5765°
                                     VERIFY, TAD ASTATUS
   3885
                                                AND (73)
SZA CLA
JMP NOSER
JMP OKRETURN
   3886
3887
   3888
   3889
3890
3891
                                     /AN UNKNOWN PROGRAM INTERRUPT OCCURED
   3892
3893
                                                                                     /ERROR PC.
/REPORT ERROR TO APT IF REQUIRED.
               3466
3467
347Ø
                       1364
4427
4463
                                                           (UNKNOWN
                                     UNKNOWN, TAD
                                                AERROR
PRINT
   3894
   3895
3896
3897
                        6327
3104
1301
7104
1300
               3471
3472
3473
                                                 MUNKNOWN
                                    PIEXIT, TAD XLINK
CLL RAL
TAD XAC
   3898
3899
               3474
3475
   3900
   3901
3902
               3476
3477
                        6001
5400
                                                 ION
                                                 JMP I Ø
                                    XAC, Ø
XLINK, Ø
/ " LOG ERRORS " (IF ANY)
               3500 0000
3501 0000
    1903
    3906
                                     /
/FORM: LOG; XERROR
   3907
3908
3909
3910
                                     /WHERE XERROR=
   3911
3912
3913
                                      /WERRORS
                                                                                      (RIRETRY)
                                     /RERRORS
/DATAERRORS
                                                                                      (R2RETRY)
    3914
3915
3916
                                     /DNSERRORS
                                     /SNDERRORS
                                                                                      (SRETRY)
                                     /PERRORS
                                                                                      (PRETRY)
    3918
/PX6 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                        PAL10
                                                                                    V142A 9-JUN-76
                                                                                                                         16:55
                                                                                                                                     PAGE 1-75
                                    /IF (RETRY) = 0
/IF (RETRY) < -12
/IF (RETRY) = -12
                                                                        ; LOG "UNRECOVERABLE" (HARD) ERROR
; LOG "RECOVERABLE" (SOFT) ERROR
   3920
   3921
3922
                                                                         , NO ERROR TO LOG
   3923
                                     PROGRAMMING NOTE: ANY "XERROR" IS RESTRICTED TO A MAGNITUDE OF 4095 DECIMAL
   3925
   3926
3927
3928
               3502 3502
3503 1702
                                    XLOG,
                                                TAD I XLOG
                                                                                     ADDRESS OF LOG
                                                TAD (-WERRORS)
CLL RAR
TAD (RIRETRY)
DCA LSBX1
TAD I LSBX1
   3929
3930
               3504
3505
                       1363
                                                                                     /RIGHT JUSTIFIED 1 PLACE
   3931
3932
3933
               3506
3507
3510
                       1362
3327
1727
                                                                                     /CONTAINS ADDRESS OF X-RETRY COUNTER /AC CONTAINS CONTENTS OF THAT X-RETRY COUNTER
   3934
3935
3936
               3511
3512
3513
                       7450
5320
7041
                                                SNA
JMP UNRECOVERABLE
                                                                                     /UNRECOVERABLE ERROR EXISTS
                                                CIA
   3937
3938
3939
                       1134
7450
5354
               3514
3515
                                                 TAD KRETRY
                                    TAD KRETRY
SNA
JMP LOGGED

/ DCA TTRETRY
CLA SKP
UNRECOVERABLE, TAD K16
TAD I XLOG
TAD UNITZ
DCA LSBX1
               3516
                                                                                     /NO ERROR EXISTS OR PREVIOUSLY EXISTED
   3940
                                                                                     / # OF RETRY RECOVERED AT
   3941
3942
               3517
               3520
3521
3522
3523
3524
                       1121
1702
1761
3327
2727
                                                                                     / UNRECOVERABLE OFFSET
                                                                                     / TO OBTAIN " XERROR '
/UNIT OFFSET
/TO WORK FOR INDEX
   3943
   3944
3945
3946
                                                ISZ I LSBX1
JMP .+4
LOCK
   3947
3948
               3525
3526
                        5331
4461
   3949
3950
               3527
                        0000
                                    LSBX1.
                        Ø113
                                                 K7777
   3951
   3952
                                     AN ERROR HAS OCCURED THIS PASS
   3953
3954
                       7330
3132
1302
4427
                                                STL CLA RAR
DCA PASSINPROGRESS
TAD XLOG
AERROR
               3531
   3955
3956
3957
               3532
3533
3534
                                                                                                 /POINTS TO TYPE OF ERROR.
   3958
3959
                                     /LOG TRACK ACCESS FREQUENCY ERROR (ANY ERROR) PER DRIVE PER TRACK
                                     //IF A "PARITY ERROR" DO NOT LOG TAFE
   3960
   3961
3962
                                     // TAD I XLOG; TAD (-PERRORS); SNA CLA; JMP LOGGED
/LOG TRACK ACCESS FREQUENCY ERROR (ANY ERROR) PER DRIVE PER TRACK
   3963
   3964
3965
                                                 TAD UNITZ
                                                CMA
DCA LSBX2
TAD (TAFE1-TAFE0)
ISZ LSBX2
   3966
3967
   3968
                                                                                      /FOR DISKETTE UNIT OFFSET
```

/ Ø OR 1

3969 3970

3971 3972 3973

3535

3536 3537

1761 ° 7640 1360

JMP .-2 TAD UNITZ

SZA CLA TAD (TAFE1-TAFER)

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                 PAL10 V142A 9-JUN-76
                                                                                                               16:55 PAGE 1-76
                                                                                                                                                                           SEQ 0111
   3974
                                             TAD (TAFE1-TAFEM)
                                             14D TARGET
   3975
              3541
                      1144
              3542
3543
3544
3545
                     1357
3347
2747
   3976
                                            1AD (TAFE0-TAFE1+TAFE)
DCA LSBX2
   1978
                                            ISZ I LSBX2
   3979
                     5351
4461
                                                  HARDP
             3546
3547
3550
                                            LOCK
                      0000
0113
   3981
                                 LSHX2,
                                            и
К7777
   3982
   3984
3985
                                 /IF THIS IS A HARD PARITY ERROR THEN RESTART THE PROGRAM
   3986
3987
                                 /HARDP, TAD I XLOG; TAD ("PERRORS); SZA CLA; JMP LOGGED
                     1157
7650
5756
2302
5702
                                 HARDP, TAU PRETRY
SNA CLA
   3988
              3552
              3553
3554
3555
   3989
3998
                                 JMP RS
LOGGED, 1SZ XLOG
   3991
                                            JMP I XLOG
  3992
3993
3994
              3556
3557
                      2237
6732
              3560
                      0115
   3995
3996
              3562
                      Ø151
   3997
              3563
                      6477
   3998
              3564
3565
                      3466
                      3602
             3566
3567
3570
   4000
                      1306
                      3642
   4602
   4003
              3571
                      3616
             3571
3572
3573
3574
3575
3576
                      0100
7514
   4005
   4006
                     3600
1304
   4408
                      3605
   4009
                      3325
3600
                                 PAGE /THE CONTENTS OF RETURN ARE SETUP WITHIN THE SUBROUTINES "LCD-A" AND "LCD-B"
   4010
   4011
4012
                                 /TO REPRESENT THE RETURN ADDRESS OF THE INLINE TESTING
   4013
   4014
4015
             3600
                    BURU
                                 RETURN, Ø
   4416
  4017
4018
4019
                     2200
                                 ERETURN, ISZ RETURN
                                                                                         /INCREMENT FOR ERROR RETURN ADDRESS
                                 /ENTRY TO HERE FROM PI SERVICE
   4020
   4021
                                 /NO RXØ1 ERROR FLAG EXISTS
             3602 3104
3603 4777°
3604 540
   4022
   4023
                                 OKRETURN, DCA BUSY
JMS XTICK
JMP I RETURN
   4024
4025
                                                                                        /NOTIFY APT IF NEED BE.
   4026
                                 PENTRY TO HERE MAY HAVE BEEN FROM:
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                  PAL10 V142A 9-JUN-76
                                                                                                               16:55 PAGE 1-77
                                                                                                                                                                           SEG 0112
                                 / (1)
                                                       - LOAD ADDRESSES 200, OR 201
                                            XLS
   4029
  4030
4031
                                                       - UNEXPECTED DONE FLAG / NO ERROR FLAG
                                                       . THEN RS (RESTART)
   4032
  4033
4034
                                 / (3)
                                           COMPARE - DATA NO STATUS ERROR
   4035
                                 / (4)
                                            EMPTYOK - SUMCHECK ERROR W/O DATA COMPARE ERROR OR CRC ERROR
   4037
                                 / (5)
  4038
4039
                                 / (6)
                                            HUNGUP - DEVICE TEST IS HUNG AT PC:
  4040
  4041
4042
4043
4044
4045
4046
                    0000
2104
5242
                                 FORCE,
             3607
                                            JMP RXERROR
                                 XFORCE, STA
TAD BUSY
DCA BUSY
JMP I FORCE
DTYPE, MEDDDIDNOT
MUDDDID
             3610
3611
3612
                     7240
1104
3104
  4047
4048
4049
             3613
                     5645
6272
             3614
  4050
4051
                                 /A DISKETTE DELETED DATA MALFUNCTION HAS BEEN DETECTED.
  4052
   4053
                                 /
/ IF (AC) = 0 - EXPECTED D.D. DIDN'T OCCUR
   4054
   4055
  4056
4057
                                 / / IF (AC) = 100 - UNEXPEDTED D.D. OCCURED
   4058
                     7640
7001
3776
                                 DDERROR, SZA CLA
IAC
DCA DMTYPE
  4059
4060
             3617
   4061
             3620
                                            DCA DMTYPE
TAD DMTYPE
SZA CLA
TAD (UDCODES-DCODES)
TAD UNITZ
TAD (DCODES)
DCA DDCODE
             3621
3622
3623
3624
3625
3626
                     1776,
7640,
1375,
1774,
1373,
3232
  4062
4063
  4064
  4065
  4067
             3627
3630
                     2632
5234
                                            ISZ I DDCODE
JMP .+4
   4068
  4069
             3631
3632
                     4461
0000
0113
  4070
                                            LOCK
  4071
                                 DDCODE,
                                           Ø
K7777
```

3640 3641

7000 1404

4076

TAD DMTYPE TAD (DTYPE) DCA XXX

SER NOP TAD I XXX

/A DISKETTE ERROR HAS BEEN DETECTED

/PROGRAMMING NOTE: "SER" TO CLEAR ACCOMPANYING ERROR FLAG (IF ANY)

SEG 0113

SEQ 0114

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                  V142A
                                                                                                                                  9-JUN-76
                                                                                                                                                                    16:55
                                                                                                                                                                                    PAGE 1-78
                                                                                                  PALIS
   4481
                                                 / (DMTYPE) NOT = 0 IF A D.D. ERPOR EXISTS
/ (DMTYPE) = 0 IF NO D.D. ERROR EXISTS
    4084
   4085
   4086
4087
                                                RXERROR, DCA DMTYPE
TAD COMMAND
DCA ECOMMAND
/FORMAT ERRORS (STATUS B WORD):
                   3642 3776°
3643 1105
3644 3163
   4088
4089
    4090
    4091
4092
                                                 , 40, 50, (60), 70, 100, 110, 120, 130, (140), 150, 160, 170, (200), (210)
    4093
                                                 /TECHNICAL NOTE:
    4095
                                                 /
/IF A PARITY ERROR OCCURS WHILE ATTEMPTING TO READ THE B-CODES, OR WHILE
/ATTEMPTING TO READ THE STATUS (COMMANDS #7, #5), THEN THE ORIGINAL ERROR
/WHICH BROUGHT THE PROGRAM TO THIS ERROR SERVICE ROUTINE WILL BE LOST
    4096
    4097
4098
    4099
4100
                                                 /SPECIAL PROGRAMMING NOTE:
                                                 /
// THIS IS A FORCED TYPEOUT FROM HUNGUP BECAUSE THE DEVICE TEST IS HUNG
//THEN THIS PROGRAM DOES NOT EVEN READ THE 8- AND C- STATUS
//BECAUSE THE PROGRAM COULD GET HUNG WITHIN AN INFINITE LOOP
//BECAUSE A " JMS FORCE " IS ISSUED WITHIN HUNGUP WHICH WAS ENTERED IF
//THE IOT'S SDN OR SER OR STR FAILED TO SKIP WITHIN AN ALLOTED PERIOD OF TIME
    4101
    4102
    41Ø3
41Ø4
    4105
    4107
                                                 /ALSO, AN ERROR MESSAGE IS FORCED EVEN IF SW 3 = 1
    4108
                                                 SAVEBSTATUS, TAD FORCE
TAD (-XHUNG)
SNA CLA
JMP ERROR

/...ALSO, IF ENTRY TO HERE IS FROM (3) / COMPARE / THEN DON'T READ THE
/ B-, OR C- STATUS BECAUSE THE FUNCTION EMPTY BUFFER HAS NOT YET COMPLETED
                    3645 1205
    4110
    4111
4112
4113
                    3646
3647
                               1371
7650
5352
                    3650
    4114
    4116
4117
                    3651
3652
3653
                                1205
1370
7650
                                                                 TAD FORCE
                                                                 TAD (-XCOMPARE)
SNA CLA
    4118
4119
    4120
4121
4122
                                5352
1121
4437
                    3654
3655
                                                                  JMP ERROR
                                                                 TAD K16
                    3656
                                4502
4446
4445
7000
4442
0125
3142
                    3657
3669
3661
    4123
4124
4125
4126
4127
4128
4129
4130
                                                                  WAIT
                                                                  SER
                                                 SER
NOP
XDRIN
AND K377
DCA BSTATUS
SAVECSTATUS, TAD UNIT
TAD K12
                     3662
3663
3664
                     3665
                                1767
                    3667
3670
3671
3672
    4131
    4132
4133
4134
                                4437
4502
4446
                                                                 LCD
NAIT
SDN
    4135
4136
4137
                     3673
3674
3675
                                4445
7000
4442
                                                                  SER
Nop
                                                                  XDRIN
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                                                                                     PAGE 1-79
                                                 AND K377
DCA CSTATUS
/LOG A AND B STATUS REGISTERS PER UNIT
   4139
    4141
                                                                 DCODES, EXPECTED D.D. DIDN'T OCCUR
UNEXPEDTED D.D. OCCURED
   4142
4143
    4144
```

```
AØ
ACRC
                                            ACODES,
4146
                                                        APAR
                                            BCODES,
                                                        BØ
B10
4149
                                                        B20
415ø
4151
                                                        B3Ø
                                                        B49
                                                        850
860
870
4152
4153
4154
4155
                                                        B160
4156
4157
                                                        B110
B120
4158
                                                        B130
4159
                                                        B140
B150
4161
                                                        B16Ø
B17Ø
4162
4163
4164
                                                        B200
                                       DCODES+25, B210
4165
4166
                                 THE BSTATUS SHOULD NEVER BE ANY OF THE FOLLOWING CODES
4167
4168
4169
4170
                                                        239
                                                        248
258
268
                                                        279
309
310
4173
                                                        326
336
346
350
4176
4177
4178
4180
                                                        360
                                            DCODE8+43, 370
4181
4182
           3700 7321
3701 7004
3702 0141
3703 7440
3704 5311
                                LOGCODES, CLL CML CLA IAC
4184
                                            RAL
AND ASTATUS
4185
4186
                                            SZA
4197
                                            JMP ANOTE
4188
                                 /IF ANY D.D. ERRORS HAVE BEEN PREVIOUSLY LOGGED
```

THEN DON'T GOTO "ANOTO"

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                   PAL10 V142A 9-JUN-76
                                                                                                                                           16:55
                                                                                                                                                       PAGE 1-RØ
                                                                                                                                                                                                                     SEQ 0115
                          1776*
7640
5326
   4193
                                                        TAD DMTYPE
                 3706
3707
                                                       SZA CLA
JMP LOGHSTATUS
JMP A0
   4195
   4196
4197
4198
                 3710
3711
3712
                           5316
7040
3324
                                                                                                 /A STATUS AT ERROR = 0
                                         ANOTO,
                                                       CMA
DCA ACODE
   4199
4200
4201
                 3713
3714
3715
                           1375
2324
5313
1774*
                                                        TAD (ACRC-ACODES)
ISZ ACODE
                                                       JMP .-2
TAD UNITZ
TAD (ACODES)
DCA ACODE
ISZ I ACODE
JMP LOGBSTATUS
   4202
4203
                 3716
3717
                           1366
                 3720
3721
3722
                           3324
2724
5326
   4204
4205
   4286
   4207
4208
4209
                           4461
0000
0113
                 3723
                                                       LOCK
                                         ACODE,
                                                       K7777
                 3725
   4210
4211
                                          /LOG B CODES
   4212
4213
4214
                                         LOGBSTATUS, TAD BSTATUS
CLL RAR
                 3726
3727
                          1142
7110
7012
7040
3344
1375
2344
5333
1774
1365
3344
2744
5346
   4215
4216
                 3730
3731
                                                       PTR
CMA
                 3732
3733
3734
3735
3736
3737
3740
                                                       DCA BCODE
TAD (B10-BCODES)
ISZ BCODE
   4217
4218
   4219
4220
                                                        JMP .+2
                                                       JMP .=2
TAD UNITZ
TAD (BCODES-B10+BCODES)
DCA BCODE
ISZ I BCODE
JMP .+4
   4221
4222
   4223
4224
4225
4226
                 3741
3742
3743
                           4461
                                                       LOCK
   4227
                                         BCODE,
                                                       K7777
   4226
                 3745
                           0113
   4229
4230
4231
                                         /PRINT AN ERROR MESSAGE IF AC SW 3 = 0
   4232
4233
4234
                 3746
3747
3750
                          4407
0014
7640
                                         LASSW3, LAS
AND K0400
SZA CLA
   4235
4236
4237
4238
                           5764
                                                       JMP NOPRINT
                                         /SAVE THE TIME AT THE DETECTION OF THE ERROR
   4239
4240
4241
                 3752
                         5763*
                                         ERROR, JMP ERROR2
                          4900
4535
7347
7341
2274
6115
                 3763
  4242
4243
4244
4245
4246
4247
                 3764
3765
3766
                 3767
3770
                         25/02
PX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                   PAL10
                                                                                               V142A
                                                                                                            9-JUN-76
                                                                                                                                          16:55 PAGE 1-81
                                                                                                                                                                                                                     SEQ 0116
  4248
  4249
4250
4251
                 3773
3774
3775
                          7335
                          8882
                          4533
5400
   4253
                 3777
                          4000
1777
7440
                                                       PAGE
  4254
                                        ERROR2, TAD
SZA
                                                                                                              /GET ERROR PC.
/IGNORE FIRST TIME ERROR FOR APT.
/REPORT IT TO APT IF NEED BE.
                                                                    FORCE
   4255
4256
                 4001
                 4002
                          4427
                                                       AERROR
  4257
4258
                                        TAD FIRSTERROR
SNA CLA
JMP NOHEADER
/THE FOLLOWING INFORMATION IS PRINTED FOR ALL ERRORS DETECTED
                          1110
                 4004
                          7650
  4259
4260
4261
                           5211
  4262
4263
                                         THE ERROR HEADER TEXT IS INHIBITED IF THE ERROR IS NOT THE FIRST ERROR EVER
  4264
                                                      CMND XDR
                                                                             CODE RST
                                                                                                     U:? START TARGET PARAMATERS PASS
  4265
4266
                                        PKINT

MEMEADER

JMP ONECRLF

/IF THIS IS -NOT- A FORCED TYPEOUT, AND IF THERE ARE NO DATA COMPARE

/ERRORS (COMPRERROR=0), THEN PRINT ONLY 1-CRLF

/BECAUSE
                4006 4463
4007 5652
  4267
  4268
4269
4270
                 4010 5225
  4271
4272
                                         /THIS ERROR MUST BE AN ERROR AT THE END OF THE EMPTY BUFFER DONE FLAG
/WHICH WOULD BE ASSOCIATED TO ANY PREVIOUS FORCED TYPEOUT OF DATA ERRORS
  4273
4274
4275
                                        NOHEADER, TAD FORCE
SNA CLA
JNP TWOCRLF
TAD COMPREROR
SZA CLA
JMP ONECRLF
/IF THIS IS A FORCED TYPEOUT FROM " XXINIT " THEN PRINT ONLY 1 CRLF
  4276
                          1777°
7650
5223
                4011
  4277
4278
4279
                4012
                4014
4015
                          1106
  4280
4281
                4016
                          5225
  4282
  4283
                                                      TAD FORCE
TAD (-XXINIT)
SNA CLA
                4017
                4020
4021
4022
                         1376
765Ø
5225
  4285
  4286
4287
                                                       JMP ONECRLE
                          4463
5611
4463
                4023
4024
                                        TWOCRLF, PRINT
  4288
  4289
4290
4291
                4025
                                        ONECRLF, PRINT
                4026
4027
                                                      JMS INITSWITCH
JMP .+5
  4292
4293
                          5235
                                        JMP .+5
/IF AN ERROR FROM THE RECAL, THEN PRINT [INIT] FOR THE COMMAND
                4030
  4294
4295
               4931
4032
4033
4034
4035
  4296
4297
                                                      TAD FORCE
                         1777
1376
7640
5240
4463
5712
                                                      TAD (-XXINIT)
SZA CLA
JMP .+4
```

PRINT

```
/RXB DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                                                              16:55 PAGE 1-82
                                                                                              PALID
                                                                                                              V142A
                                                                                                                             9-JUN-76
                                                                                                                                                                                                                                                   SEQ #117
                                                               JMP TAB5
JMS KEYSWITCH
JMP .+3
    4363
                    1040
                              5244
4473
    4304
                    4041
                                                               TY40CT
ECOMMAND
    4305
                    4043
                               0163
    4307
                               4472
                                               TAB5.
                                                               TAB
    4308
                    4045
                               0005
                                               /IF THE DEVICE TEST IS HUNG, /THEN THE A- B- AND C- STATUS ARE NOT APPLICABLE
    4309
4310
4311
    4312
4313
4314
4315
                   4046
4047
                                                               TAD FORCE
                               1777
                                                               TAD (-XHUNG)
SNA CLA
JMP DASHALL
                               1373
7650
                    4050
                               5263
4473
                                                               TY40CT
ASTATUS
    4316
                    4052
    4317
4318
4319
                    4053
4054
                              0141
4472
                    4055
                               0013
                                               13
/IF THIS IS A FORCED TYPEOUT FROM "COMPARE" THEN THE B-, AND C- STATUS
/ARE RESIDUAL FROM A PREVIOUS COMMAND IN ERROR AND ARE N/A HERE
/BECAUSE A DATA NO STATUS ERROR HAS BEEN DETECTED PRIOR TO THE COMPLETETION
/OF THE FUNCTION "EMPTY BUFFER"
    4320
    4321
4322
    4323
4324
4325
4326
                                               TAD FORCE
TAD (-XCOMPARE)
SZA CLA
JMP TYBSTATUS
JMP DASHBC

DASHALL, PRINT
MDASH
TAB
13
                    4Ø56
4Ø57
                              1777°
1372
7640
5276
5267
4463
6234
4472
0013
4463
6234
4472
    4327
                     4060
    4328
4329
4330
                    4961
4962
4963
    4331
4332
4333
                    4064
4065
4066
4067
4070
    4334
4335
4336
                                               DASHBC, PRINT
                                                                MDASH
TAB
                     4071
    4337
4338
4339
                                0021
4463
6234
                     4072
                                                                21
                                                                PRINT
                                                                MDASH
                     4074
                                                JMP TAB27
TYBSTATUS, TY40CT
BSTATUS
TAB
    4340
4341
4342
4343
4344
4345
4346
4347
4348
4349
                                5304
                     4077
                                Ø142
4472
                     4100
                    4101
                                ØØ21
4473
                                                                21
TY40CT
                    4103
4104
4105
4106
                                D143
4472
D027
4775
                                                                CSTATUS
                                                                TAB
27
JMS INITSWITCH
                                                TAB27,
    4350
4351
4352
                                                                 JMP .+6
JMS KEYSWITCH
JMP TAB41
                     4107
4119
                                5315
4774°
                     4111 5326
                                                 /IF (SSTART) = 0 THEN PRINT "HOME" BECAUSE A RECAL HAS TAKEN PLACE
    4353
4354
4355
                                                 THEREFORE THE ACTUATOR IS AT (SHOULD BE) TRACK 1 [HOME]
                     4112 1136
                                                                TAD SSTART
                                                                                                              V142A
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                              9-JUN-76
                                                                                                                                                               16155
                                                                                                                                                                             PAGE 1-83
                                                                                                                                                                                                                                                     SEQ Ø118
                                                                SZA CLA
                    4114
4115
4116
4117
                               5320
4463
5706
                                                                JMP .+4
PRINT
MHOME
    4358
    4359
4360
    4361
                               5326
                                                                JMP TAB41
                               5326
4473
0140
4472
0034
4473
                                                                TY40CT
                                                                START
    4363
                     4121
                    4122
4123
4124
4125
4126
    4364
                                                                TAB
                                                                34
TY40CT
    4366
                               0136
4472
0041
    4367
4368
                                                               SSTART
TAB
                                               TAB41,
    4369
                     4127
    4379
4371
4372
4373
4374
4375
                                                JMS INITSWITCH
JMP PHOME
/IF (FORCE) = THE ADDRESS "XXINIT" THEN ALSO PRINT (HOME) BECAUSE AN ERROR
/HAS OCCURED FROM THE RECAL WHEN THE TARGET WAS [HOME]
                               4775°
5346
                     4131
                    4132 1777°
4133 1376
4134 7650
                                                               TAD FORCE
TAD (-XXINIT)
SNA CLA
    4376
4377
4378
                                                JMP .+5
/IF (XSDN) * THE RETURN ADDRESS TO * SDNFIRST * THEN THE DEVICE TEST IS
/HUNG, THE STARTING TRACK IS (KEY) AND THE TARGET TRACK IS (HOME)
                                5342
    4379
4380
    4381
4382
4383
4384
                                                TAD XWAIT
TAD (=SDNFIRST)
SNA CLA
JMP +5
/IF (FORCE ) = THE RETURN ADDRESS TO * XLS * THEN THE TARGET TRACK
/IS (HOME) FROM A [KEY] INITIALIZE
                                1771°
1370
7650
                    4136
4137
                     4140
    4385
4386
     4367
    4387
4388
4389
4390
4391
4392
                    4142
4143
4144
4145
                               1777°
1367
7640
5351
                                                                TAD FORCE
                                                               TAD FORCE
TAD (-XLS)
SZA CLA
JMP .+4
PRINT
MHOME
                    4146
4147
4150
                                4463
5706
5357
    4393
4394
                                                PHOME,
    4395
4396
4397
4398
                                                                JMP TAB53
                    4151
4152
4153
                                4473
Ø144
4472
                                                                 TY4OCT
                                                                TARGET
TAB
    4399
4400
4401
                    4154
4155
4156
                                Ø046
4473
Ø137
                                                                46
TY40CT
                                                                STARGET
     4402
4403
4404
                                                /IF THIS IS A FORCED TYPEOUT FROM "XLS" THEN THE TEST PARAMATERS HAVEN'T /BEEN SELECTED FOR THIS $A200 YET AND THEST TEST PARAMATERS ARE RESIDUAL /FROM THE PREVIUS PASS (IF ANY) THEREFORE THE PROGRAM PRINTS [KEY]
     44Ø5
44Ø6
     4407
4408
                                                 /ONLY PRINT: " TEST PASS TIME " IF THIS ERROR IS THE FIRST ERROR THIS PASS
     4409
```

(EPASS) = 7777 MEANS FIRST ERROR THIS PASS

```
PAL10 V142A 9-JUN-76
                                                                                                                              16:55 PAGE 1-84
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                                                                                                    SEQ 0119
                                                  ISZ EPASS
                        5766°
5765°
                                                  JMP NOTICE
                                                  JMP ERRORS
  4414
               4163
  4415
4416
                        1127
4526
7545
               4160
4167
  4417
4418
4419
                        7551
2352
               4171
4172
4173
4174
4175
4176
  4420
4421
4422
                        6115
                        5327
                        1147
3346
   4424
                        3605
4200
   4425
                                     FAGE
/PROGRAM NUTE:
  4426
4427
4428
4429
                                      PENTRY TO THIS FAR IS IF [NOT] A FORCED TYPEOUT
  4430
4431
4432
                                      PRECAL IF DEFINITIVE ERROR CODE IS A SEEK ERROR
                                      /
/ (NOT CODES 140, 200, OR 210)
  4433
                                      /AC SW 6 = 1 TO INHIBIT (INIT) AT ERROR
  4435
4436
4437
                                     PECALIF, LAS
AND (SW6)
SZA CLA
JMP LASSW0
TAD BSTATUS
TAD (-140)
                        4407
0377
7640
                4201
               4202
4203
4204
4205
  4438
4449
4441
4442
4443
4444
4445
4446
4447
4448
4449
4451
                        5216
1142
1376
                        7450
5216
1116
7450
5216
                                                  SNA
JMP LASSWØ
TAD KM40
               4206
4207
                4210
                                                  SNA
JMP LASSWØ
               4212
4213
4214
4215
                         1115
7640
4450
4407
7710
4456
                                                  TAD KM10
SZA CLA
                                                  INIT
                                     LASSWØ, LAS
SPA CLA
                                      HLT16, HLT /AC SW 0 = 1 (HALT ON ERROR)
/IF THE DRIVE IS NOT READY THEN THIS IS A CONTROLLER FAILURE
   4452
               4220
   4452
4453
4454
4455
4456
4457
                                      /
/BECAUSE THIS DRIVE WAS READY AT ONE TIME
                                      /THEREFORE RESTART THE PROGRAM
   4458
4459
                                                  TAD CSTATUS
                4221
                       1143
                        1143
0375
7650
5774°
5773°
4226
               4222
4223
4224
4225
                                                  AND (200)
SNA CLA
JMP RS
   4460
   4462
4463
                                                   JMP ERETURN
                                      XLCD.
   4464
                4226
                         3105
                                                  DCA COMMAND
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                            PAL10
                                                                                         V142A
                                                                                                      9-JUN-76
                                                                                                                                16:55
                                                                                                                                            PAGE 1-85
                                                                                                                                                                                                    SEQ 0120
                4230 1105
4231 6751
4232 5626
                                                   TAD COMMAND
                                      K67X1, 6751

JMP I XLCD

/LOAD THE COMMAND FOR: FILL BUFFER, AND EMPTY BUFFER
/WITH THE PX01 INTERRUPT ENABLED
   4467
   4468
4469
4470
   4471
4472
4473
4474
                                      /FORM: (AC) IS COMMAND; LCDA; NORMAL RETURN; ERROR RETURN
                                      /PROGRAMMING NOTE:
                                      /
/THE UNIT BIT IS NOT REQUIRED FOR FILLING OR EMPTYING THE BUFFER
   4476
   4477
4478
                                       /IT IS REGUIRED BY THE PROGRAM FOR AN ERROR TYPEOUT (IF ANY)
   4479
4480
4481
               4233 4233
4234 4247
4235 1105
4236 4437
4237 1233
4240 3772°
4241 2233
4242 2233
4243 7201
                                      XLCDA,
                                                  JMS GETLCD
TAD COMMAND
LCD
TAD XLCDA
DCA RETURN
ISZ XLCDA
LSE XLCDA
CLA IAC
   4482
4483
4484
4485
4486
4487
4488
   4489
4490
4491
                4244
4245
                                                   INTR
ION
                                                   JMP I XLCDA
                4246
                         5633
   4492
4493
4494
                                     GETLCD, . TAD UNIT DCA COMMAND
   4495
4496
4497
                4247
4250
4251
                         4247
1771°
3105
                                                                                                         Ø OR 20
                                                                                                       /TEMPORARY STORAGE
   4498
                                       WHEN THE CONTENTS OF " GOBIT " ARE = 0 ; NO PROGRAM IRO IS EXPECTED FROM THE DISK
   4500
   4501
4502
4503
                4252
4253
4254
4255
4256
                         7301
7004
0172
7640
1370
                                                   CLL CLA IAC
                                                   RAL
AND STESTP
SZA CLA
TAD (100)
JMP I GETLCD
                                                                                                      /TESTP FOR 8/12 BIT MODE SELECTION
   4504
4505
4506
                                                                                                      / 100 FOR 8 BIT MODE SELECTION
                4257
                         5647
   4507
4508
4509
   4510
4511
                                       /LOAD THE COMMAND AND THE TRACK AND SECTOR ADDRESSES AND GO WITH INTERRUPT ENABLE :
                                       /FORM: (AC) IS COMMAND; LCDB; NORMAL RETURN; ERROR
   4512
    4513
                                      XLCDB,
   4514
                4260
                        4260
                4261 4247
4262 1105
4263 4437
                                                   JMS GETLCD
    4515
                                      LCDBL, TAD COMMAND
    4516
```

/LOAD THE TRACK AND SECTOR ADDRESSES FOR THE COMMANDS:

```
PAL10 V142A 9-JUN-76
                                                                                                                                                16:55 PAGE 1-86
                                                                                                                                                                                                                              SEQ 0121
/RX8 DATA PELIABILITY/EXERCISER -DIRXB-D
                                           /WRITE, OR WRITE DELETED DATA, OR READ SECTOR
   4523
4524
4525
4526
                                                         TAD (LCDBRETURN)
                 4264
4265
                            1367
3772°
1127
                                                         TAD (LEDBRETURN
DCA RETURN
TAD K7000
DCA XLCDBRETURN
CLA IAC
INTR
                  4266
                           3304
7201
4447
4444
5272
1137
4443
4444
5276
1144
    4527
                 4270
                                                                                                     /ENABLE RXØ1 INTERRUPT
                 4271
4272
4273
   4528
                                                         STR
JMP .-1
TAD STARGET
    4529
4530
                                                                                                     /SKIP ON TRANSFER REQUEST FLAG
                  4274
4275
4276
   4531
4532
                                                         XDROUT
STR
                                                                                      / SECTOR
   4533
4534
4535
                                                                                                     /SKIP ON TRANSFER REQUEST FLAG
                  4277
4300
4301
                                                         JMP .=1
TAD TARGET
XDROUT
                                                                                       / TRACK
   4536
4537
                                                          JMP XPI
                          5766
    4538
                                            PRETURN TO HERE IF ANY ERROR OCCURS (OF IF "DONE" FLAG OCCURS)
   4539
4540
4541
                                            /IF A PARITY ERROR OCCURS THEN RETRY TO LOAD THE COMMAND
    4542
4543
                                            /IF NOT A PARITY ERROR THEN THIS MUST BE THAT "DONE" FLAG I MENTIONED
    4544
                                                                                                                    / "JMP OTHERRORS" IF RETURN IS OK
                  4303 5322
4304 7000
4305 7301
                                            LCDBRETURN, JMP OTHERRORS
    4545
                                            XLCDBRETURN, NOP
CLL CLA IAC
RAL
    4546
4547
    4548
4549
4550
                  4306
4307
4310
                            7004
                                           RAL
AND ASTATUS
SNA CLA
JMP OTHERPORS
PARITY ERROR - RETRY
    4551
4552
4553
4554
4555
                  4311 5322
                           2157
7410
5322
4407
9015
7650
                  4312
4313
4314
4315
4316
4317
                                                          ISZ PRETRY
                                                           JMP OTHERRORS / HARD PARITY ERROR
    4556
    4557
4558
4559
                                                          LAS
                                                          AND KØ2ØØ
SNA CLA
JMP LCDBL
                   4320
                             5262
3157
    4560
4561
4562
4563
4564
4565
4566
4567
4568
                  4321
                                                          DCA PRETRY
                                            THESE ARE ALL OTHER ERRORS WHICH MAY OCCUR
                                            OTHERRORS, LOG
PERRORS /LOG
TAD (JMP OTHERRORS)
DCA XLCDERETURN
TAD (LCDBRETURN)
                            4462
7315
1365
3304
1367
7041
1772*
1260
                  4322
4323
4324
4325
                                                                                        /LOG HARD/SOFT P ERRORS (IF ANY)
    4569
4570
4571
4572
4573
                  4326
4327
4330
                                                           TAD RETURN
                                                          TAD XLCDB
                             3260
     4574
                                            /LOG TRACK ACCESS FREQUENCY (TAF) OR
     4575
                                                                                                                     9-JUN-76
                                                                                                                                                                                                                                 SEQ Ø122
                                                                                                                                                  16155
                                                                                                                                                              PAGE 1-87
  /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                        PAL10
                                                                                                      V142A
                                             /LOG " SAME " TRACK ACCESS FREQUENCY
                                             /IF (SSTART) NOT * 0 WHICH INDICATES A " HOME " ACTUATOR POSITION
     4579
     4580
4581
                                             /CAUSED BY AN INITIALIZE (MANUAL AT L/S OR A PROGRAM AUTOMATIC INIT)
     4582
     4583
4584
4585
4586
4587
                                             /LOG " SAME " TRACK ACCESS LOG IF (TARGET) = (START)
                   4333 1144
4334 7041
4335 1140
4336 7640
4337 5343
4340 1136
4341 7640
                                                            TAD TARGET
                                                           CIA
TAD START
SZA CLA
JMP LOGTAF
                    4334
4335
4336
4337
4340
4341
4342
4344
4345
4346
4351
4352
     4588
4589
4590
                                            JMP LOGTAF
TAD SSTART
SZA CLA
JMP LOGSAME
LOGTAF, TAD TARGET
CLL RAL
TAD (TAF)
JMP XLOGCOMMON
LOGSAME, TAD TARGET
CLL RAL
TAD (SAME)
XLOGCOMMON, JMS LOGCOMMON
JMP I XLODB
     4591
4592
4593
4594
4595
                               5347
                              5347
1144
7104
1364
5352
1144
7104
1363
4762°
     4597
4598
4599
      4600
                    4353
4362
4363
      4601
4602
                               5660
4400
      4603
4604
4605
                               6615
                    4364
4365
4366
                              6363
322
9676
4303
Ø100
2274
3600
3601
2237
Ø200
7640
6040
4400
      4606
4607
                    4367
4370
      4608
      4609
4610
4611
                    4371
4372
                    4373
4374
4375
      4612
4613
      4614
4615
                                              PAGE
/LOGCOMMON IS A DOUBLE PRECISION LOGGER
      4616
      4617
4618
                                              LOGCOMMON, DCA LOGL88
ISZ I LOGL88
JMP I LOGCOMMON
CLL CLA IAC
TAD LOGL8B
DCA LOGMSB
ISZ I LOGMSB
JMP I LOGCOMMON
LOCK
                     4400
                     4401
4402
4403
                               3212
2612
5600
      4619
4620
       4621
                     4404
4405
4406
4407
4410
       4622
                               7301
                               1212
3213
2613
5600
4461
9000
      4623
4624
4625
```

LOCK

LOGLSB,

```
JMP I LOGCOMMON
                               /ENABLE / DISABLE RX01 INTERRUPT ENABLE
  4633
                                   AC = 1 AT ENTRY TO ENABLE INTERRUPT
                               /FORM: (AC = 0, UR 1); INTR
  4636
                               / (GOBIT) = Ø, NO RXØ1 PI IS EXPECTED
  4639
                               / (GOBIT) = 1, AN RXW1 PI IS EXPECTED
  4648
4641
                               XINTR,
                   4415
3165
1165
6756
  4642
            4416
4417
4420
                                         DCA GOBIT
TAD GOBIT
6756
  4645
                               K67X6.
  4646
4647
                    7200
5615
                                         CLA
                                         JMP I XINTR
  4648
4649
                               /INITIALIZE (POWER CLEAR) THE RX01 SUBSYSTEM
  4650
                               XINIT,
             4423 4423
4424 6757
  4651
  4652
4653
                               AAA-11 . 6
K67X7, 6757
/THE LABLE " SDNSECOND " MUST RESIDE HERE BECAUSE OF REFERENCES WITHIN ERROR
  4654
4655
4656
                               WAIT
SDNSECOND, SDN
SER
JMP XXINIT
/IF AN ERROR HAS OCCURED FROM THE [INIT] THEN [HOME] WAS THE TARGET
                   4502
4446
4445
5232
             4425
4426
  4657
4658
4659
             4427
4430
                                THE LABLE "XXINIT" MUST RESIDE HERE BECAUSE OF REFERENCES WITHIN RX+ERROR
  4662
             4431 4777*
  4663
                                          JMS FORCE
                               XXINIT, DCA SSTART
JMP I XINIT
/STARTING ADDRESS 202
  4665
             4432 3136
4433 5623
  4667
4668
  4669
4670
                                THIS IS AN IMAGE DUMP OF ALL STATISTICAL INFORMATION ACCUMULATED BY ALL LOGS
                                THE FOLLOWING INFORMATION IS PRINTED ON THE TELEPRINTER
  4671
   4673
                                                    MAINDEC-8/E-
   4674
                                                    STATISTICAL REPORT
  4677
                                                    <IF A LOG-OVERFLOW THIS LINE IS TYPED>
                                                    <IF AN AUTOMATIC DUMP THIS LINE IS PRINTED>
  4680
   4681
                                                    <IF A PASS INCOMPLETE THIS LINE IS TYPED>
  4683
  4684
                                                    DRIVES SELECTED:
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                              PAL10 V142A 9-JUN-76
                                                                                                         16:55
                                                                                                                   PAGE 1-89
                                                                                                                                                                 SEQ 0124
  4686
                                                    TEST PARAMATER SELECTIONS:
                                                    OD ID FIRST LAST <VALUES PRINTED IF NON STANDARD>
  4688
  4689
                                                    RUN-TIME HOURS:MINUTES:SECONDS ( X COMPLETED PASSES)
X RESTARTS (OF WHICH X WERE AUTOMATIC RESTARTS)
X INTERUM STATISTICAL REPORTS
  4691
  4692
                                                    RECOVERABLE:
                                                        WRITE ERRORS
READ ERRORS
DATA ERRORS
DNS ERRORS
SND ERRORS
  4697
  4698
  4700
                                                        SEEK ERRORS
PARITY ERRORS
  4701
  4703
  4784
                                                    NONRECOVERABLE:
  4706
                                                        WRITE ERRORS
                                                        WRITE ERRORS

DATA ERRORS

DATA NO STATUS ERRORS

CRC STATUS NO DATA ERRORS
  4709
4710
                                                        SEEK ERRORS
PARITY ERRORS
                                                    SECTOR WRITES / READS
                                                    TOTAL A, B, D CODES
                                                    TRACK ACCESS SELF ALL-ERRORS (TOT PER DISK)
                                                    MAINDEC-08-
                                                    STATISTICAL REPORT
                                                    <IF A LOG-OVERFLOW THIS LINE IS TYPED>
                                                    <IF AN AUTOMATIC DUMP THIS LINE IS PRINTED>
  4726
4727
                                                    <IF A PASS INCOMPLETE THIS LINE IS TYPED>
  4728
4729
                                                    DRIVES SELECTED:
   4730
                                                    TEST PARAMATER SELECTIONS:
   4732
                                                    OD ID FIRST LAST «VALUES PRINTED IF NON STANDARD»
                                                    RUN-TIME HOURS; MINUTES: SECONDS ( X COMPLETED PASSES)
X RESTARTS (OF WHICH X WERE AUTOMATIC RESTARTS)
X INTERUM STATISTICAL REPORTS
  4735
```

```
16:55 PAGE 1-90
                                         SEU 0125
```

```
4741
   4742
4743
4744
                                          /PROGRAMMING NOTE:
                                         /
THIS SUBROUTINE MUST NOT USE TEMPOPARY STOPAGE LOCATIONS XXX OR YYY
/BECAUSE THEY ARE PEFFRENCED WITHIN SUBPOUTINE " XLOCK "
/WHICH CALLS THIS SUBROUTINE
   4745
4746
   4747
4748
   4749
4750
4751
4752
                                          /THESE LOGS ARE DUMPED AT EACH START 202 OR
                                         /AT A DISKETTE UNIT DELETION (IF THAT DELETION WAS NOT FROM THE /PROGRAM AUTOMATIC DISKETTE SCAN AT THE PROGRAMS START), OR
   4753
4754
   4755
4756
4757
                                          AT A STATISTICAL LOG COUNTER MAGNITUDE OVERFLOW
   4758
4759
                4434 4434
4435 4463
4436 6336
4437 4463
4440 6066
4441 1776*
4442 7650
4443 5246
4444 4463
4445 6077
   4760
                                         5202.
                                                       PRINT
   4761
4762
                                                        MIDENTIFICATION
   4763
4764
4765
                                                        PRINT
                                                       PRINT
MDUMP
TAD XLOCK
SNA CLA
JMP .+3
PRINT
   4766
   4767
4768
4769
                                                        MLOGOVERFLOW
                                          /IF THE RETURN ADDRESS VIA $202 IS TO PROGRAM LOCATION HLT20
/THEN THIS DUMP WAS MANUALLY INITIALIZED AND IS NOT AN INTERUM DUMP
   4770
4771
   4772
4773
4774
                          1234
1375
7650
                                                        TAD 5202
                 4446
4447
4450
4451
4452
4453
4454
4455
4456
4457
                                                       TAD S202
TAD (-HLT20)
SNA CLA
JMP .+4
ISZ IDUMP
PRINT
   4775
4776
4777
                           5255
2112
4463
   4778
                                                        PRINT
MINTERUM
TAD PASSINPROGRESS
SNA CLA
JMP ,+3
PRINT
MINCOMPLETE
                            6104
1132
7650
    4779
   4789
4781
   4782
4783
                           5262
4463
                            6115
1175
3774°
3773°
    4784
                 4461
4462
4463
4464
4465
4466
4467
4470
4471
                                                        TAD SUNITS
DCA UNITS
DCA WUNITS
PRINTDRIVESELECTED
    4785
   4786
4787
4788
                            4464
1774°
7650
    4789
4790
                                                        TAD UNITS
SNA CLA
JMP S202RETURN
                          5316
4772
    4791
    4793
    4794
                                                        TAD RESTARTS; SNA CLA; JMP .+7
/FXB DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                              V142A
                                                                                                               9-JUN-76
                                                                                                                                           16:55
                                                                                                                                                         PAGE 1-91
                                                                                                                                                                                                                       SEQ 0126
   4795
                                                        PRINT
   4796
4797
                 4473
                                                       MCRLF
MDESUMMARY
                           6832
   4798
4799
                                                                                                                /ONLY OCTAL VALUES WILL BE PRINTED /REPLACES TYBDEX.
                 4475
                                                        TY40CT
                                                        RESTARTS
   4800
                 4476
                           6352
   48Ø1
48Ø2
                 1477
4500
                           4463
                                                        PRINT
MRESTARTS
   4803
                                                        TAD ARESTARTS; SNA CLA; JMP .+7
                 4501
4502
                                                        MLEFTPAREN
   4805
                           6152
   4806
                 4503
                           4473
                                                        TY40CT
                                                                                                                /ONLY OCTAL VALUES WILL BE PRINTED / REPLACES TYSDEX.
   4807
   4808
                 4504
                           0103
                                                        ARESTARTS
   4809
4810
                 4505
4506
                           4463
6155
                                                       PRINT
MARESTARTS
                                                        TAD IDUMP; SNA CLA; JMP .+7
PRINT
   4811
4812
4813
4814
                 4507
                 4510
4511
                           5611
4473
                                                        MCRLF
TY40CT
                                                                                                                /ONLY OCTAL VALUES WILL BE PRINTED /REPLACES TYBDEX.
   4815
4816
                 4512 Ø112
                                                        IDUMP
                 4513 4463
4514 6163
    4817
                                                        PRINT
   4818
4819
                                                       MIDUMP
PRINT; MTREVOLUTION; TYBDEC; TOTALR; TOTALR+1
   4820
   4821
4822
                 4515 5771*
                                                        JMP XS202
                                          S202RETURN, JMP I S202
   4823
                 4516 5634
   4824
4825
   4826
                          4517
4467
4517
1717
2317
4474
5770*
   4827
4828
                 4517
                                          ASPECIALTYPEIT, .
                 4520
4521
4522
                                                       SETUP
XSPECIALTYPEIT
TAD I XSPECIALTYPEIT
ISZ XSPECIALTYPEIT
   4829
4830
4831
                 4523
                                                        TYPEIT
JMP THENEXIT
    4832
                 4524
   4833
4834
4835
   4836
4837
4838
                                           CLEAR " EPASS " TO PREVENT PREVIOUS " ISZ EPASS " FROM EVER OVERFLOWING
   4839
4840
                                          NOTICK, DCA EPASS
                 4526
                            3107
                 4527
4530
                            1333
7650
                                                        TAD DMTYPE
SNA CLA
    4841
    4842
    4843
4844
                 4531
4532
                            5334
4463
                                                        JMP .+3
PRINT
    4845
                  4533
                            0000
3110
                                                        DMTYPE. Ø
    4846
4847
4848
```

AC SW 5 = 1 TO INHIBIT THE RINGING OF THE BELL AT ERROR

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/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D

```
FAL10 V142A 9-JUN-76
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                                            16:55 PAGE 1-92
                                                                                                                                                                                               SEQ 0127
   4850
                4535
                       4427
                                     NOPRINT, LAS
               4536 Ø367
4537 7640
4540 5343
4541 4470
                                                 AND (SW5)
SZA CLA
   4851
  4852
4853
                                                  JMP
                                                  SPECIALTYPEIT
   4854
4855
4856
                                     /IF ENTRY WAS FROM A "JMS FORCE" THEN EXIT BY A "JMP I FORCE"
   4857
4858
               4543 1777°
4544 764%
4545 5766°
4546 5765°
                                                 TAD FORCE
                                                 SZA CLA
JMP XFORCE
JMP RECALIF
   4859
   4869
   4861
4862
   4863
                                                  /COMSOLE
                                    4864
               4547 4424
4550 4431
4551 7000
4552 7200
4553 3171
                                                                                       /ACTIVE CONSOLE??
/ROUTINE TO EXECUTE IF CONSOLE ACTIVE
   4865
  4866
4867
                                                 CHCNTL
  4868
4869
4870
                                                 CLA
                                                              TTYBUSY
                                                                                       /CLEAR THE FLAG
                                                                                       /LEAVE
                                                              PIEXIT
  4871
4872
                                                  4873
  4874
4875
4876
4877
4878
                                      PROUTINE TO ALLOW FOR THE PRINTING OF 8 OCTAL DIGITS.
               4555
4556
4557
4560
                                     PNTNOP, Ø
                       0000
                       1127
3761
5755
                                                  TAD
                                                              K7000
                                                 DCA I XISZDIG
JMP I PNTNOP
   4879
  4880
4881
4882
               4561
1564
4565
4566
4567
                       2731
3473
                                     XISZDIG,
                                                              152DIG-7
  4883
4884
                        4200
3610
                        0100
2152
4600
   4885
               4570
4571
   4886
   4887
               4572
                        3111
2271
2270
7574
   4888
               4573
4574
4575
  4889
489Ø
   4891
  4892
4893
               4576
4577
                        2400
3605
                                                 PAGE
                         4600
  4894
4895
                                                              RECOVERABLE:
   4896
  4897
4898
4899
                                                                   WRITE ERRORS
                                                                  READ ERRORS
DATA ERRORS
DNS ERRORS
SND ERRORS
SEEK ERRORS
   4900
4901
   4902
   4903
                                                                   PARITY ERRORS
/PXR DATA RELIABILITY/EXERCISER -DIRXR-D
                                                                          PAL10 V142A
                                                                                                   9-JIIN-76
                                                                                                                             16:55 PAGE 1-93
                                                                                                                                                                                                 SEQ 0128
   4904
   4905
                                                              NONRECOVERABLE:
  4906
                                                                   WRITE ERRORS
                                                                  WRITE ERRORS
READ ERRORS
DATA ERRORS
DATA NO STATUS ERRORS
CRC STATUS NO DATA ERRORS
SEEK ERRORS
   4908
   4910
  4911
4912
   4913
                                                                   PARITY ERRORS
  4914
4915
                                                              SECTOR WRITES / READS
  4916
4917
4918
4919
               4600 4463
4601 5611
                                     X5202, PRINT
                                                 MCRLF
                                     / (14 DECIMAL CATAGORIES OF ERROR INFORMATION)
   4920
4921
               4602 1377
4603 3012
4604 4455
4605 1776
                                                 TAD (-16)
DCA A12
GETUNIT
TAD UNITZ
                                     XLØ.
  4922
4923
   4924
  4925
4926
4927
                                     TAD (WERRORS-2)
DCA A10
/PROGRAMMING NOTE:
               4606
4607
                        1375
  4928
4929
4930
                                      /

"TYPEIT" INSTEAD OF "TYBDEX" BECAUSE "TYBDEX" USES "LSB"
   4931
4932
4933
               4610
4611
4612
                       4463
6042
1776°
                                                 PRINT
MUNIT
                                                 MUNIT
TAD UNITZ
TAD (260)
DCA .+2
SPECIALTYPEIT
   4934
4935
4936
               4613
4614
4615
                        1374
3216
447Ø
   4937
4938
4939
               4616
4617
4620
                       0260
4463
5612
                                                  260
PRINT
                                                  MCRLFS
   4940
4941
4942
               4621
4622
4623
                        2010
1410
7450
                                                  ISZ A10
TAD I A10
                                                 SNA
JMP X1DUMP
DCA XX
               4624
4625
4626
4627
4630
   4943
4944
4945
                        5254
3004
4473
                                                DCA XXX
TY40CT
XXX
TAB
                                                                                                    /TEMP STORAGE ONLY
   4946
4947
                        0004
4472
   4948
4949
4950
               4631
4632
4633
                                                 TAD K0007
TAD A12
SPA CLA
                        0005
1131
                         1012
   4951
4952
                4635
                        5241
                                                  JMP .+4
PRINT
MMUNRECOVERABLE
                       5241
4463
3101
7410
1131
1131
1012
   4953
4954
               4636
4637
   4955
4956
4957
4958
                4640
                                                  SKP
TAD KØØØ7
TAD KØØØ7
```

TAD A12

```
PAL10 V142A 9-JUN-76
/RX8 DATA PELIARILITY/EXERCISER -DIRX8-D
                                                                                                                                    16:55 PAGE 1-94
                                                                                                                                                                                                            SEQ 0129
                                                     TAD (TAD EPROPMESSAGES)
   4959
                                                     DCA .+1
TAD ERRORMESSAGES
                          3246
1300
   4960
                 4646
   4961
   4962
4963
                          3251
                                                     DCA ,+2
PRINT
                 1650
                          4463
   4964
4965
                 4651
4652
                          8888
                                                     PRINT
                          4463
                                                     MMERRORS
    4966
                 4653
                          6265
                          2012
5221
1776
7104
1372
3270
                                       XIDUMP, 1SZ A12
JMP XL
TAD UNITZ
   4967
4968
4969
4970
                4654
4655
4656
                 4657
                                                     CLL RAL
                                                     TAD (WRITES)
DCA WØ
   4971
                 4660
   4972
4973
                 4661
4662
                          1371
1270
3274
4463
6215
4475
                                                     TAD (READS-WRITES)
TAD WO
DCA RO
                4663
4664
4665
4666
4667
   4974
4975
4976
                                                     PRINT
MWRSRDS
TYBOCT
    4977
                                                                                                          /PRINT OCTAL ONLY /REPLACES TYBDEC
   4978
4979
4980
                          6353
                4670
                                        WØ,
   4981
4982
4983
                                                     PPINT
                                                     MSLASH
                 4672 6232
   4983
4984
4985
4986
4987
4988
                                                                                                           /REPLACES TYSDEC
                                                     TYBOCT
                                                                                                           /PRINT OCTAL ONLY /REPLACES TYBDEC
                 4673
                          6357
                                        RØ,
                                                     READS
                                       NO, READS
DONE
JMP XL0
JMP X3DUMP
ERRORMESSAGES, MMWRITE
MMREAD
                          4452
5202
5770
   4989
4990
4991
4992
4993
                 4676
4677
                          6235
6240
6243
6246
                 4700
                 4701
4702
                                                     MMDATA
MMDNS
                 4703
    4994
   4995
4996
4997
                                                     MANDERROR
                          6005
6256
                                                     MMPARITY
                          6261
                 4796
    4998
                                        /IF (WUNITS) = 0 ; ALL SELECTED DISKETTE DRIVES HAVE SEQUENCED
    5000
                 4707 4707
4710 1767°
4711 7650
4712 2307
4713 5707
    5001
                                        XDONE.
                                                     TAD WUNITS
SNA CLA
ISZ XDONE
JMP I XDONE
    5003
    5004
                                                                                / DONE ; (WUNITS) = #
    5006
   5007
5008
5009
                                        /LOG A AND B STATUS REGISTERS PER UNIT
                                                     DCODES, EXPECTED D.D. DIDN'T OCCUR
UNEXPEDTED D.D. OCCURED
    5010
5011
                                                     ACODES, AØ ACRC
    5012
                                                                   APAR
/PXR DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                          9-JUN-76
                                                                                                                                                                                                             SEQ 0130
   5014
                                                     BCODES, BØ
                                                                  B10
B20
    5015
5016
   5017
5018
                                                                   B30
B40
   5019
                                                                  B5Ø
   5020
5021
                                                                  B60
B70
                                                                  B100
B110
B120
    5022
   5023
5024
   5025
5026
5027
                                                                  B130
B140
B150
   5028
5029
5030
                                                                   B160
B170
                                                     DCODES+25. B200
   5031
5032
5033
                                         THE BSTATUS SHOULD NEVER BE ANY OF THE FOLLOWING CODES
   5034
5035
5036
                                                                   22Ø
23Ø
   5037
5038
5039
                                                                   240
250
260
   5040
5041
5042
                                                                   276
366
                                                                   310
   5043
5044
5045
                                                                   320
330
340
   5046
5047
5048
                                                                   350
                                                                   360
                                                     DCODES+44, 370
   5049
5050
                                        /
/ROUTINE TO DETERMINE IF ON APT
    5051
5052
5053
                 4714
4715
4716
4717
4720
                          1922
9322
7650
2314
5714
4000
                                                      TAD
                                                     TAD
AND
SNA CLA
ISZ
JMP I
4000
    5054
5055
5056
                                                                   K4000
                                                                   CHK22
    5057
5058
                                                                   CHK22
                                        K4000,
    5059
    5060
5061
                                        ROUTINE TO DEERMINE IF SINGLE DRIVE OR MULTIPLE DRIVE TESTING.
    5062
    5063
                 4723
4724
                         0000
                                         XDRVSL, Ø
                                                                   22
K0003
XXX
22
K0100
                                                     TAD
AND
DCA
TAD
AND
                           1022
0347
3004
    5064
                 4725
4726
    5065
    5066
                                                                                                           /DRIVE ISOLATED.
```

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                         PAL10 V142A 9-JUN-76
                                                                                                                                                    16:55 PAGE 1-96
                                                                                                                                                                                                                                   SEQ 0131
                                                            SNA CLA CLL
JMP AUTORESTART
                                                                                                                       /SINGLE DRIVE TESTING /NO. DO MAX IN SYSTEM.
     5009
                                                           JMP
TAD
                   4733
                              1004
     5071
                                                                           XXX
     5072
5073
                   4734
4735
4736
                              7010
7430
7130
                                                           RAP
                                                                                                                       /DRIVE 1 TO BE DONE
/NO. SET UP FOR DRIVE Ø
                                                           SZL
STL RAR
     5074
                   4737
4740
4741
4742
     5075
                              7010
                                                           RAR
                                                           DCA XXX
CLL CLL CML IAC
    5076
5077
                              7121
                                                                                                        /+3 COSTANT
                              7004
     507B
                   4743
4744
4745
4746
                                                                          XDRVSL
    5079
                                                           TAD
                                                                                                                      /UPDATE FOR RETURN
    5080
5081
                                                           DCA
TAD
                                                                           XDRVSL
XXX
                              3323
                                                                                                                       /RETURN WILL VALUE IN AC
                              1004
                                                                          XDRVSL
                                                           JMP I
    5082
                             5723
                                            K0003, 0003
                   4747 8683
4750 8188
    5084
    5085
                                             /
/ROUTINE TO TYPE 8 OCTAL DIGITS.
    5087
    5088
5089
5090
                                             /FORMAT TYBOCT; MSB(STARTING ADDRESS OF DOUBLE LOG TO BE PRINTED).
                                            XTYBOCT,
                              0000
    5091
5092
                   4752
4753
                              1751
3363
                                                           TAD I XTY80CT
DCA .+10
                                                          TAD I XTYBOCT IAC DCA
                                                                                                                       /GET STARTING ADDRESS
    5093
5094
5095
                   4754
4755
4756
                              1751
7001
3362
7344
3124
4473
7000
7000
2351
                                                                                                                       /SECOND ADDRESS
                                                          UCA .+4
CLL CLA CMA RAL
DCA XCNT
TY40CT
                  4757
4760
4761
4762
4763
4764
4765
     5096
    5097
5098
    5099
                                                                                                                       /REPLACED WITH POINTER TO BE
    5100
                                                           NOP
                                                                                                                       /PRINTED
                                                                          XTYBOCT
                                                                                                                       /UPDATE RETURN
    5102
                              5751
                                                           JMP I
                                                                          XTYSOCT
                                                                                                                       /EXIT
    5103
5104
                  4766
4767
4770
    5105
                             Ø247
2271
    5106
                             5000
                  4771
4772
4773
4774
4775
4776
4777
    5108
5109
5110
                             0004
6353
1300
    5111
5112
5113
5114
                             1300
1260
7277
2272
7762
                              5000
                                                           PAGE
   5115
                                                                          TOTAL A. B. D CODES
   5116
5117
                                                                          TRACK ACCESS SELF ALL-ERRORS (TOT PER DISK)
    5118
                                            X3DUMP, PRINT
MDUMPHEADER
TAD (TAF-1)
DCA A10
    5119
5120
                  5000
5001
5002
                             4463
6174
1377
    5121
/PX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                        PALIO
                                                                                                       V142A
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                                                                                                                                                                                                                                   SEQ 0132
                                                          DCA A11
TAD (-115)
DCA YDUMP
TAD I A10
   5124
                  5005
                            3011
                           1376
3367
1410
7450
1410
7650
   5125
5126
                  5006
5007
5010
                                                                                                       / 0-114 TRACKS
   5127
                                           XDUMP.
   5128
5129
5130
                  5011
5012
5013
                                                          SNA
TAD I A10
SNA CLA
                                                          SNA CLA
JMP XDUMPX
PRINT
MCRLF
TAD (115)
TAD YDUMP
DCA LSB
TY40CT
LSR
   5131
                  5014
5015
                            5317
4463
   5132
5133
                  5016
                            5611
   5134
5135
5136
                 5017
5020
5021
                            1375
1367
3167
4473
9167
4472
9996
1411
3167
1411
                 5022
5023
5024
   5137
                                                          LSB
TAB
   5139
   5140
5141
5142
5143
5144
5145
                 5025
5026
5027
                                                          6
TAD I A11
                                                          DCA LSB
TAD I A11
DCA MSB
                 5030
5031
5032
                            4475
                                                          TYBOCT
                                                                                                                      /PRINT OCTAL ONLY /REPLACES TYSDEC
   5146
5147
5148
                 5033
5034
                           0167
1374
1011
3010
                                                          LSB
                                                         LSB
TAD (SAME-TAF-2)
TAD A11
DCA A10
DCA A10
DCA A12
TAD I A10
SNA
TAD I A10
SNA
TAD I A10
  5149
5150
5151
                 5035
5036
5037
                            1010
1010
3012
1410
7450
1410
7650
5256
4472
  5152
5153
5154
                 5040
5041
5042
  5154
5155
5156
5157
5158
5159
                 5043
5044
                                                          SNA CLA
                 5045
5046
5047
                                                          JMP XXDUMPERRORS
                                                          TAB
                                                         TAB
17
TAD I A12
DCA LSB
TAD I A12
DCA MSB
                            0017
   5160
5161
                 5050
5051
                            1412
3167
                 5052
                            1412
   5162
  5163
5164
5165
                            317Ø
4475
                 5053
                 5054
                                                          TYBOCT
                                                                                                                      PRINT OCTAL ONLY
                                                                                                                     /REPLACES TYBDEC
  5166
5167
5168
5169
5170
                 5055
                 5056
5057
5060
                                           XXDUMPERRORS, TAD (TAFEØ-116)
TAD YDUMP
TAD (115)
                            1373
                            1367
                                          TAD (115)
DCA XA10
XDUMPLOOP, GETUNIT
TAD UNITZ
SZA CLA
TAD (TAFE1-TAFE0)
TAD (TAFE1-TAFE0)
TAD XA10
DCA A12
                            3003
4455
1772'
7640
1375
                 5261
  5171
                 5062
  5172
                 5063
  5173
5174
5175
                 5064
5065
5066
```

```
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                                                                                                                                               16:55
                                                                                                                                                            PAGE 1-98
                                                                                                                                                                                                                            SEQ #133
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                         TAD A12
DCA A10
TAD I A10
SNA CLA
                            3010
   5179
   5180
5181
                  5073
                 5074
5075
                            7650
5312
4472
                                                         JMP XNOERRORS
    5182
                                                         TAB
   5183
5184
                  5076
                                                                                                                   /ONLY OCTAL VALUES WILL BE PRINTED
                                                         TYAOCT
    5185
                  5100
                             4473
                                                                                                                   /REPLACES TYBDEX.
   5186
5187
                             2272
                                                         UNITZ
                  5101
                                                         PRINT
                            4463
6234
1412
    5188
5189
                  5102
5103
                                                         MDASH
TAD 1 A12
DCA X
TY40CT
XXX
PRINT
    5190
                  5104
5105
                                                                                                                   /TEMP STORAGE ONLY
                                                                       XXX
    5191
5192
                            1004
                             4473
    5193
5194
5195
                            0004
                  5107
                  5110
5111
5112
                             4463
5614
4452
                                          PRINT
MSPACE
XNOERORS, DONE
JMP XDUMPLOOP
TAD A11
DCA A10
JMP +3
XDUMPX, TAD A10
DCA A11
ISZ YDUMP
JMP XDUMP
PRINT
MCREFS
JMP S2022RETUR!
    5196
5197
                  5113
5114
                            5262
1011
    5198
    5199
                   5115
                             3010
                            5321
1010
3011
    5200
                  5116
5117
                  5120
5121
5122
    5202
5203
                            2367
5210
    5204
                   5123
5124
5125
5126
5127
5130
5131
    5205
5206
5207
                              4463
                                                          JMP S202RETURN
    5208
5209
5210
                                            XHALT,
                             5126
                                                          TAD TTYBUSY
                             1171
                                            SZA CLA
JMP .-2
/THE CONTENTS OF THE AC AT THE HLT CONTAIN THE CALLING ADDRESS
    5211
5212
5213
                            5327
                                                                                                                    /TEST FOR APT.
                             4500
5726
7240
                                                           CHEK22
     5214
5215
5216
                   5132
                                                                                                                     /IGNORE HALT.
                                                           JMP I XHALT
                                                           STA
                                                           TAD XHALT
     5217
5218
5219
                              1326
                                                           /********
                                                           /CONSOLE
     5220
5221
5222
5223
5224
5225
5226
                   5136
5137
5140
5141
5142
                            4424
4430
7410
7402
7200
5726
                                                           CHECKC8
CBINQU
SKP
7402
                                                                                                      /PRINT WAITING AND LOOK FOR CNTR CHAR /SKIP IF THE CONSOLE IS ACTIVE
                                                           CLA
JMP I XHALT
     5227
5228
5229
                                             PROGRAMMED SUBROUTINE TO BYTE SWAP THE CONTENTS OF THE AC
     5230
5231
                                             /THIS SUBROUTINE MAY ONLY BE CALLED FROM WITHIN SUBROUTINE " XPRINT "
     5232
                                                                                                                    9-JUN-76
                                                                                                                                                                PAGE 1-99
                                                                                                                                                                                                                               SEU 0134
  /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                        PAL10 V142A
                                             /OTHERWISM STRANGE AND UNFORGIVEABLE THINGS WILL OCCUR TO BLOW YOUR MIND
     5233
     5234
5235
                              5144
3147
7010
                                             XBSW.
                    5144
5145
5146
5147
                                                            DCA BSWAC
     5236
5237
5238
                                                           RAR
DCA BSWLINK
TAD KM6
                               3150
      5238
5239
5240
5241
5242
5243
5244
                              1114
3366
1147
7100
7510
7120
                    5159
5151
5152
                                                            DCA BSWRAL
TAD BSWAC
                    5153
5154
5155
                                                            CLL
                                                           SPA
      5244
5245
5246
5247
5248
5249
5250
                    5156
5157
5160
                              7004
2366
5353
                                                            RAI.
                                                            1SZ BSWRAL
                                                           JMP .-5
DCA BSWAC
TAD BSWLINK
CLL RAL
TAD BSWAC
                    5161
5162
5163
5164
5165
                               3147
1150
7104
1147
5744
7772
      5251
                                                            JMP I XBSW
      5252
      5253
5254
5255
                                              BSWRAL,
                                                            -6
                                              YDUMP,
                                                            0
      5256
5257
5258
      5259
5260
5261
                               4516
2272
6731
0230
0115
7663
                    5171
5172
                    5173
5174
5175
      5262
5263
      5264
      5265
       5266
                                6362
                                              PAGE
                                5200
      5267
5268
5269
                                              /ENTRY TO HERE FROM SUBROUTINES XSER, OR XSDN, OR XPI
                                              HUNGUP, ISZ BUSY
DCA HUNGPC
TAD KM40
DCA HANGER
      5270
5270
5271
5272
                     5200
5201
5202
                              2104
3303
1116
       5273
5274
5275
                               3111
                                              /IF THE PROGRAM IS HUNG BECAUSE IOT SDN FAILED TO SKIP FROM (KEY) INIT /AT THE START OF THIS PROGRAM, THEN MAYBE THE STANDARD OPERATING DEVICE CODE 670- SELECTED BY THIS PROGRAM IS NOT THE DEVICE CODE OF THE UNIT UNDER /
       5276
5277
       5278
                                               THE DONE FLAG SHOULD BE SET BY NOW FROM [KEY] INITIALIZE
        5280
                              1777°
1376
7640
5272
                                                             TAD XWAIT
TAD (-SDNFIRST)
SZA CLA
                                                                                                                      /RETURN ADDRESS FROM SUBROUTINE XSDN /ADDRESS FROM FIRST "SDN" EVER
       5281
5282
                     5204
5205
```

/DEVICE CODE ALREADY SELECTED

JMP TCTRLS

/A DEVICE CODE HAS NOT YET BEEN SELECTED

```
SEQ 0135
```

1357

NOTQ,

```
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
   5287
                                           THE DONE FLAG SHOULD BE SET BY NOW
   5289
                                           THIS ROUTINE WILL ASK FOR DEVICE CODES IF NOT SELLECTED
   5290
   5291
   5292
                                           CODE CHANGE FOR GETTING DEVICE CODES
   5293
5294
   5295
5296
                                           PENTER THE DEVICE CODE IN THE SIX MIDDLE BITS OF THE SWITCH REG.
   5297
   5298
5299
                            4463
5534
                                           DOACTIVE, PRINT
                                                                                                    /PRINT THE DEVICE CODE MESSAGE IS
                                                         MDEVICE
   5300
                 5211
                                                                                                    /ON ACTIVE CONSOLE
/ON ACTIVE CONSOLE DEVICE
/RETURN FROM SWITCH REG
                 5212
5213
5214
                            4424
4426
5217
   5301
5302
                                                         C8SWIT
                                                                       CKDEVICE
   5303
5304
                            4456
4407
0375
7450
1374
1373
                                                         HLT
                                                                                                                   /GET DEVICE CODE.
/MASK FOR THESE BITS ONLY
   5305
5306
                  5216
                                                                                      (0770
                                                                       AND
                 5217
5220
5221
                                           CKDEVICE.
                                                         SNA
    5307
                                                                                                                   /75 DEVICE CODE
                                                                        (750
(6005
    5308
                                                                                                    /ADD THE IOT INSTRUCTION /STORE IT
    5309
5310
                                                         TAD
                  5222
                            3224
6755
7410
                  5223
                                                         DCA
                                                                        ACTIVE
                  5224
5225
5226
                                           ACTIVE,
                                                                                      /NOT A DEVICE WITH THIS DEVICE CODE
/DEVICE IS THERE
/REASK DEVICE
                                                         SKP
    5312
                                                                        SDNOK
                                                          JMP
    5313
                                                                        DOACTIVE
    5314
                  5227
                            5210
                                            THE PROGRAM FOUND AN ACTIVE DEVICE CODE AND WILL
    5317
                                            SET THAT DEVICE CODE INTO ALL APPLICABLE IOT PROGRAM LOCATIONS
    5318
5319
5320
                                           SDNOK, TAD ACTIVE
AND (-7)
DCA A10
TAD (XDEVIC-1)
DCA A11
                             1224
                   5230
                  5231
5232
5233
                            0372
3010
1371
    5322
5323
    5324
5325
5326
5327
                  5234
5235
5236
                             3011
1411
7450
                                                         TAD I A11
SNA
JMP .+6
DCA XXX
TAD A10
DCA I XXX
ISZ A10
JMP .-7
TAD I XK67X2A
DCA K67X2B
TAD I K67X5A
DCA K67X5B
TAD I XK67X1
AND KM10
DCA LSB
TY40CT
                                                          TAD I A11
                  5237
5240
5241
                             5245
3004
     5328
     5329
                             1010
    5330
5331
5332
                   5242
5243
5244
5245
                             3404
2010
5235
1663
    5333
5334
5335
                   5246
5247
5250
                             3770°
1666
3767°
     5336
5337
                             1662
Ø115
3167
4473
                   5251
5252
     5338
     5339
5340
                   5253
5254
                                                          TY40CT
                             Ø167
     5341
                                                                                                                                                                                                                              SEQ 0136
                                                                                                                                                16:55
                                                                                                                                                              PAGE 1-101
                                                                                                                   9-JUN-76
                                                                                                     V142A
 /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                       PAL10
                                                          CLL CLA IAC
                            7321
                                                          TAD XWAIT
DCA XXX
JMP I XXX
                   5257
     5343
     5344
5345
5346
                             3004
                             5404
     5347
5348
5349
                                            /RX-DEVICE CODE TABLE
     5350
5351
                             4231
6523
0532
                                             XK67X1. K67X1
                   5262
                   5262
5263
5264
5265
5266
5267
                                            XK67X1, K67X2A
K67X2A, K67X2A
K67X4
     5352
     5353
5354
5355
5356
5357
                             0537
0544
4420
                                             K67X5A, K67X5
K67X6
                    5270
                              4424
                                                           K67X7
                              9999
                                             /IF THE PROGRAM IS HUNG BECAUSE THE OPERATOR TYPED A <CTRL>Q
/THEN THAT'S OK - NO SPECIAL REMINDER WILL BE PRINTED
     5358
5359
5360
5361
                                             TCTRLS, TAD TTYBUSY
SPA CLA
JMP PIEXIT
                   5272
5273
5274
5275
                             1171
7710
5766
4765
     5362
5363
5364
                                                                                        /OK
                                             JMSFORCE, JMS FORCE
      5365
5366
                                              THE LABLE "XHUNG" MUST RESIDE HERE BECAUSE OF REFERENCES MADE WITHIN "FORCE"
      5367
                             4463
5635
4473
5303
5764
     5368
5369
5370
                    5276
5277
                                              XHUNG. PRINT
                                                           MHUNGPC
TY40CT
HUNGPC
                    5300
      5371
5372
                    5301
5302
                                                           JMP RS
                                             HUNGPC, 0
/IF THE TELETYPE IS "BUSY" (TTYBUSY = X), AND IF A KEYBOARD FLAG,
/THEN STOP THE TELETYPE OUTPUTS IF THE KRB BUFFER STATUS IS A <CTRL>S
/RESUME TELETYPE OUTPUTS IF THE KRB BUFFER STATUC IS A <CTRL>Q
/ (AND IF THE PROGRAM IS ALREADY STOPPED FROM A PREVIOUS <CTRL>S )
      5373
                    5303
                               0000
      5374
5375
5376
5377
5378
5379
                                              XKCC, KRB
                    5304
5305
5306
5307
                               6036
                                                           AND (177)
AND (177)
TAD (-21)
      5380
5381
5382
                               0363
4762
0363
                                                                          (177
C8TST2
                                                                                                                      SET UP CHAR IN FLD 1 AND MAKE IT 8 BITS
                                                                                                                      / <CTRL>Q
      5383
5384
5385
                    531Ø
5311
                               1361
7440
                     5312
                               5321
      5386
5387
5388
5389
                                              /THE KRB BUFFER STATIC IS A <CTRL>Q /THEREFORE, RESUME TTY OUTPUTS IF A PREVIOUS <CTRL>S HAD OCCURED
       5390
5391
                     5313
5314
5315
                               1171
7700
5766*
                                                             TAD TTYBUSY
                                                            TAD TTYBUSY
SMA CLA
JMP PIEXIT
CLL CLA IAC
DCA TTYBUSY
JMP XTCF
TAD (-2)
                                                                                                                      /NO PREVIOUS <CTRL>5
       5392
       5393
5394
                     5316
5317
5320
                                7301
3171
5760
```

/RESUME TELETYPE OUTPUTS

```
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                                                                                         PALIO
                                                                                                       V142A
                                                                                                                                                      16:55 PAGE 1-192
/RXB DATA RELIABILITY/EXEPCISER -DIPXB-D
                                                                                                                                                                                                                                       SEG 0137
   5 197
                                                            SZA CLA
                  5322 7640
   5398
                                                            /CONSOLE
   5399
5400
5401
                                                            /***********
                                                            JMP
                                                                          COTEST
                                                                                                                         /TEST THE REST OF THE CHARACTERS
   5402
                  5323 5756
    5403
                                             /****************

STL CLA RAR

DCA TYBUSY

JMP PIEXIT

/IF (FORCE) = THE ADDRESS OF "XLS" THEN THIS ERROR IS FROM [KEY]

/INITIALIZE - THE STARTING TRACK WAS X [KEY], AND THE TARGET WAS [HOME]
   5404
5405
5406
5407
                  5324
5325
5326
                           3171
5766*
   5408
5409
5410
5411
5412
                                             /
KEYSWITCH,
                  5327
5330
5331
5332
5333
                            5327
1765'
1355
7650
                                                            TAD FORCE
TAD (-XLS)
SNA CLA
   5413
5414
5415
5416
                                             JMP +-5

JOR IF THIS FORCE WAS FROM "SUMPIRST" THEN THE DEVICE TEST IS HUNG

JAND THE START WAS (KEY) AND THE TARGET WAS (HOME)
   5418
5419
                            1777*
1376
7640
5343
4463
5715
7410
                                                            TAD XWAIT
                  5334
5335
5336
5337
                                                            TAD (-SDNFIRST)
SZA CLA
JMP .+4
PRINT
MKEY
    5420
   5421
5422
   5422
5423
5424
5425
5426
5427
5428
5429
                  5340
5341
5342
5343
                                             SKP
ISZ KEYSWITCH
JMP I KEYSWITCH
/ROUTINE TO GET DEVICE CODE TO BE USED WITH APT.
                             2327
5727
                  5344
                 5345 1127
5346 3753
5347 1754°
5350 3777°
                                             DEVCDE, TAD
                                                            DCA I
TAD
DCA
                                                                                                                         /NOP TEST PARAM.
/GET RETURN ADDRESS
/STORE FOR RETURN TO PROPER PLACE.
                                                                           SWINOP
   5431
5432
5433
5433
54435
55433
55443
55444
55444
55444
55444
55444
55444
55444
                                                                           XAPT8
XWAIT
                                                                                                                                        /GET DEVICE CODE TO USE /ESTABLISH DEVICE CODES.
                  5352
5353
5354
5355
5356
5357
                             5217
Ø412
Ø343
7545
4547
7776
                                                                           CKDEVICE
                                                            JMP
                                             SWINOP, HLT2
                             3325
7757
                  5361
5362
5363
5364
                             3161
8177
                             2237
                  5365
5366
5367
                             3605
3473
   5449
5450
                             3423
    5451
                  5371
                             5261
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                          PALIG
                                                                                                         V142A 9-JUN-76
                                                                                                                                                       16:55 PAGE 1-103
                                                                                                                                                                                                                                        SEQ 0138
    5452
                  5372
                             7771
                  5373 6005
5374 0750
5375 0770
   5453
5454
   5455
   5456
5457
                             7551
2352
                              5400
                                             PAGE
    5458
                                             PROUTINE TO NOTIFY OF OF RUNNING IF NEED BE DONE
    5459
   5460
5461
5462
5463
5464
                  5400
5401
5402
5403
                              0000
4500
                                             XTICK,
                                                            0
CHEK22
                             7410
5600
                                                            SKP
JMP I
                                                                                                                         /ON APT.
                                                                           XTICK
    5465
5466
5467
                   5404
                              2216
                                                            ISZ
                                                                           CLKCNT
                                                            JMP I
TAD
DCA
                  5405
5406
5407
5410
5411
5412
                              5600
1217
3216
                                                                           XTICK
COUNT
    5468
5469
547Ø
5471
                                                                                                                         /INIT CLOCK COUNTER
                                                                           CLKCNT
                              6002
6201
6272
                                                            IOF
CDF
CIF
                                                                           00
70
    5472
5473
5474
5475
                              4615
5600
                                                            JMS I
JMP I
                                                                           K6500
XTICK
                                                                                                                         /NOTIFY APT-8
                   5414
                                                                                                                         /EXIT.
                  5415
5416
5417
                            6599
7799
7799
                                                            6500
-100
-100
                                              K6500
                                             CLKCNT,
     5476
    5477
5478
5479
    5480
5481
5482
                                                             /***********
                                                             /CONSOLE
    5483
5484
5485
5486
                                                             /ROUTINE FOR CHECKING THE STATUS OF THE CONSOLE PACKAGE /IF ACTIVE DO CALL PLUS ONE /NOT ACTIVE DO CALL PLUS3
    5487
5488
                   5420
5421
5422
5423
5424
5425
                              0000
7200
1022
0245
                                             XCHECKC8.
    5489
5490
5491
5492
5493
                                                            CLA
TAD
AND
                                                                           22
XK400
                                                                                                          /IS CONSOLE PACKAGE ACTIVE
                              7650
5243
1620
                                                            SNA CLA
JMP
TAD I
                                                                            NOTCLE
                                                                                                          /NOT ACTIVE
                                                                           XCHECKC8
PACKDO
     5494
                   5426
                                                                                                          /GET CALL TO FIELD 1
/STORE IT
    5495
5496
5497
                   5427
5430
5431
                              3235
1171
7640
                                                            DCA
TAD
SZA CLA
                                                                            TTYBUSY
                                                                                                          /IS TTY STILL BUSY /LOOP UNTIL DONE
     5498
5499
                   5432
5433
                                                             JMP
IOF
                               5230
                              6002
                   5434
5435
5436
5437
5440
                              6213
ØØØØ
7ØØØ
6ØØ1
2220
72ØØ
     5500
5501
                                                                                                          /GO TO FLD 1
/CONSOLE CALL IN HERE
                                                             CDF CIF 10
                                              PACKDO, ØØØØ
```

5503 5504

NOP

XCHECKCB

EXITCK, ISZ CLA

```
SEQ 9139
                                                                                                       V142A 9-JUN-76
                                                                                           PAL10
                                                                                                                                                         16:55 PAGE 1-104
/RX8 DATA RELIABILITY/EXELCISER -DIFXB-D
                                                                                                                           /EXIT XCHECKC8
                                                                            XCHECKC8
                                                             JMP I
                             222A
5240
                                             NOTCLE, ISZ
JMP
                                                                            XCHECKC8
                  5443
5444
   5507
                                             JMP
XK400, 400
   5508
5509
5510
5511
                                                                            EXITCK
                              0400
                                                                                                           "(NONE)"
                                                                                           TEXT
                             5016
1716
0551
0000
3722
0515
1726
0540
0411
0107
1617
2324
1103
1305
2424
0500
                                              MNONE,
                  5446
5447
   5512
                   5450
5451
5452
                                                                            "_REMOVE DIAGNOSTIC DISKETTE"
                                             REMOVE, TEXT
   5513
                   5453
5454
5455
5456
                   5457
5460
5461
5462
5463
5464
5465
5466
5467
                   5467
5470
5471
5472
5473
5474
5475
5476
5477
                                                                            TEXT "_DRIVES SELECTED: "
                              3704
2211
2605
2340
2305
1405
                                              MDISKETTE,
                              0324
0504
7240
                    5501
                               0000
5440
                                                                             TEXT ", "
                                              MCOMMA,
    5515
                    5502
                              0000
3737
0422
                    5503
                                                                             TEXT "__DRIVES NOT OK-BUT"
                    5504
5505
    5516
                                               MNOTREADY.
                    5506
5507
5510
5511
5512
5513
5514
5515
5516
5517
5520
5521
                               1126
0523
4016
1724
4017
1355
2400
4027
1114
1440
2205
2324
0122
2400
4027
1114
                                                                              TEXT " WILL RESTART"
                                               MRS,
    5517
                    5522
5523
                    5524
                                                                              TEXT " WILL HALT___"
                                                MNOGONOMORE.
     5518
                                                                                                                                                                                                                                              SEQ 0140
 /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                              PAL10
                                                                                                             V142A
                                                                                                                            9-JUN-76
                                                                                                                                                           16:55 PAGE 1-105
                     5527 1440
5530 1001
5531 1424
5532 3737
                     5531
5532
5533
                               9999
3722
3979
4004
                                                                              TEXT "_RXB DEVICE CODE IS "
                     5534
5535
5536
     5519
                                                MDEVICE,
                                4004
0526
1103
0540
0317
0405
                     5537
5540
5541
5542
5543
5544
5545
5546
                                4011
2340
0000
3723
                                                                              TEXT "_SELECT DISKETTE DRIVES"
     5520
                                                MSDRIVES.
                                0514
0503
2440
0411
2313
0524
2405
4004
2211
2605
2300
3723
                     5550
5551
5552
5553
5554
5555
5556
5557
5560
5561
5562
5563
                                                                               TEXT "_SELECT TEST PARAMATERS"
      5521
                                                MSTESTS.
                     5564
5565
5566
5567
5570
                                 0514
0503
2440
2405
2324
                      5571
5572
5573
5574
5575
5576
5577
                                 4020
0122
0115
0124
0522
2300
3714
1707
2340
2205
0622
0523
                                                                               TEXT "_LOGS REFRESHED AT "
      5522
                                                MREFRESH,
                      5600
5601
                      5602
5603
                      5604
5605
                                 1005
                      5606
                                 0124
4000
3700
3737
                      5607
                      5610
5611
5612
                                                 MCRLF,
                                                                               TEXT "_"
       5524
                                                 MCRLFS,
                                 0000
4000
3705
```

MSPACE, MEGT,

TEXT " "
TEXT "\_END OF TEST "

```
9-JUN-76
/RX8 DATA RELIABILITY/EXERCISER -DIFXB-D
                                                                                               PALID
                                                                                                               V142A
                                                                                                                                                               16:55
                                                                                                                                                                               PAGE 1-106
                                                                                                                                                                                                                                                      SEQ 0141
                   5616
5617
5620
                               1604
4017
0640
                   5620
5621
5622
5623
5624
5625
5626
5627
                               2405
2324
4000
0411
2230
0255
0440
2001
2323
4000
4016
                                                                               TEXT "DIRXB-D PASS "
    5527
                                               MPASSES,
                    5631
5632
5633
                                                                               TEXT " NO"
                                               MNO.
    5528
                               1700
3704
0526
1103
0540
2405
2324
                    5634
5635
                                               MHUNGPC,
                                                                               TEXT "_DEVICE TEST HUNG AT PC "
    5529
                    5636
5637
5640
                    5643
5644
5645
5646
                              4010
2516
0740
0124
4020
0340
0000
3737
0315
1604
                    5647
5650
5651
                    5652
5653
5654
5655
5656
5657
                                                MEHEADER,
                                                                                TEXT "__CMND XDR
                                                                                                                  CODE RSTA START
                                                                                                                                                                  TARGET
    5539
                                                                                                                                                                                      TEST PASS"
                               4030
0422
4040
                    5660
5661
5662
                               4063
1704
0540
                    5663
5664
5665
                              4022
2324
0140
                    5666
5667
5670
                              2491
2224
4040
4040
40122
0705
2440
4024
0523
2401
2323
                    5671
5672
5673
5674
                    5675
5676
5677
5700
5701
5702
                    5704
/RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                                PAL10
                                                                                                                V142A
                                                                                                                                9-JUN-76
                                                                                                                                                                16:55
                                                                                                                                                                                PAGE 1-107
                                                                                                                                                                                                                                                      SEU 1142
                               0000
3310
1715
0535
                    5705
                    5706
5707
5710
    5531
                                                MHOME.
                                                                                TEXT "[HOME]"
                    5711
5712
5713
5714
5715
                               9000
1116
1124
9000
1305
                                                                                TEXT "INIT"
    5532
                                                MINIT,
                                                                                TEXT "KEY"
    5533
                                                MKEY.
                    5716
5717
5720
                               3100
3737
1704
                                                MOD,
                                                                                TEXT "__OD = "
                    5721
5722
5723
                                4075
4000
4011
0440
7540
0000
4006
1122
2324
4075
4000
4014
                                                                                TEXT " ID = "
    5535
                                                MID.
                    5724
5725
5726
5727
5727
5730
    5536
                                                MFIRST.
                                                                                TEXT " FIRST = "
                    5732
5733
5734
                                                                                TEXT " LAST = "
    5537
                                                MLAST,
                    5735
5736
5737
                               0123
2440
7540
0000
3727
2211
2405
5500
3722
0501
0455
                    5740
5741
5742
5743
5744
5745
5746
5747
                                                MWRITE,
                                                                                TEXT "_WRITE-"
                                                                                TEXT "_READ-"
    5539
                                                MREAD.
                    5750
                                0000
                    5751
5752
5753
5754
5755
                                1617
4003
2203
4002
2524
0000
    5540
                                                 MDNSERROR,
                                                                                TEXT "NO CRC BUT"
                    5756
5757
5760
5761
                                0322
0340
0116
    5541
                                                 MDWESERROR,
                                                                                TEXT "CRC AND"
                    5761
5762
5763
5764
5765
5766
5767
5770
                                9499
4994
    5542
                                                 MDATAERROR,
                                                                                TEXT " DATA ERROR..."
                                #004

#0124

#0140

#0522

2217

2237

#000

2717

2204
                     5771
5772
5773
```

MWORD,

TEXT "WORD"

/RX8 DAT			EXERCISER -DIRXI	B-D PAL10 V142A 9-JUN-76	16:55 PAGE 1-108	SEQ 0143
5544		M231	MBYTE,	TEXT "BYTE"		
	5776 5777					
5545	6000 6001		MGB,	TEXT " GOOD BAD"		
	6002 6003					
5546	6004 6005	3400	MSNI)FDDAD.	TEXT "CRC BUT NO DATA ERROR"		
3340	6406	0340	MSNDERROR,	TEXT CAC BUT NO PAIR DANN		
		2440				
		1617 4004				
	6013	Ø121 Ø140				
	6015	0522				
	6016 6017	2200				
5547	6020 6021		MSUMCHECK,	TEXT "_SUM-CHECK IS "		
	6022 6023					
	6Ø24 6Ø25	0313				
	6026	2340				
5548	6027 6030	1713	MOK,	TEXT "OK"		
5549	6031 6032	3724	MDESUMMARY,	TEXT "_TOTAL BAD = "		
	6Ø33 6Ø34					
	6035 6036					
	6037 6040	4075				
5550 5551	6041	7200	MCOLON, MUNIT,	TEXT ":" TEXT "DISKETTE DRIVE: "		
3731	6043	0411	MONIT,	TEXT ==DIGRETTE DRIVE.		
	6044 6045	0524	*			
	6046 6047	4004				
	6050 6051					
	6052 6053					
5552	6054 6055		MDELETE,	TEXT " DROPPED FROM TEST"		
	6056 6057	2020				
	6060	4006 2217				
		1540				
ZRYR OAT	A DF1.1A		PARDCISED =DIDAB	-D PAI-10 V1478 9-1111-74	46.55 DACE 1-100	SEO MAAA
/PX8 DAT/	6063 6064 6065 6066 6067 6070 6071	BILITY/E 2405 2324 0000 3737 2324 0124 1123 2411	EXERCISER -DIKXB	-D PAL10 V142A 9-JUN-76 TEXT "STATISTICAL LOG"	16:55 PAGE 1-109	SEQ 0144
	6963 6964 6965 6966 6967 6970 6971 6972 6973 6974	2405 2324 0000 3737 2324 0124 1123 2411 0301 1440			16:55 PAGE 1-109	SEQ #144
5553	6063 6064 6065 6066 6067 6071 6072 6073 6074 6075	BILITY/E 2405 2324 0000 3737 2324 0124 1123 2411 0301 1440 1417 0700	моимр,	TEXT "STATISTICAL LOG"	16:55 PAGE 1-109	SEQ #144
	6063 6064 6065 6066 6067 6070 6072 6073 6074 6075 6077 6100	2405 2324 0000 3737 2324 0124 1123 2411 0301 1447 0700 4017 2605	моимр,		16:55 PAGE 1-109	SEQ #144
5553	6063 6064 6065 6066 6067 6072 6073 6074 6075 6076 6076 6076 6076 6076	BILITY/8 2495 2324 0000 3737 2324 0123 2411 0301 1417 0700 1417 2605 2206	моимр,	TEXT "STATISTICAL LOG"	16:55 PAGE 1-109	SEQ #144
5553	6063 6064 6065 6066 6067 6070 6072 6073 6074 6075 6076 6077 6100	BILLITY/E 2405 2324 0000 3737 2324 1123 2411 1440 11417 0700 4017 2605 2206 1417 2700	MDUMP, MLOGOVERFLOW,	TEXT "STATISTICAL LOG"  TEXT " OVERFLOW"	16:55 PAGE 1-109	SEQ #144
5553 5554	6063 6064 6065 6066 6070 6070 6071 6073 6074 6075 6076 6077 6100 6101 6102 6103 6104	BILITY/8 2495 2324 9020 3737 2324 1123 2411 0301 1447 6700 4017 2605 2206 4050 4050 4050 6125	MDUMP, MLOGOVERFLOW,	TEXT "STATISTICAL LOG"	16:55 PAGE 1-109	SEQ #144
5553 5554	6064 6065 6066 6067 6070 6071 6073 6074 6075 6077 6100 6101 6102 6103 6104 6105	BILLITY/E 2495 2324 9000 3737 2224 1123 9124 1123 11447 9700 4017 2605 2206 4017 2700 40125 2417 17501	MDUMP, MLOGOVERFLOW,	TEXT "STATISTICAL LOG"  TEXT " OVERFLOW"	16:55 PAGE 1-109	SEQ 0144
5553 5554	5064 6064 6065 6066 6067 6070 6071 6073 6073 6075 6076 6102 6102 6103 6104 6105 6107 61107	BILITY/E 2495 2324 9000 3737 2327 9124 1123 2411 6390 1417 2605 2417 2700 6125 2417 1501 2417	MDUMP, MLOGOVERFLOW,	TEXT "STATISTICAL LOG"  TEXT " OVERFLOW"	16:55 PAGE 1-109	SEQ #144
5553 5554	5063 6064 6065 6066 6067 6070 6077 6077 6077 6077	BILITY/E 2495 2324 9000 3737 2324 9124 1123 2411 9301 1447 9700 4417 2605 1417 2700 9125 2417 1501 2417	MDUMP, MLOGOVERFLOW,	TEXT "STATISTICAL LOG"  TEXT " OVERFLOW"	16:55 PAGE 1-109	SEQ 0144
5553 5554	5064 6064 6065 6066 6067 6070 6077 6077 6077 6077	BILITY/E 2495 2324 9000 3737 2324 9124 1123 2411 9301 1417 9700 4017 2605 1417 2206 1417 2405 2405 2417 1501 2417 1501 2417 1501 2417	MDUMP,  MLOGOVERFLOW,  MINTERUM,	TEXT "STATISTICAL LOG"  TEXT " OVERFLOW"	16:55 PAGE 1-109	SEQ 0144
5553 5554 5555	5063 5064 6065 6066 5067 6077 6077 6077 6076 6077 6100 6101 6102 6103 6104 6106 6106 6110 6111 6112 6113 6114 6115 6115 6115 6116	BILITY/E 2405 2324 2324 0124 1123 2411 4300 1417 6700 4017 2605 2700 4050 1417 1501 1501 1501 1520 6123 2340	MDUMP,  MLOGOVERFLOW,  MINTERUM,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"	16:55 PAGE 1-109	SEQ #144
5553 5554 5555	5063 5064 6065 6066 6067 6072 6073 6074 6076 6076 6076 6100 6101 6102 6103 6104 6106 6110 6111 6112 6113 6114 6115 6115 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117 6117	BILITY/E 2405 2324 01000 3737 2124 0124 1123 2411 0300 1417 0700 4017 2206 1417 2206 1417 1501 1501 1501 1502 2411 1504 1502 2417 1501 1502 2411 1504 1502 2411 1702 2411	MDUMP,  MLOGOVERFLOW,  MINTERUM,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"	16:55 PAGE 1-109	SEQ #144
5553 5554 5555	6064 6066 6066 6067 6071 6077 6077 6077 6077	BILITY/E 2495 2324 2324 2324 2324 2411 2341 2401 2401 2401 2401 2401 2401 2401 24	MDUMP,  MLOGOVERFLOW,  MINTERUM,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"  TEXT " PASS ABORTED"	16:55 PAGE 1-109	SEQ #144
5553 5554 5555	5063 5064 6066 6066 6067 6077 6077 6077 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076 6076	BILITY/E 2445 2324 2324 2324 2324 2324 2324 2324	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"  TEXT " PASS ABORTED"	16:55 PAGE 1-109	SEQ #144
5553 5554 5555	5063 5064 6066 6066 6067 6071 6077 6077 6076 6076 6076 6100 6101 6103 6104 6106 6110 6111 6111 6111 6111 6111 6111 6112 6122 6123 6124 6124 6126	BILITY/E 2405 0100 3737 0100 3737 0124 0124 0124 0124 01417 0700 0700 04017 22605 2411 0301 04125 2417 1501 1520 0425 1520 0425 1520 0420 0122 2405 0405 0405 0407 2405	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"	16:55 PAGE 1-109	SEQ #144
5553 5554 5555	6064 6066 6066 60667 6077 60773 60776 60776 60776 60776 61003 61004 61003 61006 61111 61112 61113 61114 61115 61117 61120 61121 61121 61123 6124 6127 6127 6128 6127 6128 6128 6129 6129 6129 6129 6129 6129 6129 6129	BILITY/E 2495 2324 9124 9124 9124 9124 9124 9124 9124 91	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"	16:55 PAGE 1-109	SEQ #144
5553 5554 5555	6064 60666 60667 60771 60773 60774 60776 60776 60776 6101 6101 6102 6103 6104 6111 6111 6111 6111 6111 6112 6112 611	BILITY/E 2495 2324 9124 9124 9124 9124 9124 9124 9127 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 9709 1417 97	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"	16:55 PAGE 1-109	SEQ #144
5553 5554 5555	6464 63666 64667 6467 64771 64773 64776 64776 64776 64776 64477 64476 6141 6141	BILITY/E 2495 2324 0100 3737 2124 1123 2324 0124 1127 2401 1417 2605 1417 2401 2276 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2405 1417 2407 1417 2407 1417 2407 1417 2407 1417 2407 1417 2407 1417 2407 2407 2407 2407 2407 2407 2407 240	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"	16:55 PAGE 1-109	SEQ #144
5553 5554 5555	6064 6066 6066 6066 6067 6077 6077 6077	BILITY/E 2495 2324 2324 6124 1123 2341 1123 2411 1440 1417 2605 1417 2605 1417 1501 2417 1501 2417 1501 2417 1500 0123 2417 1500 0123 2417 1500 0123 2405 0102 1722 0123 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0102 2405 0103 0103 0103 0103 0103 0103 0103 01	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,  MTESTP,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"	16:55 PAGE 1-109	SEQ #144
5553 5554 5555 5556	6064 6066 60667 6077 60773 60776 60776 60776 60776 6100 6100 6100	BILITY/E 2495 2324 9124 9124 9124 9124 9124 9124 9124 91	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,  MTESTP,	TEXT "STATISTICAL LOG"  TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"  TEXT " PASS ABORTED"  TEXT "TEST PARAMATERS: "	16:55 PAGE 1-109	SEQ 0144
5553 5554 5555 5556	6464 63666 64667 6467 64773 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 647776 64776 64776 647776 647776 647776 647776 647776 647776 6477776 6477776 6477776 6477777777	BILITY/E 2495 2324 0124 0124 1123 2321 0124 1127 0001 1417 0001 2401 1417 2405 0125 2411 2310 0125 2411 2411 2411 2411 2411 2411 2411 2	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,  MTESTP,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"  TEXT " PASS ABORTED"  TEXT "	16:55 PAGE 1-109	SEQ #144
5553 5554 5555 5556	6064 6066 6066 6066 6067 6077 6077 6077	BILITY/E 2495 2324 2324 2324 2411 23411 23411 2411 24	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,  MTESTP,	TEXT "STATISTICAL LOG"  TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"  TEXT " PASS ABORTED"  TEXT "TEST PARAMATERS: "	16:55 PAGE 1-109	SEQ #144
5553 5554 5555 5556	6064 6066 6066 6066 6067 6077 60773 60776 60776 6100 6100 6100 6100 6100 61	BILITY/E 2405 2324 2324 0124 11123 2411 1440 1417 6708 4017 2605 22766 1417 2605 2217 1501 1501 1502 1520 0123 2417 1501 1520 0123 2417 1501 1520 0123 2417 1501 1520 0125 2417 1520 0125 2417 1501 1520 0125 2417 1520 0125 2411 1520 0126 1520 0127 2405 0128 1520 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129 2405 0129	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,  MTESTP,	TEXT "STATISTICAL LOG"  TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"  TEXT " PASS ABORTED"  TEXT "TEST PARAMATERS: "	16:55 PAGE 1-109	SEQ #144
5553 5554 5555 5556	6064 60666 60667 60767 60773 60776 60776 60776 60776 60100 61001 61001 61101 61101 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 6111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 6111 61111 61111 61111 61111 61111 61111 61111 61111 61111 61111 611	BILITY/E 2445 2324 20100 3737 2124 1123 2411 1123 2411 1440 1417 2605 2417 1250 2417 1501 1502 2417 1502 2417 1502 2417 1502 2417 1502 2417 1502 2417 1502 2417 1502 2417 1503 1522 2411 63420 6122 2405 63737 2405 63122 2405 63122 2405 63137 2405 63122 2405 63137 2405 63122 2405 63137 2405 63122 2405 63137 2405 63122 2405 63137 2405 63122 2405 63137 2405 63122 2405 63137 2405 63122 2405 63137 2405 63122 2405 63137 2405 63122 2405 63137 2405 63137 2405 63122 2405 63137 2405 63122 2405 63123 2407 2407 2407 2407 2407 2407 2407 2407	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,  MTESTP,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"  TEXT " PASS ABORTED"  TEXT "	16:55 PAGE 1-109	SEQ W144
5553 5554 5555 5556	6464 63666 64667 6467 64677 64773 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 647776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 64776 6	BILITY/E 2495 2324 2324 6124 1123 2411 6124 1117 2605 1417 2605 2417 1501 2417 1501 2417 1501 2417 1501 2417 1501 2417 1501 2405 4020 6123 2401 6122 2417 1520 6123 2401 6122 2417 1520 6123 2401 6122 2417 1520 6123 2401 6122 2405 6123 2401 6124 6052 2372 4000 6122 2405 6124 6052 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 4000 6122 2372 2401 6052 2322 2401 2222 2372 2402 6052 2372 2402 6052 2372 2402 6052 2372 2402 6052 2372 2402 2402 6052 2372 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402 6052 2402	MDUMP,  MLOGOVERFLOW,  MINTERUM,  MINCOMPLETE,  MTESTP,	TEXT " OVERFLOW"  TEXT " (AUTOMATIC DUMP)"  TEXT " PASS ABORTED"  TEXT "	16:55 PAGE 1-109	SEO W144

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9-JUN-76
                                                                                                                                                                                                                              SEQ 0145
                                                                                                                                               16:55 PAGE 1-110
                                                                                      PAL10 V142A
/PX8 DATA RESIABILITY/EXERCISER -DIRXB-D
                                                                       TEXT " [ "
                            4040
5047
8000
                                           MLEFTPAREN.
   5560
                 6153
6154
                            4001
2524
1715
0124
1103
                                                                       TEXT " AUTOMATIC)"
                                           MARESTARTS,
   5561
                  6156
                  6157
                  6160
6161
                            5100
4011
1624
                  6162
6163
                                                                        TEXT " INTERUM REPORTS"
                                           MIDUMP,
   5562
                  6165
                            0522
2515
4022
                  6166
                           4022
0520
1722
2423
0000
3737
2422
0103
1340
                  6171
6172
6173
6174
6175
6176
                                                                                                                                  ERRORS"
                                                                        TEXT "__TRACK ACCESS SELF
                                           MDUMPHEADER,
   5563
                            0103
0305
2323
4040
4023
                  6200
6201
6202
6203
                  6204
                  6205
6206
6207
                            0514
0640
4040
0522
2217
2223
9090
2305
0324
1722
4027
                  6210
6211
6212
                  6213
6214
6215
                                                                         TEXT "SECTOR WRITES / READS = "
                                            MWRSRDS,
    5564
                  6216
6217
6220
                            2211
2405
2340
5740
2205
0100
4357
4000
4357
4000
5500
2722
1124
0500
                   6221
                   6222
                   6224
6235
6226
6227
                   6231
6232
6233
6234
6235
6236
6237
                                                                         TEXT " / "
                                            MSLASH,
    5565
                                                                         TEXT "-"
TEXT "WRITE"
                                             MDASH,
MMWRITE,
     5566
     5567
                                                                         TEXT "READ"
                                             MMREAD,
                             2205
     5568
                   6240
                                                                                                                                                 16:55 PAGE 1-111
                                                                                                                                                                                                                               SEQ 0146
                                                                                                                   9-JUN-76
                                                                                                     V142A
 /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D
                                                                                       PAL10
                   6242
6243
6244
6245
6246
6247
6250
6251
6252
6253
                             6399
                                                                         TEXT "DATA"
                             8401
2401
0000
1617
4003
2203
4002
2524
4004
                                            MMDATA.
    5569
                                                                         TEXT "NO CRC BUT DATA"
     5570
                                             MMDNS,
                              9199
2305
9513
9999
                   6254
6255
                   6256
6257
6260
6261
6262
6263
                                            MMSEEK,
                                                                          TEXT "SEEK"
     5571
                                                                          TEXT "PARITY"
                              2301
2211
2431
                                             MMPARITY,
     5572
                   6264
6265
                              0000
4005
2222
1722
2337
8000
3715
1123
2311
1607
                                                                          TEXT " ERPORS_"
                                             MMERRORS,
     5573
                   6266
6267
6270
6271
6272
6273
6274
6275
6276
                                                                           TEXT "_MISSING DD MARK"
                                             MEDDDIDNOT,
     5574
                              4004
0440
1501
2213
                    6300
6301
6302
                               0000
3725
1605
3020
                                                                            TEXT "_UNEXPECTED DD MARK"
                    6303
6304
6305
                                             MUDDDID.
     5575
                               3020
0503
2405
6440
6404
4015
6122
1300
3715
                    6306
                    6307
6310
6311
6312
                    6313
6314
6315
                                                                          TEXT "_MISSING ERROR FLAG"
                                              MNOSER,
     5576
                               1123
2311
1607
4005
2222
1722
4006
1401
                     6320
                     6322
                     6323
```

3737

MUNKNOWN,

TEXT "\_\_UNKNOWN IRQ"

```
SEQ Ø147
SEQ 0148
```

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TEXT

TOTAL BYTES = (128) X (ACCESS)

/THIS LOG IS CLEARED EACH L-S 200 ... BE CAREFUL ...

TOTAL BITS = (128) X (ACCESS) X (8)

/FOR THOSE OF YOU WHO LOVE TO CALCULATE

"\_MAINDEC-08-DIRXB-D'

/FXB DATA RELIABILITY/EXERCISER -DIPXB-D

MIDENTIFICATION,

LOGS=.

/TOTAL COMPLETED PASSES

```
5595
5596
                              PASSES=.
                    6350
                    0000
  5597
            6351
                    0000
  5598
5599
                              /TOTAL RESTARTS
  5600
  5601
                    6352
                              RESTARTS=PASSES+2
  5602
                              /TOTAL WRITES
  5603
  5604
5605
                              WRITES=RESTARTS+1
                    6353
  5606
5607
5608
5609
                               /TOTAL READS
                    6357
                              READS=WRITES+4
  5610
5611
                              /THE FOLLOWING LOGS ACCUMULATE STATISTICAL INFORMATION /PERTAINING TO THE FOLLOWING FUNCTIONS:
  5612
  5613
5614
                               /TRACK ACCESS FREQUENCY (TAF)
  5615
                               / (THE NUMBER OF TIMES A TRACK HAS BEEN ACCESSED)
                                                                                                                PAGE 1-113
/RXB DATA RELIABILITY/EXERCISER -DIRXB-D
                                                            PALIG
                                                                       V142A
                                                                                 9-JUN-76
                              /DOUBLE PRECISION LOG
  5618
                              TAF=READS+4
  5620
                   6363
  5621
5622
5623
                              SAME ACCESS
                              //THE NUMBER OF TIMES A TRACK HAS BEEN ACCESSED FROM THAT SAME TRACK
/ (WITH NO LATERAL ACTUATOR MOVEMENT OCCURING)
  5624
5625
  5626
                              /DOUBLE PRECISION LOG
                    6615
                              SAME=TAF+232
  5629
  5630
5631
5632
                              /TRACK ACCESS FREQUENCY ERROR RATE (TAFE) PER DRIVE-PER TRACK
                              / (THE NUMBER OF TIMES A TRACK WAS ACCESSED AND SOME TYPE / OF ERROR RESULTED ; I.E. , WRITE, READ, PROGRAM VERIFY)
  5633
5634
  5635
                               /SINGLE PRECISION LOG
  5637
                              TAFE=SAME+232
                    7847
  5638
  5639
5640
                    7047
7164
                              TAFE0=TAFE
TAFE1=TAFE0+115
  5641
5642
5643
                               TOTAL WRITE ERRORS PER DISKETTE
  5644
5645
5646
                               WERRORS=TAFE1+115
                    7301
                               TOTAL READ ERRORS PER DISKETTE
  5647
5648
5649
5650
                    7303
                               RERRORS=WERRORS+2
                               /TOTAL PROGRAM READ COMPARE (DATA) ERRORS PER DISKETTE
                    7305
                               DATAERRORS=RERRORS+2
  5652
   5653
5654
5655
5656
5657
5658
5659
5660
                               /TOTAL DATA ERROR WITH NO CRC ERROR STATUS
                    7307
                               DNSERRORS=DATAERRORS+2
                               /TOTAL DATA NO CRC STATUS ERROR
                    7311
                               SNDERRORS=DNSERRORS+2
   5661
                               /TOTAL (SEEK) ERRORS PER DISKETTE
   5663
   5664
5665
                               SERRORS=SNDERRORS+2
                    7313
   5666
                               /TOTAL PARITY ERRORS PER DISKETTE
   5667
                               PERRORS#SERPORS+2
                     7315
   5668
   5669
5670
5671
                               THE NEXT 14 DECIMAL LOCATIONS ARE RESERVED FOR (PER DRIVE):
                               /UNRECOVERABLE WRITE ERRORS
```

```
/RX8 DATA RELIABILITY/EXERCISER -DIRAB-D
                                                                                   PAL10 V142A 9-JUN-76
                                                                                                                                           16:55 PAGE 1-114
                                                                                                                                                                                                                       SEQ 0149
                                         /UNREVOVERABLE READ ERRORS
/UNPECOVERABLE PROGRAM READ COMPARE (DATA) ERRORS
/UNRECOVERABLE DATA NO ERROR STATUS ERRORS
/UNRECOVERABLE STATUS NO DATA ERRORS
/UNRECOVERABLE (SEEK) ERRORS
/UNRECOVERABLE PARITY ERRORS
  /B-CODES LOG
                                        DCODEs=PERRORS+2+16
UDCODES=DCODES+2
ACODES=UDCODES+2
ACRC=ACODES+2
APAR=ACRC+2
A3=APAR+2
BCODES=A3+2
                           7335
7337
7341
7343
7345
7347
7351
                                         810=BCODES+2
                           7353
                           7450
                                          XLOGS=BCODES+40+40-1
                                         /THE FOLLOWING IS THE WRITE BUFFER ALLOCATED STORAGE
                           7451
                                                       *XLOGS+1
                           0200
                                                       *200
                                                                                                 START FOR SELF STARTING BINARY LOADER
                                                       ...
```

SEQ 0150

/RX8	DATA RELIA	BILITY/EXE	ERCISER -DI	RXB-D	PAL10	V142A 9	9-JUN-76	16:55	PAGE 1-115
0000 0100	11111111 11111111	11111100	11111111	111111111	11111111	11111111	11111111	11111111	
0200 0300	11111111 11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111	
0400 0500	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111	
0600 0700	11111111	11111111 11111111	11111111	11111111	11111111	111111111111111111111111111111111111111	11111111	11111111	
1000	11111111	11111111	11111111 11111111	11111111	11111111	11111111 11111000	11111111 00111111	11111111	
1200 1300	11111111	11111111	111111111	11111111 11111111	11111111	11111111 11111101	11111111	11111111 11111111	
1400 1500	111111111111111111111111111111111111111	111111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11111111	111111111	11111111 11111111	
1600 1700	11111111	111111111	11111111	11111111	111111111	111111111	111111111111111111111111111111111111111	11111111 11111111	
2000 2100	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111 11111111	
2200 2300	11111111	11111111	111111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111	11111111 11001111	
2400 2500	11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11111111	
2600 2700	11111111	11111111	111111111	11111111	111111111111111111111111111111111111111	11111111	11111111 11111000	11111111 01111111	
3000 3100	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111	11111111	111111111111111111111111111111111111111	
3200 3300	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111	11111111 11111111	•
3400 3500	11111111	11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111	11111111 11111111	11111111 11111111	
3600 3700.	11111111	11111111	11111111	11111111 11111111	11111111 11111111	11111111 11100000	11111111 00011111	11111111 11111111	

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4000	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
4100	11111111	11111111	11111111	11111111	11111111	11111111	111111111	11111111
4200 4300	11111111	11111111	11111111	11111111	11111111	11111111	00111111	11111111
4400 4500	111111111	11111111	11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111 11001111	11111111 11111111
4600 4700	11111111 11111111	11111111 11111111	11111111	11111111 11111111	11111111 11111111	11111111	111111111111111111111111111111111111111	11111111
5000 5100	111111111	111111111	11111111	11111111	11111111	11111111	11111111 11111111	11111111
5200 5300	111111111	111111111	11111111	11111111 11111111	11111111 11111111	11111111 11111111	11111111	11111111 11111111
5400 5500	11111111	11111111	111111111	111111111	111111111111111111111111111111111111111	11111111	11111111 11111111	11111111 11111111
5600 5700	11111111	111111111	11111111	11111111	111111111	11111111	11111111	11111111
6000 6100	111111111	11111111	111111111	11111111	11111111	11111111	11111111 11111111	11111111 11111111
6200 6300	111111111111111111111111111111111111111	11111111	11111111 11111111	111111111	11111111 11111111	11111111	11111111	11111111
6400 6500								
6600 6700								
7000 7100								
7200 7300								
7400 7500								
7600 7700								

/RXS DATA RELIABILITY/EXERCISER	-DIRXB-D	PAL10 V142A	9-JUN-76	16:55	PAGE 1-117
AØ 3716	C8GET 0624	DDIGN	0 3456	GETWOR	1046
A10 9913	C8GET1 0305	DELUN		GOBIT	Ø165
A11 0011	C81NQU 4430	DEVCD		GOITA	0443
A12 0012	C8LOOK 4406	DIGIT		GOOD	0174
A13 0013	CBPASP 2132	DISPL		GOTOA	0454
A3 7347	CBPASS 4425	DMTYF		GTF	6004
ACCEPT 0661	C8RET1 0561	DNS	1323	H1	Ø164
ACODE 3724	CORETD 0614	DNSEF		HALT	4456
ACODES 7341	CORETR 0531	DNSLO		HANGER	Ø111
ACRC 7343	COSETD 0613	DOA	0622	HARDP	3551
ACSAV 1141	COSETS 0530	DOACI		HLT	4456
ACTIVE 5224	C8STRT 0200	DOB	0623	HLT1	0243
AERROR 4427	CHSWIT 4426	DOCN		HLT10	2131
ANDRET 2147	C85WST 0746	DONE	4452	HLT16	4220
ANOTØ 3711	CSTEST 4547	DONE		HLT2	0412
APAR 7345	C8TMP1 1034	DOPAC		HLT20	0204
APT8 4477	C8TST2 3161	DOSE		HLT6	2102
	CAF 6007	DRVSE		HLT7	1474
ARESTA 0103 ASTATU 0141	CCNT 2764	DTYPE		HLT8	2261
AUTO 0257	CHARLI 3305	DWESE		HUNGPC	5303
AUTOER 0267	CHECK 3111	DWS	1323	HUNGUP	5200
	CHECKC 4424	DWSLO		ID	0033
AUTOL 0262 AUTOOK 0277	CHEK22 4500	ECOM		IDUMP	Ø112
AUTORE W247	CHK22 4714	EMPT!		IF	0146
B10 7353	CKCOUT Ø24Ø	EMPT		INDEXA	0455
BCODE 3744	CKDEVI 5217	EMPT		INIT	4450
BCODES 7351	CKSWIT 4407	EMPT		INITSE	4457
BEGIN 0207	CLKCNT 5416	ENDC		INITSW	1147
BSTATU Ø142	CNOTFI 1720	ENDI		INITTR	4460
BSW 4436	CNTRLC 1006	EPAS		INMODE	1111
BSWAC 0147	CNTRLD 0600	ERET		INSUMC	1763
BSWLIN Ø150	CNTRLE 0532	ERROI		INTR	4447
BSWRAL 5166	CNTRLO Ø535	ERROI		IOF	6002
BUSY 0104	CNTRLQ 0500	ERRO		ION	6001
C8BY1 0235	CNTRLR 0504	ERROI		IOTWAT	
C8BY3 1074	CNTRLS Ø514	EXIT		ISZA11	1107
C8BY4 Ø51Ø	CNTVAL 0262	EXIT		ISZCOM	1760
. C0BY5 1134	COMMAN Ø105	EXTL		ISZDIG	2740
COCHAR 1110	COMPAR 1601	FILC		JMPAUT	0264
C8CK22 1151	COMPRE 0106	FILL	1220	JMPDIG	2730
C8CKP 1035	COUNT 5417	FILL		JMPICO	1600
COCKSE 0734	CRCERR 1443	FILL		JMPWHI	1274
CSCNTL 4431	CSTATU 0143	FIRS		JM5202	2240
C8D01 0327	DASHAL 4063	FIRS		JMSFOR	
C8D011 0607	DASHBC 4067	FLSA		KØØØ3	4747
C8D02 1046	DATAER 7305	FORC		K0007	0131
C8D04 1021	DCADOA 0615	GETA		KØ100	4750
C8D07 Ø523	DCAG00 1103	GETA		KØ2ØØ	0015
C8ERR1 1000	DCATAR 2511	GETC		KØ4ØØ	0014
C8EXT1 0236	DCODES 7335	GETD		K0750	0123
C8EXT2 #310	DDCODE 3632	GETL		K12	0120
CBFILL 1052	DDERRO 3616	GETU		K16	0121
COLTEN IONS	DNTLVO 3010	or to	n	W. T. C.	~

SEQ Ø152

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/RX8 DATA RELIABILITY/EXERCISER	-DIRXH-D	PAL10 V142A	9-JIN-76	16:55 P	AGE 1-118	SEQ 0153
K377 Ø125	MCOMMA 5502	MOL	1142		122 123	
	MCRLFS 5612	MREAD	5745	PAT4 1	1124 1125	
	MDASH 6234 MDATAE 5763	MRESTA	6145	PAT6 1	1126	
K67X2B #526	MDELET 6054 MDESUM 6032	MRUNTI	6136	PATR2 1	1015	
. K67X3 Ø532 K67X4 Ø537	MDEVIC 5534 MDIREC 1145 MDISKE 5470	MSDNUN	2532	PATSET 1	1016	
K67X5 Ø544 K67X5A 5266	MDNSER 5751	MSDRIV MSLASH	6232	PCLF 6	1112	
K67X5B 3423 K67X6 4420	MDUMP 6066 MDUMPH 6174	MEAD MEETRE MEESTA MRS MRUNTI MSB MSDNUN MSLASH MSDRIV MSLASH MSMEER MSPACE MSTEST MUDDDI MUNIT MUNKNO MWORD MWRITE MWRSRO MX HEXT NEXTSE	5516 6116 9170 2532 5547 6232 6005 5614 5563 60120 6124 6303 6042 6327 5771 6215 2134	PERROR :	7315	
K67X7 4424 K7000 9127	MDWESE 5757 MEDDDI 6272	MSTEST MSUMCH	5563 6020	PHOME 4	4146 3400	
K7377 0126 K74 0122	MEHEAD 5652 MEOT 5615	MTESTP MUDDDI	6124 6303	PICLSK :	3415 3473	
K7777 Ø113 KEYSWI 5327	MESA 1004 MESPAS 0263	MUNKNO	6042 6327	PNTBUF PNTEXT	1136 3322	
KM10 0115 KM40 0116	MESSAG 3247 MFIRST 5727	MWORD MWRITE	5772 5741	PNTID (	0722 4555	
KM6 Ø114 KM74 Ø117	MGB 6000 MHOME 5706	MWRSRD MX	6215 2134	POLL PRETRY	2267 0157	
KRETRY Ø134 LAS 4407	MHUNGP 5635 MID 5723	NEXT NEXTSE	2212 3026	PRINTU	4404	
LASSWØ 4216 LASSW3 3746	MIDENT 6336 MIDUMP 6163	NOHEAD NOINFO	4011	PSIE PSKE	6665 6663	
LAST 0035	MINCOM 6115 MINIT 5712	NOPRIN NOSER	4535 1306	PSKF PSTB	6661 6664	
LCDA 4440 LCDB 4441	MINTER 6104	NOSET NOTCLB	0250 5443	PTSTOR 046ID	Ø355 2621	
LCDBL 4262	MLAST 5734 MLEFTP 6152	NOTEST NOTICK	0405 4526	Q460D Q40D	2627 2555	
LOCK 4461	MLOGOV 6077 MMDATA 6243	NOTQ NRETUR	5321 1006	Q60D QUIET	2614 1317	
LOGBST 3726	MMDNS 6246 MMERRO 6265	NOTELS NOTECT NOTICK NOTQ NOTQ NRETUR NSTAND NULINE NUREAD NUWORD OK OKSTAR ONECRL OTHERS	2325 4535 1306 0250 5443 0405 4526 5321 1006 3140 3267 1342 3240 0032 3602 3044 4025 4250	RØ R1	4674 3347	
LOGCOM 4400 LOGGED 3554	MMPARI 6261 MMREAD 6240	NUREAD NUWORD	1342 3240	R1RETR R2	Ø151 335Ø	
LOGLSB 4412 LOGMSB 4413	MMSEEK 6256 MMUNRE 3101	OD OKRETU	0032 3602	R2RETR Rangen	Ø152 3333	
LOGMSB 4413 LOGREF 0327 LOGRER 1562	MMWRIT 6235 MNO 5633	OKSTAR ONECRL	3044 4025	RDC RDORWR	Ø133 Ø55Ø	
LOGS 6350 LOGSAM 4347	MNOGON 5525 MNONE 5446	OTHERR	4322 425Ø	READ READCO	4465 4466	
LOGTAF 4343 LSB 0167	MNOSER 6315 MNOTRE 5504	PACKDO PAGE1	5435	READL	1404	
LSBX1 3527 LSBX2 3547	MMERRO 6265 MMPARI 6261 MMREAD 6240 MMSEEK 6256 MMURRE 3101 MMWRIT 6235 MNO 633 MNOGON 5525 MNONE 5446 MNOSER 6315 MNOTE 5504 MOD 5717 MOK 6030 MOREDR 2344	PASCNT Pasmes	1000	READRE	1476 1407	
MAREST 6155 MBYTE 5775	MOREDR 2344 MPASSE 5624	PASSES PASSIN			6357 1230	
MCOLON 6041	MQA 7501	PASSRE	2123	RECALI	4200	
/DYO DATA RELIABILITY/FYFRCISE	R -DIRXB-D	PAL10 V142A	9-JUN-76	16:55	PAGE 1-119	SEQ 0154
/RX8 DATA RELIABILITY/EXEPCISE	R -DIRXB-D START 0140	PAL10 V142A		XCSING	0635	SEQ 0154
/RX8 DATA RELIABILITY/EXEPCISE  REDO1 9662  REDOA 9415  REFILL 1214	START 0140 STESTP 0172 STOP 4471	PAL10 V142A TTYBUS TTYLPI TWOCRI		XC8LOO XC8LOO	0635 1221 1013	SEQ 0154
/RXB DATA RELIABILITY/EXEPCISE  REDO1 9662 REDOA 9415 REFILL 1214 REMOVE 5452 REKEAD 1414	START 0140 STESTP 0172 STOP 4471 STOPNT 0356 STR 4444	PAL10 V142A TTYBUS TTYLPI TWOCRE TY1ASC		XC8ING XC8LOO XC8OCT XC8PAS XC8PNT	0635 1221 1013 0200 0322	SEQ 0154
/RXB DATA RELIABILITY/EXEPCISE  REDO1 Ø662 REDOA Ø415 REFILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESSEEK 1416	START 0140 STESTP 0172 STOP 4471 STOPNT 0356 STR 4444 SUNCHE 0166 SUNITS 0175	PAL10 V142A TTYBUS TTYLP1 TWOCRI TY1ACC TY4OCT TY8OCT		XC8ING XC8LOO XC8OCT XC8PAS XC8PNT XC8PSW XC8SW	0635 1221 1013 0200 0322 0652 0272	SEQ 0154
/RX8 DATA RELIABILITY/EXEPCISE  REDO1 Ø662 REDOA Ø415 REFILL, 1214 REMOVE 5452 REKEAD 1414 RERROR 73Ø3 RESEEK 1416 RESSEQU 2440 RESTAR 6352	START 0140 STESTF 0172 STOP 4471 STOPNT 0356 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 2000	PAL10 V142A TTYBUS TTYLP1 TWOCRE TY1ASC TY40CT TYBOCT TYBOCT TYBOCT TYBOTT TYPEIT		XC8ING XC8LOO XC8OCT XC8PAS XC8PNT XC8PSW XC8SW XC8TTY XC8TYP	0635 1221 1013 0200 0322 9652 0272 0311 1112	SEQ 0154
/RX8 DATA RELIABILITY/EXEPCISE  REDO1 9662 REDOA 9415 REFILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEX 1416 RESEQU 2440 RESTAR 6352 RETURI 2000	START 0140 STESTP 0172 STOP 4471 STOPNT 0356 STR 4444 SUMCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW10 0002 SW10 0002 SW11 0002	PAL10 V142A TTYBUS TTYLPT TWOCRE TY1ASC TY4OCT TYBST! TYPE!' UDCOD! UNIT		XC8INQ XC8LOO XC8LOO XC8PAS XC8PNT XC8PSW XC8TTY XC8TTYP XC8TTYP XCHECK XCKSWI	0635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744	SEQ 0154
/RX8 DATA RELIABILITY/EXEPCISE  REDO1 9662 REDOA 9415 REFILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEK 1416 RESEEK 1416 RESEEK 2440 RESTAR 6352 RETUR1 2000 RETUR1 1003 RETURN 1600 REWRIT 1206	START 0140 STESTP 0172 STOP 4471 STOPNT 0356 STR 4444 SUMCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW1 2000 SW1 0001 SW1 0001 SW1 0001 SW2 1000 SW3 0400	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY8OCT TYBOT TYBOT TYPET UUCODI UNIT UNITS UNITS	9 0171 1137 4023 3306 4473 4475 4476 4474 27337 2274 2270 2273	XC8ING XC8LOO XC8OCT XC8PAS XC8PSW XC8SW XC8STY XC8TYP XCHECK XCKSWI XCNT XCNT	0635 1221 1013 0220 0322 0652 0272 0311 1112 5420 0744 0124	SEQ 0154
REDO1 0662 REDOA 0415 REFILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 2000 RETURI 2000 RETURN 3600 REWRIT 1206 RLOGGE 1564	START 0140 STESTP 0172 STOP 4771 STOPNT 0356 STR 4444 SUNCITS 0175 SW0 4000 SW1 2000 SW1 2000 SW1 0001 SW1 0001 SW1 10001	TTYBUS TTYLPT TWOCRE TY1ASC TY4OCT TY8OCT TYBOT TYPET UDCOOL UNITS	0171 1137 4023 3396 4473 4475 4475 4476 4474 2733 2274 2270 2270 2273 2272 3366	XC8ING XC8LOO XC8PAS XC8PAS XC8PSW XC8STTY XC8TYP XCHECK XCKSWI XCNT XCOMPA XCROEPA XCROEPA XCROEPA	0635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275	SEQ 0154
REDO1 0662 REDOA 0415 REFILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 2000 RETURY 1003 RETURY 1003 RETURN 1600 REWRIT 1206 RADGE 1564 RMOTOK 1522 ROK 1510	START 0140 STESTP 0172 STOP 1476 STR 4445 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW1 0002 SW1 1000 SW2 1000 SW2 1000 SW3 0400 SW4 0200 SW4 0200 SW4 0200 SW5 0100 SW6 0040	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY8OCC TYBSCT TYPEIT UDCODI UNIT UNITS UNITS UNITS UNITS UNITS UNITS	0171 1137 4023 3396 4473 4475 4076 4474 2270 2277 2277 2277 2278 3466 3520 0615	XC8ING XC8LOO XC8PAS XC8PAT XC8PSW XC8SW XC8TTY XC8TYP XCHECK XCKSWI XCNT XCOMPA XCRCER XDELUN XDELUN XDELUN XDELUN XDELUN XDELUN XDELUN	0635 1221 1013 0200 0322 0652 0652 0372 0311 1112 5420 0744 0124 1663 1472 2275 5262	SEQ 0154
REDO1 0662 REDOA 0415 REFILL, 1214 REMOVE 5452 REHEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETUR1 2000 RETUR2 1003 RETURY 3600 REWRIT 1206 RLOGGE 1564 RNOTOK 1510 RS RS RERROR 3602 RS RS	START 0140 STESTP 0172 STOPN 10356 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW1 0002 SW1 1000 SW2 1000 SW2 1000 SW2 1000 SW3 0400 SW4 0200 SW4 0200 SW5 0100 SW6 0040	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY8OCT TYBST TYPEI' UNCODI UNIT UNITS UNITS UNITS UNITS UNKNOI UNROC UPAROI UPEAO USEEK USTAR	0171 1137 4023 3306 4473 4475 4076 4474 7337 2274 2270 2273 2272 3466 3520 60 3520 60 615 1345 1446	XC8ING XC8LOO XC8POT XC8PAS XC8PSW XC8SW XC8TYP XCHECK XCXSWI XCNT XCNT XCNT XCNCER XCRCER XDELUN XDELUN XDOLPT XDOSW	0635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513	SEQ 0154
REDO1 0662 REDOA 0415 REFILL 1214 REMOVE 5452 REHEAD 1414 RERROR 7303 RESSEEK 1416 RESSEQU 2440 RESTAR 6352 RETURI 2000 RETURY 1003 RETURY 3600 REWRIT 1206 RLOGGE 1564 RNOTOK 1510 RS 2237 RXERRO 3642 S200 0236	START 0140 STESTP 0172 STOP 4771 STOPNT 0356 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW1 2000 SW1 9001 SW2 1000 SW3 0400 SW3 0100 SW6 0040 SW7 0020 SW8 0010 SW8 0010 SW8 0010 SW8 0010 SW8 0010 SW9 5004	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY8OCT TY8OCT TYBOT TWPEI' UDCODI UNITS UNITS UNITS UNITS UNKNOI UNREC UPAROI UREAO	0171 1137 4023 3306 4473 4475 4076 4474 27337 2274 2270 2273 2272 3466 0 3520 0 615 1345 1345 1345 1346 0 173	XC8INO XC8CA XC8PAS XC8PAS XC8PBY XC8SW XC8SW XC8TYP XCHECK XCKSWI XCNT XCKSWI XCNT XCNC XDEUN XDEUN XDONE X	8635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4407 0513 44442 2331	SEQ 0154
REDO1 0662 REDOA 0415 REF ILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 2000 RETURZ 1003 RETURN 3600 REWRIT 1206 RLOGGE 1564 RNOTOK 1510 RS 2237 RERRO 3642 S200 0236 S202 4434 S202RE 4516 SAME 6615	START 0140 STESTP 0172 STOP 4771 STOPNT 0356 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW1 2000 SW1 9001 SW2 1000 SW3 0400 SW3 0100 SW6 0040 SW7 0020 SW8 0010 SW8 0010 SW8 0010 SW8 0010 SW8 0010 SW9 5004	TTYBUS TTYLPI TWOCRI TY1ASC TY4ACC TYBST TYBST TYPEI UUCODI UNIT UNITS U	0171 1137 4023 3396 4473 4475 4475 44776 24774 2270 2277 2277 2277 2277 2277 3466 3520 0615 1345 1440 07173 4502 2370	XC8INO XC8CA XC8PAS XC8PAS XC8PAS XC8PW XC8SW XC8SW XC8TYP XCHECK XCKSWI XCNT XCNT XCMPA XCRCER XDEUIN XDOMPA XDOM	8635 1221 1013 0200 0220 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 4442 2231	SEQ 0154
REDO1 0662 REDOA 0415 REF ILL 1214 REMOVE 5452 REHEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 2000 RETURI 1003 RETURN 3600 REWRIT 1206 RLOGGE 1564 RNOTOK 1510 RS 2237 RXERRO 3642 S200 0236 S202 4434 S202RE 4516 SANE 6615 SAVEBS 3665 SAVEDS 3666 SDN 4446	START 0140 STESTP 0172 STOP 4771 STOPNT 0356 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW1 2000 SW1 2000 SW1 2000 SW3 0400 SW3 0400 SW3 0400 SW4 0220 SW8 0010 SW6 0040 SW7 0020 SW8 0010 SW8 0010 SW8 0010 SW8 0010 SW8 0010 SW8 0010 SW7 1007 SW8 0010 SW8 0010 SW7 1007 SW8 10	TTYBUS TTYLPT TWOCRE TY1ASC TY4OCT TY8OCT TY8OCT TYBST TYPETI UNCODI UNIT UNITS UNITS UNITS UNITS UNKNOI UNREC UPAROI USEEK USTAR VERIF WØ WAIT WATEX WATNE	0171 1137 4023 3396 4473 4475 4076 4474 2270 2277 2277 2277 3466 03520 0615 1345 1440 0773 4473 4473 4474 2273 2273 2273 2273 2	XC8 INO XC80DO XC80CA XC8PMT XC8PMT XC8SW XC8TTY XCHECK XCKSNI XCHECK XCKSNI XCHECK XC	0635 1221 1013 0200 0322 0652 0652 0811 1112 5420 0744 0124 1663 1472 2275 5262 11125 4707 0513 4442 2331 4443 4723 5010 5062	SEQ 0154
REDO1 0662 REDOA 0415 REF ILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 2000 RETURI 2000 RETURN 3600 RETURN 3600 REWRIT 1206 RLOGGE 1564 RNOTOK 1522 ROK 1510 RS 2237 RXERRO 3642 S200 0236 S202 4434 S202RE 4516 SAMEBS 3645 SAVEBS 3645	START 0140 STESTP 0172 STOP 4771 STOPNT 0356 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW1 2000 SW1 2000 SW1 1000 SW3 4400 SW3 4400 SW3 4400 SW4 0200 SW3 0400 SW4 0200 SW3 0400 SW4 0200 SW3 0400 SW4 0200 SW5 0100 SW6 0100 SW7 0020 SW8 0010 SW9 0004 SW7 0020 SW8 0010 SW9 0004 SW1NOP 5353 TOT7 0671 TAB 4472 TAB27 4104 TAB51 4157 TAB53 4157 TAB53 4157 TAB53 4157 TAB60 2525	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY8OCT TYBST TYPEI' UNCODI UNIT UNITS UNITS UNITS UNITS UNKNOI UNREC UPAROI USEEK USTAR VERIF WØ WAIT WATEX WATME WERPO WHAT2 WATME	0171 1137 4023 3396 4473 4475 4076 4474 2270 2277 2277 2277 3466 0 3520 0 615 1345 1440 1440 4502 2370 3461 4670 4502 2370 3371 3071 1552	XC8 INO XC80CA XC80CA XC8PAT XC8PAT XC8PAT XC8SW XC8TTY XCHECK XCKSNI XCOMPA XCRCER XDELUN XDEVIC XDOUPT XDONE XDOUT XDONE XDOUT XDROUT XDROUT XDRUMPA XDUMPA XDUMPA XEMPTY	0635 1221 1013 0200 0322 0652 0652 0311 1112 5420 0744 0663 1472 2275 5262 1125 4707 0513 4442 2331 4443 4723 5910 5962 5117 2071	SEQ 0154
REDO1 0662 REDOA 0415 REF ILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 2000 RETURI 2000 RETURI 1206 RLOGGE 1564 RNOTOK 1522 ROK 1510 RS 2237 RXERRO 3642 S200 0236 S202 4434 S202RE 4516 SAWEBS 3645 SAVECS 3666 SDN 4446 SDMFIR 0227 SDNOK 5230 SDNOK 426 SDNOK 426 SDNOK 426 SDNOK 5230 SDNSEC 4426 SDNOK 5230	START 0140 STESTP 0172 STOP 4771 STOPNT 0356 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW1 2000 SW1 1000 SW1 1000 SW2 1000 SW3 0400 SW4 0200 SW3 0400 SW4 0200 SW5 01100 SW6 0040 SW7 0020 SW8 0010 SW9 0000 SW7 0020 SW8 0010 SW9 0000 SW7 1000 SW9 0000 SW7 1000 SW9 0000 SW7 1000 SW9 0000 SW7 1000 SW9 0000 SW7 0471 TAB1 4472 TAB27 4104 TAB5 4044 TAB5 4044 TAB5 34157 TAB60 2525 TABLA 0461 TABLA 0461 TABLA 0461	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TYSOCT TYSOCT TYPET UNCODI UNIT UNITS UNITS UNITS UNITS UNKNOI UNREC UPAR UNKNOI UREAD USEEK USTAR VERIF WØ WAIT WATEX WATME WERPO WHAT3 WHAT3	0171 1137 4023 3306 4473 4475 4475 4476 2274 2270 2273 2274 2270 2273 3466 03520 0615 1345 1440 1440 1440 4502 2370 2370 2370 1440 4502 370 51144 7301 3071 1552	XC8 INO XC80CA XC80CA XC8PAS XC8PNT XC8PSW XC8STYP XCHECK XCSTYP XCHECK XCOUN XCNT XCOMPA XCNT XCOMPA XCNT XCOMPA XCNT XCOMPA XCNT XCOMPA XCONT XCO	0635 1221 1013 0200 0322 0652 0652 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 4442 2331 4443 4723 5010 5062 5117 2071 1715	SEQ 0154
REDO1 0662 REDOA 0415 REFILL 1214 REMOVE 5452 REKEAD 1414 REROOR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 2000 RETURI 1200 RETURI 1200 RETURN 3600 RETURN 1200 RETURN 1520 ROK 1510 RS 2237 RXERRO 3642 S200 0236 S202 4434 S202RE 4516 SAME 6615 SAVEBS 3645 SAVEBS 3645 SAVEBS 3645 SAVES 3666 SDN 4466 SDNFIR 0227 SDNOK 5230 SDNSEC 4426 SDNUNE 1304 SECTOR 0135 SEQ 2442	START 0140 STESTP 0172 STOP 1772 STOP 0356 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 0002 SW1 1000 SW1 0002 SW1 0002 SW1 0100 SW2 1000 SW3 0400 SW4 0200 SW5 01100 SW5 0100 SW5 0100 SW5 0100 SW5 0100 SW7 0020 SW5 0100 SW7 0020 SW8 0004 SW7 0020 SW8 0100 SW7 1000 SW7 100	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY8OCT TY8OCT TYBOCT TYBSTI TYPEIT UNCODI UNIT UNITS UNITS UNITS UNITS UNKNOI UNECC UPAROI UREAD USEEK USTAR VERIF WØ WAIT WATEN WATEN WERPO WHAT3 WHAT3 WHAT4 WHOTO WRESC	0171 1137 4023 3396 4473 4473 4475 4076 4474 2270 2277 2277 3466 3520 14440 16173 17345 17440 1737 17345 17440 1737 1737 1737 1737 1737 1737 1737 173	XC8 INO XC8 CO X	0635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 4442 22331 4443 4723 5010 5062 5117 2071 1715 3610 3007	SEQ 0154
REDO1 0662 REDOA 0415 REFILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 2000 RETURI 2000 RETURI 1206 RLOGGE 1564 RNOTOK 1522 ROK 1510 RS 2337 REERRO 3642 S200 2434 S202 4434 S202RE 4516 SAWES 3666 SAWES 3666 SDN 4446 SDMFIR 0227 SDNOK 5230 SDNSCC 4426 SDNUNE 1304 SECTOR 0135	START 0140 STESTP 0172 STOP 1772 STO	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY8OCT TY8OCT TYBOT TYBOT UNITS UNITS UNITS UNITS UNITS UNITS UNKNOI UNECC UPEAO USEEK USTAR VERIF WØ WATT WATME WERPO WHAT3 WHAT4 WHAT4 WHOTO WRESE WRITE WRITE	0171 1137 4023 3306 4473 4473 4475 44076 4474 2270 2274 2273 2272 3466 0 3520 0 6615 1345 1345 1345 1345 1346 0 173 2 3461 4670 4502 2370 5 1144 7 3307 1 1552 1 1300 5 1272 1 1300 5 1272 1 1272 1 1272 1 1272	XC8 INO XC8 CON XC8 CO	0635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 4442 2331 4443 4723 5010 5062 5117 2071 1715 3610 3007 2425 2200	SEQ 0154
REDO1	START 0140 STESTP 0172 STOP 4475 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 0002 SW1 1000 SW1 1000 SW2 1000 SW2 1000 SW3 0400 SW3 0400 SW4 0200 SW5 0100 SW6 0040 SW7 0020 SW8 0010 SW9 0004 SW7 0020 SW8 0010 SW9 0004 SW7 0021 TAB 1472 TAB 14126	TTYBUS TTYLPI TWOCRI TY1ASC TY4OCT TY8OCT TY8OCT TY8OCT TYBOT TYPOLT UNITS UNITS UNITS UNITS UNITX UNKNO UNECC UPARO UPEAD USERK USTAR VERIF WØ WAIT WATEX WATME WERDO WHAT2 WHAT3 WHAT3 WHAT4 WHOTO WRESE WRITE WRITE WRITE	0171 1137 4023 3306 4473 4475 44076 4474 2270 2277 2274 2277 2277 3466 0 3520 0 4615 1345 1345 1345 1345 1345 1346 4670 4502 2370 5 1144 R 7301 3071 15537 R 1300 K 1272 E 1212 4501 L 1262 R 1251	XC8 INO XC8 CON XC8 CO	8635 1221 1013 0200 0222 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 4442 2231 4443 4723 5010 5962 5117 2071 1715 3610 3007 2425 2280 5516	SEQ 0154
REDO1 0662 REDOA 0415 REF ILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETUR1 2000 RETUR2 1003 RETURN 3600 REWRIT 1206 RLOGGE 1564 RNOTOK 1522 ROK 1510 RS 2237 RXERRO 3642 S200 0236 S202 4434 S202RE 4516 SAME 6615 SAVEBS 3645 SAVECS 3666 SDN 4466 SDNFIR 0227 SDNOK 5230 SDNSEC 4426 SDNNEC 4426 SDNNEC 1304 SECTOR 0135 SEC 2442 SECABO 2564 SECOBO 2545 SECOBO 2545 SECODEC 2501 SECOINC 2470	START 0140 STESTP 0172 STOP 4471 STOPNT 0356 STR 4444 SUMCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW1 0002 SW1 0002 SW1 0000 SW2 1000 SW2 1000 SW2 1000 SW3 0400 SW4 0220 SW5 0100 SW6 0040 SW7 0020 SW8 0010 SW9 0004 SW7 0020 SW9 0004 SW7 0021 TAB 24104 TAB 4174 TAB 4174 TAB 4174 TAB 4174 TAB 4174 TAB 4174 TAB 53 4177 TAB 53 4177 TAB 53 4014 TAB 53 4157 TAB 6363 TAFE 7047 TAFE	TTYBUS TTYLPT TWOCRI TYTYLPT TWOCRI TYYAOCT TYSOT TYPST TYPET UNCODI UNIT UNITS UNITS UNKNO UNREC UPARO USEEK USTAR VERIF WØ IT WATEX WATE	0171 1137 4023 3396 4473 4475 4076 44775 4076 2277 2277 2277 2277 2277 3466 0 35520 0 0615 1345 1440 1440 4570 2370 2370 2473 4476 4570 2370 2473 4476 4570 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370 25370	XC8 INO XC80CA XC80CA XC80CA XC8PMT XC8PMT XC8SW XC8TYP XCHECK XCNT XCOMEA XCRCEA XOELUN XDEVI XDOUPT XDONE XDOUPT XDONE XDOUPT XDONE XDOUPT XDUMPL XDUMPL XDUMPL XDUMPL XDUMPL XEMPTY XFLENG XFORCE XGETAN XGETAN XGETAT XHLIT XINITT XINITT	0635 1221 1013 0200 0322 0652 0652 0742 0744 06124 1663 1472 2275 5262 1125 4707 0513 4442 2331 4443 4723 5010 5062 5117 2071 1715 3610 3007 2425 2200 5126 5276 4423 33000	SEQ 0154
REDO1 0662 REDOA 0415 REF ILL 1214 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 1206 RETURI 1206 RETURN 3600 RETURN 1206 RIOGGE 1564 RNOTOK 1522 ROK 1510 RS 2237 RXERRO 3642 S200 0236 S202 4434 S202RE 4516 SAWEBS 3645 SAVEBS 3645 SAVEBS 3645 SAVEBS 3645 SAVEBS 3646 SDN 4446 SDNFIR 0227 SDNOK 5230 SNNSEC 4426 SDNUNE 1304 SECTOR 0135 SEQ 2442 SEQABO 2654 SEQBO 2667 SEQRI 2466 SEQRI 2466	START 0140 STESTP 0172 STOP 4771 STOPNT 0356 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 2000 SW1 2000 SW1 0002 SW1 1000 SW2 1000 SW3 0400 SW4 0200 SW5 0100 SW4 0200 SW5 0100 SW7 0020 SW7 0020 SW7 0020 SW5 0100 SW7 0020 SW5 0100 SW7 0020 SW7 0020 SW7 0020 SW7 0020 SW7 0020 SW5 0100 SW7 0020 SW7 00	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY3OCT TY3OCT TYSOT TYPET UNCODI UNIT UNITS UNITS UNITS UNITS UNFRO UNFAC UPARO USEEK USTAR VERIF WØ WAIT WATEX WATME WERPO WHAT3 WHAT4 WHOT0 WRESE WRITE	0171 1137 4023 3306 4473 4473 4475 4476 7337 2274 2270 2273 3466 03520 0615 1345 1440 1440 4502 213 23461 4670 4502 21300 81144 87301 1552 11557 11557 11557 11557 11557 11557 11557 11557 11500 81272 81204 01262 81271 1262 81271 1262 81262 81262 81271 94654 95000	XC8 INO XC80CA XC80CA XC8PAS XC8PNT XC8PSW XC8STYP XCHECK XCSTYP XCHECK XCNT XCOMPA XCNT XCNT XCNT XCNT XCNT XCNT XDOLPT XDONE XDOLPT XDONE XDRIV XCMPTY XFLENG XGETAN XGETUN XHALT XHITT XINITT XINITT XINITT XINITT	0635 1221 1013 0200 0322 0652 0652 0311 1112 5420 0744 06124 1663 1472 2275 5262 1125 4707 0513 4442 2331 4443 4723 5010 5062 5117 2071 1715 30610 3007 2425 2280 55126 5276 4423 30000 2413 44415 4455	SEQ 0154
REDO1 0662 REDOA 0415 REFILL 1214 REMOVE 5452 REKEAD 1414 REROOF 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 2000 RETURI 1200 RETURI 1200 RETURI 1200 RETURN 3600 REWRIT 1206 RLOGGE 1564 RNOTOK 1522 ROK 1510 RS 2237 RXERRO 3642 S200 0236 S202 4434 S202RE 4516 SAWE 6615 SAVEBS 3645 SAVEBS 3645 SAVES 3666 SDN 4446 SDNFIR 0227 SDNOK 5230 SDNSEC 4426 SDNUNE 1304 SECTOR 0135 SEQ 2442 SEQABO 2564 SEQBEO 2545 SEGDEC 2501 SEGIN 2470 SEGRI 2466 SEGRI 2466 SEGRI 2467 SEGRAN 2452 SEGSTR 2600 SER 4445	START 0140 STESTP 0172 STOP 1772 SW10 0002 SW1	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY1ASC TY4OCT TYBOCC TYBST TYPEIT UDCODD UNIT UNITS UNITS UNITS UNITS UNITS UNKNO UNEAD USEAR VERIF WØ WALT WATME WERPO WHAT3 WHAT3 WHAT3 WHICH WNOTO WRESE WRITE	0171 1137 2023 3306 4473 4473 4474 4774 2270 2277 2277 2277 3466 3520 1440 1345 1440 14670 4502 2370 1144 8 7301 1552 11440 1552 11537 1300 1144 1251 1300 1144 1262 1270 1262 1271 15537 1300 1144 1262 1270 1264 1262 1270 1264	XC8 INO XC8 CON XC8 CO	0635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 4442 2331 4443 4723 5010 5062 5117 2071 1715 3610 3007 2425 2200 5116 5276 4423 3000 2413 44415 4561 5445 5262	SEQ 0154
REDO1 0662 REDOA 0415 REFILL 1214 REMOVE 5452 REKEAD 1414 REROOR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 1003 RETURN 3600 REWRIT 1206 RLOGGE 1564 RNOTOK 1522 ROK 1510 RS 2237 RXERRO 3642 S200 0236 S2D2 4434 S202RE 4516 SAWE 6615 SAVEBS 3645 SAVECS 3666 SDN 4446 SDNFIR 0227 SDNOK 5230 SDNSEC 4426 SDNUNE 1304 SECTOR 0135 SECQ 2442 SECABO 2564 SECABO 2564 SECABO 2564 SECABO 2564 SECABO 2564 SECABO 2467 SECARO 2470 SECARO 2470 SECARO 2467	START 0140 STESTP 0172 STOP 4771 STOPNT 0356 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW1 0002 SW1 1000 SW2 1000 SW2 1000 SW3 0400 SW4 0200 SW5 0100 SW6 0040 SW7 0020 SW8 0010 SW7 0020 SW8 0010 SW7 1000 SW8 0010 SW7 1000 SW8 10100 SW8 10100 SW7 10020 SW8 10100 SW7 10000 SW7	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY1ASC TY4OCT TYBOCT TYBOCT TYBOT UNITS UNITS UNITS UNITS UNITS UNITS UNKNO UNECO UPERO USEEK USTAR VERIF WØ WATT WATME WERPO WHAT3 WHAT3 WHAT4 WHAT5 WHAT5 WHAT5 WHAT5 WHAT6 WRATE WRITE	0171 1137 3396 4473 4473 4474 4076 4474 2279 2273 2277 2277 2277 3466 3520 0615 1345 10473 4670 4502 2370 1144 670 4502 2370 11552 1144 7307 11552 1144 7307 11552 1144 7307 11552 1144 7307 11552 1144 7307 11552 1144 7307 11552 1144 7307 11552 78 1300 78 1300 78 1272 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300 78 1300	XC8 INO XC8 CON XC8 CO	8635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 44442 2331 4443 4723 3000 3007 2425 2200 55126 5276 4423 33000 2413 44415 4561 5445 5262 5263 5204	SEQ 0154
REDO1 0662 REDOA 0415 REFILL 1214 REMOVE 5452 REHEAD 1414 REROOR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 1003 RETURY 1003 RETURY 1003 RETURY 1206 ROWN 1510 ROWN 1510 RS 2237 REROR 3642 ROWN 1510 RS 2237 REROR 3642 S200 0236 S202 4434 S202RE 4516 SAME 6615 SAVEDS 3666 SDN 4446 SDNFIR 0227 SDNOK 5230 SDNSEC 4426 SDNUNE 1304 SECTOR 0135 SEQ 2442 SEQABO 2654 SEGABO 2654 SEGOBC 2501 SEGINC 2470 SEGINC 2470 SEGINC 2470 SEGINC 2470 SEGINC 2470 SEGINC 2466 SEGRAN 2452 SEGSTR 2660 SER 4445 SERROR 7313 SETUP 4467 SHIFT 2713 SHIFT 5763	START 0140 STESTP 0172 STOP 172 STOP 172 STOP 173 STOP 173 STOP 175 STOP 17	TTYBUS TTYLPT TWOCRI TY1ASC TY4ACT TY1ASC TY4ACT TY8DCT TYBST TYPEIT UNCODI UNIT UNITS UNITZ UNKNO UNREC UPARO USEAK USTAR VERIF WØ WAIT WATT WATT WATT WATT WHATT WATTE WRITE WRITE WRITE WRITE WRITE WRITE WRITE WRITE XADD XAPT XAST	0171 1137 4023 3306 4473 4473 4474 4474 2270 2273 2274 2277 2277 3466 0 3615 1345 1345 1345 1345 1346 4670 4502 2370 S 1144 R 7301 1552 F 1537 R 1300 X 3461 1252 E 1212 4501 L 1262 E 1212 4501 L 1262 E 1212 4501 L 1262 E 1212 A 501 L 1262 E 1213 A 501 L 1262 E 1251 S 6353 B 000 0 3351 E 2157 0 000 0 3351 E 2157 0 1762	XC8 INO XC8 CON XC8 CO	8635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 4442 22331 4443 4723 5010 5062 5117 2071 1715 3610 3007 2425 2200 5276 4423 33000 2413 44415 4461 5445 5262 5263 5304 4621 4602	SEQ 0154
REDO1	START 0140 STESTP 0172 STOP 4772 STOP 172 STOP 172 STOP 175 SUM 0356 STR 4444 SUNCHE 0166 SUNITS 0175 SWM 4000 SWM 0002 SWM 0010 SWM 0200 SWM 0200 SWM 0010 SWM 0020 SWM 0020 SWM 10020 SW	TTYBUS TTYLPI TWOCRI TY1ACT TY1ACT TY1ACT TY8OCT TY8OCT TY8OCT TYBOT UNITS UNITS UNITS UNITS UNITS UNITX UNKNO UNECC UPEAO USEEK USTAR VERIF WØ WATT WATT WATTE WATTE WATTE WATTE WRITE	0171 1137 4023 3306 4473 4473 4475 44076 44076 4474 2270 2273 3466 0 3615 1345 1345 1345 1345 1345 1346 1373 1346 1373 1346 1373 1346 1347 13520 1348 1348 1348 1348 1348 1348 1348 1348	XC8 INO XC8 CON XC8 CO	8635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 4442 2231 4443 4723 5010 5962 5117 2071 1715 3610 3007 2425 2200 5276 5276 5276 5276 5276 5276 5276 5276	SEQ 0154
REDO1	START 6140 STESTP 6172 STOP 4471 STOPNT 6356 STR 4444 SUMCHE 6166 SUNITS 6175 SW0 4000 SW1 2000 SW1 2000 SW1 0002 SW1 0002 SW1 0002 SW1 0000 SW2 1000 SW2 1000 SW2 1000 SW3 0020 SW4 0200 SW4 0200 SW5 0040 SW7 0020 SW8 0010 SW9 0004 SW7 0020 SW8 0010 SW9 0004 SW7 0021 SW8 0010 SW9 0004 SW7 0021 TAB 1 4126 TAB	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY1ASC TY4OCT TYSST TYPEI UDCODI UNIT UNITS UNITS UNITS UNKNO UNREC UPAN USEEK USTAR VERIF WØ WAIT WATEX WATME WERPO WHAT3 WHAT4 WHICH WNOTO WRESE WRITE WRITE WRITE WRITE WRITE WRITE WRITE WRITE WRITE XAPOR XAPO	0171 1137 4023 3306 4473 3306 4473 4475 4076 4474 2270 2273 2270 2273 3466 035520 0615 1345 1440 14670 4502 2370 2370 2370 2470 2470 2470 2470 2470 2470 2470 24	XC81NO XC80CA XC80CA XC8PMT XC8PMT XC8PMT XC8SW XC8TYP XCHECK XCSTYP XCHECK XCSTYP XCHECK XCNT XCOMPA XCROPR XDELUN XCNT XDOUT XDONP XDUNPL XDONP XDUNPL XDUNP	0635 1221 1013 0200 0322 0652 0652 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 4442 2331 4443 4723 5010 5062 5117 2071 1715 30610 3007 2425 2280 5526 4233 4445 445 5445 5266 5276 4423 3000 2413 4415 4461 5445 5262 5263 5304 4621 4602 4226 4233 4260 4394	SEQ 0154
REDO1 0662 REDOA 0415 REFILL 1214 REMOVE 5452 REKEAD 1414 REMOVE 5452 REKEAD 1414 RERROR 7303 RESEEK 1416 RESEQU 2440 RESTAR 6352 RETURI 2000 RETURI 1200 RETURI 1200 RETURI 1200 RETURI 1500 REWRIT 1520 ROK 1510 RS 2237 RXERRO 3642 S200 0236 S202 4434 S202RE 4516 SAWE 6615 SAVEBS 3642 S202RE 4516 SAWE 6615 SAVEBS 3645 SAVECS 3666 SDN 4446 SDNFIR 0227 SDNOK 5230 SDNSEC 4426 SDNUNE 1304 SECTOR 0135 SEQ 2442 SECABO 2554 SECABO 2554 SECABO 2564 SECABO	START 0140 STESTP 4172 STOP 4776 STR 4444 SUNCHE 0166 SUNITS 0175 SW0 4000 SW10 0002 SW10 0002 SW1 1000 SW2 1000 SW2 1000 SW3 0420 SW5 0100 SW6 0040 SW7 0020 SW8 0010 SW7 0020 SW8 0010 SW7 10020 SW8 0404 SW7 10020 SW8 0406 SW7 1006 SW8 0406 SW8 0406 SW7 1006 SW8 0406	TTYBUS TTYLPT TWOCRI TY1ASC TY4OCT TY1ASC TY4OCT TY8OCT TY8OCT TYBOT UNITS UNITS UNITS UNITS UNITS UNITS UNITS UNITS UNKNO UNECO UPERO USEEK USTAR VERIF WØ WAIT WATE WATE WATE WATE WATE WATE WATE WAT	0171 1137 1023 104023 104473 104475 104474 102277 102277 103466 103520 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 10446 1	XC81NO XC80CA XC80CA XC8PAS XC8PWT XC8SW XC8STYP XCHECK XCSTYP XCHECK XCSON XCSTYP XCHECK XCSON XCSTYP XCHECK XCSON XCSTYP XCHECK XCSON XCSTYP XCHECK XCON XCRCCC XDOLPT XDONE XCETUN XXETUN XXETUN XXINIT XINIT X	8635 1221 1013 0200 0322 0652 0272 0311 1112 5420 0744 0124 1663 1472 2275 5262 1125 4707 0513 44442 2331 4443 4723 3600 2413 4415 4561 5546 5276 4423 33000 2413 4415 4561 5546 5276 4423 33000 2413 4415 4561 5546 5276 4423 33000 2413 4415 4561 5546 5276 4423 33000 2413 4415 4561 5546 5276 4423 33000 2413 4415 4561 5465 5262 5263 5304 4621 4602 4226 4233 4260	SEQ 0154

PAL10 V142A 9-JUN-76 16:55 PAGE 1-120 SEQ Ø155 /RX8 DATA RELIABILITY/EXERCISER -DIRX8-D 0522 0525 5056 3010 4432 0176 3226 0647 0004 XLOGCO 4352
XLOGGE 7450
XLOGGE 7450
XLOGGE 7450
XLS 9233
XMESSA 1316
XMNOED 2342
XMNOED 2245
XNOCTAL 2760
XOUTPU 3220
XPATTE 1102
XPASSE 9260
XPATTE 1400
XPATTE 1400
XREADC 1400
XREADC 1400
XREADC 1400
XREADC 1400
XREADC 1400
XREADC 1500
XREAD 1500
XREA XXDRIN XXDROU XXDUMP XXGETA XXINIT XXKCC XXTAB XXTHEL XXX XYTHEL YDUMP 0651 5167 YYY ZERO 0005 2755 /RX8 DATA RELIABILITY/EXERCISER -DIRXB-D 9-JUN-76 16:55 PAGE 1-121 SEQ 0156 PALIG V142A

ERRORS DETECTED: 0 LINKS GENERATED: 279 RUN-TIME: 31 SECONDS

4K CORE USED

AØ A1 ø	957# 5155	4202# 14#8 5179	1409 5180	1410 5199	4926 5201 1934	4940 5322 1954	4941 5329 2657	5122 5331 5124	5123 5141	5127 5143	5129 5149	5150 5198	5151 5202	5153 5324	
A11	958# 5325 959#	1898	1999	1924 2655	4922	4950	4958	4967	5152	5160	5162	5177	5178	5190	
A12 A13 A3	960# 5687#	3715 5688	3718	3733	1758	1763									
ACCEPT ACODE	1677 4198 4199	1706 4200 4203	1718 4204 5684#	1751# 4205 5685	4208#	1703									
ACODES ACRC ACSAV	4199 4199 232	5685# 235	5686 410	641	721#										
ACTIVE AERROR	531Ø 989#	5311# 3894	5320 3957	4256											
ANDRET ANOTØ APAR	2861 4187 5686#	287Ø# 4197# 5687				*			,						
APT8 ARESTA	1113# 1125#	1250 1288	2974	2982 2267	4808 2497	3837	3857	3885	4185	4317	4549				
ASTATU AUTO AUTOER	1155# 1328# 1339	1361 1372 1344#	1793	2201	•										
AUTOOK	1331# 1338	1350 1346	1359#	5070											
AUTORE B10 BCODE	1287 4218 4217	1320# 4222 4219	2984 5690# 4223	4224	4227#										
BCODES BEGIN	4218 1232	4222 1233	5688# 125Ø#	5690	5692 4440										
BSTATU BSW BSWAC	1156# 1022# 1161#	4129 3677 5236	4213 3694 5241	4342 5248	5251										
BSWLIN BSWRAL	1162# 5240	5238 5246	5249 5253#	3809	3812	3897	4023	4042	4045	4846	5270				
BUSY C8BY1	1126# 56 647	1254 58 650	1323 78# 656#	91	3012	3077	•								
C8BY3 C8BY4 C8BY5	315# 706	468 714#		256	264	266	268	398	482	495	507	511	515	517	
C8CHAR C8CK22	147 679 50	148 681# 233	247 3618 430	256 463	264 648	730#	736	737							
C8CKP C8CKSE	582 1295	591 1813#	595# 1818	1820											
C8CNTL C8D01 C8D011	994# 174# 380	4866 195 384#													
C8D02 C8D04	614# 583#	616 592													
C8D07 C8ERR1 C8EXT1	326 514 55	331# 514 79#	551#												
COUNTY	•-														
															SEQ 0158
C8EXT2 C8FILL	124 610	128# 618#	346	386	403#	411	438	652	656	673					
CBGET CBGET1 CBINQU	303 123 992#	332 125# 5223	340	300	1001										
C8LOOK C8PASK	945# 2848#	1807 1853													
C8PASS C8PET1 C8RETD	983# 1639# 382	1854 387	390#												
C8RETR C8SETD	304 378	329 383 312	337# 385 324	389# 330	336#										
CBSETS CBSTRT CBSWIT	301 318 986#	1232#	1479	1817	5302										
C8SWST C8TEST	315 4865#	466 54#2	469 587	521 590	524# 594#										
C8TMP1 C8TST2 CAF	580 3611# 30#	583 3617 562	5381 1801												
CCNT CHARLI	3416 3639	3421 3702	3426 3709 3584	3437# 3711# 3601											
CHECKC CHECKC CHECK	1538 979# 1115#	35621 1471 1290	1478 1426	1806 1827	1816 3664	1852 3716			5301 5462						
CHK22 CKCOUT	1116 57	54521 70 53061	72	5057 81#	93	94					•				
CKDEVI CKSWIT CLKCNT	5303 895 5465	9481 5468													
CNOTFI CNTRLC	2584 288	26456 5596 3776	;												
CNTRLD CNTRLE CNTRLO	293 292 294	345 351	ŀ												
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CNTRLS CNTVAL COMMAN	86 11271	100	3849	4088	4465	4466	4482	4497	4516						
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COUNT CRCERR CSTATU	5467 2269 11571	5477 2305 4139	# 4346	4459											
DASHAL Dashbc	4315 4329	4330 4334													
DATAER DCADOA DCAGOO	1658	5652 1666 1933	# 1950												
DCATAR DCODES	3197 4064	3200 4066	32Ø8 5682	3211 5683	•										
DDCODE	4067	4068	4971	•											

DDERRO	3870	4059#													SEQ 0159
DDIGNO	3444	3871#													
DELUNI	1049# 1432	1364 5430#													
DEVCDE DIGITS	3395	3417	3434#												
DISPLA	1780	1782	1791#												
DMIYEE	4061 2165#	41)62 2288	4073 2362	4087	4193	4841	4845#								
DNS ONSEPR	2144	5656#	5664												
DNSLOG	1171#	2251	2438	2442	2561	2588									
DOA DOACTI	1666 5299#	1678# 5314													
вол	1656	1664	1679#												
DOCNT	88 1051#	90 1371	96# 1711	2817	3070	4988	5196								
DONE DONEA	246	253#	1 / 11	2011	317.15	******	3								
DOPACK	51	57#													
DOSET DRVSEL	82 1111#	89 1291	92	99#											
DTYPE	4048#	4074													
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DWS DWSLOG	1170	2250	2563	3544	3548										
ECOMMA	1207#	4089	4306												
EMPTY Emptye	2515≢ 2506	2727 2732*													
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ENDIT	501	506	520#												
EPASS	1129# 4017#	1263 4463	2823	4412	4840										
ERETUR Error	4113	4120	4239#												
EPROR2	4239	4254#													
ERROR3 ERRORM	1980# 4959	4414 4961	4991#												
EXITA	255	263#													
EXITCK EXTLOO	5501# 803#	55Ø8 8Ø6													
FILCHT	612	615	619#												
FILL FILLER	2061# 2058	2066 2069#													
FILLOK	2057	2071	2082#												
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FLSAVE	238	407	643	723#					=						
FORCE	1278 4325	2155 4375	2590 4389	2778 4663	3817 4858	4041# 5364	4047 5412	4110	4117	4254	4276	4284	4296	4312	
GETASE	1053#	2035	2241												
GETATR GETCH1	1055# 488#	1672 500	1717												
GETDAT	243	244	251	277#											
GETLCD	4481	4495#	4506	4515											
GETUNI	1057#	1328	1671	1693	1716	3066	4923	5171							SEQ 0160
GETWOR	1921#	1956	2061	2515		3066	4923	5171							SEQ 0160
GETWOR GOBIT	1921# 1209#	1956 1255			1716 4644	3066	4923	5171							SEQ 0160
GETWOR GOBIT GOITA GOOD	1921# 1209# 249 1225#	1956 1255 266# 1941	2061 3830 1947	2515 4643 1950	4644 1952	3066 2064	4923	5171 2669							SEQ 0160
GETWOR GOBIT GOITA GOOD GOIOA	1921# 1209# 249 1225# 271	1956 1255 266# 1941 272	2061 3830 1947 273	2515 4643	4644										SEQ 0160
GETWOR GOBIT GOITA GOOD GOIOA GTF H1	1921# 1209# 249 1225# 271 28# 1208#	1956 1255 266# 1941 272 237 1784	2061 3830 1947	2515 4643 1950	4644 1952										SEQ 0160
GETWOR GOBIT GOITA GOOD GOIOA GTF H1 HALT	1921# 1209# 249 1225# 271 28# 1208# 1059	1956 1255 266# 1941 272 237 1784 1360#	2061 3830 1947 273 642 3085	2515 4643 1950 274	4644 1952 275#	2064	2540	2669							SEQ 0160
GETWOR GOBIT GOITA GOOD GOIOA GTF H1 HALT HANGER HARDP	1921# 1209# 249 1225# 271 28# 1208# 1059 1131# 3979	1956 1255 266# 1941 272 237 1784 1060# 1257 3987#	2061 3830 1947 273 642 3085	2515 4643 1950 274	4644 1952 275#	2064 3081	2540 3087	2669 5273							SEQ 0160
GETWOR GOBIT GOITA GOOD GOIOA GTF H1 HALT HANGER HARDP HLT	1921# 1209# 249 1225# 271 28# 1208# 1059 1131# 3979 1059#	1956 1255 266* 1941 272 237 1784 1060* 1257 3987* 1237	2061 3830 1947 273 642 3085	2515 4643 1950 274	4644 1952 275#	2064	2540	2669	2979	3082	4452	5304			SEQ 0160
GETWOR GOBIT GOITA GOOD GOIOA GTF H1 HALT HANGER HARDP HLT HLTI	1921# 1209# 249 1225# 271 28# 1208# 12087 1131# 3979 1059 1141	1956 1255 266* 1941 272 237 1784 1060* 1257 3987* 1237 1237 2841	2061 3830 1947 273 642 3085	2515 4643 1950 274	4644 1952 275#	2064 3081 2333	2540 3087	2669 5273	2979	3082	4452	5304			SEQ 0160
GETWOR GOBIT GOOD GOOD GOTOA GTF HALT HANGER HARDP HLT HLTI HLTIU HLTIU	1921# 1209# 1249 1225# 271 208# 12089 11319 1059 11319 1059# 1241 1845	1956 1255 266* 1941 272 237 1784 1.060* 1257 3987* 1237 1297* 2841 4452*	2961 3839 1947 273 642 3085 1327 1297 2847*	2515 4643 1950 274	4644 1952 275#	2064 3081	2540 3087	2669 5273	2979	3082	4452	5304			SEQ 0160
GETWOR GOBIT GOITA GOOD GOIOA GTF H1 HALT HANGER HARDP HLT HLTI	1921# 1209# 249 1225# 271 28# 1208# 12087 1131# 3979 1059 1141	1956 1255 266* 1941 272 237 1784 1060* 1257 3987* 1237 1237 2841	2961 3839 1947 273 642 3085 1327	2515 4643 1950 274	4644 1952 275#	2064 3081 2333	2540 3087	2669 5273	2979	3082	4452	5304			SEQ 0160
GETHOR GOBIT GOITA GOOD GOTOA GTF H1 HALT HANGER HARDP HLT HLT1 HLT11 HLT12 HLT22 HLT22 HLT2	1921# 1209# 1225# 271# 1208# 11059 1131# 1059 14319# 1829 1415 8339 837	1956 1255 266# 1941 272 237 1784 1060# 1257 1297# 1297# 14452# 1475# 12370#	2961 3839 1947 273 642 3085 1327 1297 2847*	2515 4643 1950 274	4644 1952 275#	2064 3081 2333	2540 3087	2669 5273	2979	3082	4452	5304			SEQ 0160
GETHOR GOBLT GOOD GOTOA GTF H1 HALT HANGER HARDP HLI HLII HLII HLII HLT12 HLT2 HLT2 HLT6 HLT7	1921# 12099 12299 12271# 1208# 1208# 14319 14319 14599 1415 8433 8437 854	1956 1255 266# 1941 272 237 1784 1060# 1257 3987# 1237 1297# 2841 4452# 1237# 2810# 2333#	2961 3839 1947 273 642 3085 1327 1297 2847*	2515 4643 1950 274	4644 1952 275#	2064 3081 2333	2540 3087	2669 5273	2979	3082	4452	5394			SEQ 0160
GETHOR GOBLT GOOD GOTOA GTF H1 HALT HANGER HARDP HLT HLT10 HLT12 HLT2 HLT2 HLT2 HLT4 HLT6 HLT7 HLT8 HUNGPC	1921# 1249# 1249# 12251 208# 1206# 12959 11379 1059# 1415 8433 8497 854 8571	1956 1255 266# 1941 272 237 1784 1357 3987# 1257 3987# 1237 1297# 2841 2452# 1475# 12373 2410# 2333# 2979#	2061 3830 1947 273 642 3085 1327 1297 2847* 5437 4774	2515 4643 1950 274	4644 1952 275#	2064 3081 2333	2540 3087	2669 5273	2979	3082	4452	5304			SEQ 0160
GETHOR GOBLT GOOD GOTOA GTF HI HALT HANGER HARDE HLT HLTI HLTI HLTI HLT1 HLT1 HLT2 HLT2 HLT6 HLT7 HLT8 HUNGPC HUNGGUP	1921# 1209# 1209# 1271 208# 12089 11059 11371# 1059 141 833 849 837 854 858 1790	1956 1255 266# 1941 272 237 1706# 1357 1297# 1297# 1297# 1452# 1475# 28108 2333# 2979# 5371	2061 3830 1947 273 642 3085 1327 1297 2847* 5437 4773	2515 4643 1950 274 1777 1475	4644 1952 275# 1786 2160	2064 3081 2333	2540 3087 2810	2669 5273 2847					3592		SEQ 0160
GETHOR GOBLT GOOD GOTOA GTF H1 HALT HANGER HARDP HLI HLII HLII HLII HLII HLII HLIT HLIT	1921# 1249# 1249# 12271 208# 1208# 1208# 1379# 14339 8497 8551 8453 8497 8551 1790# 1113	1956 1255 266# 1941 272 237 1784 1360# 1257 1297 1297 1297 1475# 1237# 2812 2833# 2979# 5371 3090 1515	2961 3839 1947 273 642 3085 1327 1297 2847* 5437 4774	2515 4643 1950 274 1777 1475	1952 275# 1786 2160	2064 3081 2333	2540 3087 2810	2669 5273	2979	3082	4452	530 <b>4</b> 3573	3592		SEQ 0160
GETHOR GOBIT GOOD GOTF H1 HALT HANGER HARDP HLI HLII HLIII HLTI2 HLT2 HLT2 HLT2 HLT3 HUNGEC HUNGUP ID IDUMP IF	1929# 1929# 1929# 1929# 1929# 1929# 1939# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959# 1959#	1956 1255 266# 1941 272 237 1706# 1257 3987# 1257 1297# 2841 4452# 1475# 2810# 2333# 2979# 2319# 5371 3090 1515 1267	2061 3830 1947 273 642 3085 1327 1297 2847* 5437 4773	2515 4643 1950 274 1777 1475	4644 1952 275# 1786 2160	2064 3081 2333	2540 3087 2810	2669 5273 2847					3592		SEQ 0160
GETHOR GOBLT GOOD GOTOA GTF H1 HALT HANGER HARDP HLI HLII HLII HLII HLII HLII HLIT HLIT	1921# 1249# 1249# 12271 208# 1208# 1208# 1379# 14339 8497 8551 8453 8497 8551 1790# 1113	1956 1255 266# 1941 272 237 1784 1360# 1257 1297 1297 1297 1475# 1237# 2812 2833# 2979# 5371 3090 1515	2961 3839 1947 273 642 3085 1327 1297 2847* 5437 4774	2515 4643 1950 274 1777 1475	1952 275# 1786 2160	2064 3081 2333	2540 3087 2810	2669 5273 2847					3592		SEQ 0160
GETTOR GOBT GOOD GOTO GOTO GOTF H1 HALT HANGER HARGER HARGER HLII HLII HLII HLII HLII HLII HLII HLI	1921# 1249# 1249# 12271 208# 1278# 12059 13979 1059 141379 14138 8437 8554 85710 117916# 1241 10462# 10462#	1956 1255 266# 1941 272 237 1784 1360# 1257 1297* 2941 4452# 1475# 1237# 2810# 2333# 2979# 3090 1155 1289 2334 2979# 3467 258 2989 3467 258 2983	2961 3834 1947 273 642 3085 1327 1297 2847* 5437 4773 5373* 5270* 4777 3470 270 4449 2238	2515 4643 1950 274 1777 1475	1952 275# 1786 2160	2064 3081 2333 3121 3479	2540 3087 2810	2669 5273 2847					3592		SEQ 0160
GETHOR GOBLT GOOD GOTOA GTF H1 HALT HANGER HARDP HLI HLI10 HLI10 HLI16 HLT2 HLT20 HLT6 HLT7 HLT8 HUNGPC HUNGPC HUNGPC IDUMP IF INDEXA INITSE INITSE	1921# 12099# 12099# 12071# 12099# 1271# 12089 11013799 11013799 113799# 14338497 164338497 164338497 164338497 164454	1956 1255 266# 1941 272 237 1786# 1357 1297# 1297# 1297# 1297# 1297# 1297# 2810# 2799# 13099 1515 1289 3467 2983	2061 3830 1947 273 642 3085 1327 1297 2847* 5437 4773 5373* 5270* 1519 4777 3470 270 24449	2515 4643 1950 274 1777 1475	1952 275# 1786 2160	2064 3081 2333	2540 3087 2810	2669 5273 2847					3592		SEQ 0160
GETHOR GOBLT GOOD GOTOA GTF H1 HALT HANGER HARDP HLIT HLI10 HLI116 HLT2 HLT20 HLT7 HLT8 HUNGPC HUNGUP ID ID ID ID ID IN INITSE INMODE	1921# 1249# 12249# 12271 278# 12059# 12059# 130759 1137794 130759 141338497 161324645 17916411046464 104644	1956 1255 266# 1941 272 237 1784 1360# 1257 1297# 1237 1297# 1452# 1475# 1475# 1237# 2818# 2979# 3090 1515 250 2983 2983 2983 2983 2983 2983 2983 2983	2961 3834 1947 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 1519 270 4449 2238 2211 1692 313	2515 4643 1950 274 1777 1475 1520 4816 3472 276* 4292 1715	1952 275# 1786 2160 1531 3478 4349 674	2064 3081 2333 3121 3479 4370 678	2540 3087 2810 3207 3492	2669 5273 2847	3329	3353	3374	3573	3592		SEQ 0160
GETTOR GOBT GOOD GOTF H1 HALT HANGER HARDP HLI HLII HLIII HINGEL INIII INIITE INIITE INIITE INSUMC	19209 # # 249 # 2249 # 2249 # 2271	1956 1255 266# 1941 272 237 1784 1369# 1257 1297# 1297# 1297# 1297# 1297# 1297# 1297# 1297# 1297# 1297# 1297# 1297# 1297# 12979# 1515 1289 3467 2583 2034 2034 1670 302 2360	2061 3830 1947 273 642 3085 1327 1297 2847* 5437 4774 5373* 1519 4777 3470 2738 2011 1692 313 3510	2515 4643 1950 274 1777 1475 1520 4816 3472 276* 4292 1715 4792 1734	1952 275# 1786 2160 1531 3478 4349 674 2535	2064 3081 2333 3121 3479 4370 678 2694#	2540 3087 2810 3207 3492	2669 5273 2847					3592		SEQ 0160
GETHOR GOBLT GOOD GOTOA GTF H1 HANGER HARDER HARDER HLT HLT10 HLT10 HLT12 HLT20 HLT6 HLT7 HLT8 HUNGER HUNGDC HUNGDC IDUMP IF INDEXA INITSE INITSE INITSE INITSE INITSE INSUMC INTR	1921## 12499# 12798# 12778## 12059 113759 113759 113759 113759 113759 113759 113759 113759 113645 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 124524 12	1956 1255 266# 1941 272 237 1784 1360# 1257 1297 1297 1297 1297 1475* 2841 4452# 1475* 2818 2337 2337 2337 241 251 251 251 261 261 261 261 261 261 261 261 261 26	2961 3830 1947 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 1519 4777 3470 270 4449 2231 1692 2311 1692 2312 2516 2726 2646 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766 2766	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 479 2534 3833 5499	1952 275# 1786 2160 1531 3478 4349 674 2535 4489	2064 3081 2333 3121 3479 4370 678 26949 4528	2540 3087 2810 3207 3492 6828 2762	2669 5273 2847 3221	3329 2775	3353 2781	3374 2788	3573	3592		SEQ 0160
GETTOR GOBT GOOD GOTF H1 HALT HANGER HARDP HLIT HLI1 HLT10 HLT12 HLT2 HLT2 HLT2 HLT7 HLT8 HUNGPC HUNGUP ID IDUMP IF INDEXA INITSE INITSE INITSE INITSE INSUMC INSUMC INTR	1929 # 1929 # 1929 # 1929 # 1929 # 1929 # 1929 # 1929 # 1929 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 1939 # 19	1956 1255 266# 1941 272 237 1784 1368# 1237 1297 2841 4452# 1475# 1237# 2833# 2979# 3090 1515 1299 2520 2983 2016 2016 3062 2369 2017 3062 2369 3062 2369 31639	2961 3834 1947 273 642 3085 1327 1297 2847* 5437 4773 5373* 5270* 4777 3470 420 4219 42238 2019 4191 4272 4492 4191 4272 4492 4191 4272 4492 4191 4272 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492 4492	2515 4643 1950 274 1777 1475 1520 4816 3472 276* 4292 1715 479 2534 3833 5499 1808	1952 275# 1786 2160 1531 3478 4349 674 2535	2064 3081 2333 3121 3479 4370 678 2694#	2540 3087 2810 3207 3492	2669 5273 2847	3329	3353	3374	3573	3592		SEQ #16#
GETTOR GOBT GOOD GOTF H1 HALT HANGER HARDP HLIT HLI1 HLI11 HLI12 HLT22 HLT22 HLT21 HLT16 HLT7 HLT8 HUNGPC HUNGUP ID ID ID ID IF INDEXA INIT INITSE INITSE INITSE INITSE INSUMC INTR IOF IOF IOTWAT ISZA11	19249 # 249 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 229 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 231 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249 # 249	1956 1255 266# 1941 272 237 1784 1/60# 1257 1297 2841 4452# 1475# 1237# 2841 4452# 1475# 1237# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2810# 2	2961 3834 1947 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 1519 4777 2449 2418 2710 2720 2428 2011 2726 5469 5475 5475 5477 3086 5469 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 479 2534 3833 5499	1952 275# 1786 2160 1531 3478 4349 674 2535 4489	2064 3081 2333 3121 3479 4370 678 26949 4528	2540 3087 2810 3207 3492 6828 2762	2669 5273 2847 3221	3329 2775	3353 2781	3374 2788	3573	3592		SEQ v16v
GETTOR GOBIT GOOD GOTA GOOD GOTF H1 HALT HANGER HARDP HLIT HLIII HLIII HLIII HLIII HLIII HLIII HLIII HLITA HLITA HLITA HLITA HLITA HLITA HLITA HUNGPC HUNGPC HUNGPC HUNGPC HUNGPC HUNGPC INTE INITSE I	1921# 1249# 1249# 12271 208# 12059# 1271 208# 12059# 12059 13379 1059 131379 1059 131379 1059 11328 11041 104628 1104528 1104528 1104528 1104528 1104528 1104528 1104528 1104528 1104528 1104528 1104528 1104528 1104528	1956 1255 266# 1941 272 237 1784 1360# 1287 1287 1297 1297 1291 1475# 1237 12919 14552# 1237 12919 14552# 1233# 29198 1515 1289 3467 2528 2983 2919 3467 2528 2983 2919 3663 1639 3663 1648 2983	2961 3834 1947 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 11692 211 221 449 223 231 2510 269 270 269 270 270 270 269 270 270 270 270 270 270 270 270	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 479 2534 3834 3688	1952 275# 1786 2160 1531 3478 4349 674 2535 4489	2064 3081 2333 3121 3479 4370 678 26949 4528	2540 3087 2810 3207 3492 6828 2762	2669 5273 2847 3221	3329 2775	3353 2781	3374 2788	3573	3592		SEQ v16v
GETTOR GOBT GOOD GOTF H1 HALT HANGER HARDP HLIT HLII HLT10 HLT16 HLT2 HLT20 HLT7 HLT8 HUNGPC HUNGUP ID IDUMP IF INDEXA INITTR INITSE INITSE INITSE INITSE INITTR INMODE INSUMC INTR IOF ION IOTWAT ISZOIG JMPAUT	1929# 19249# 1249# 12271# 1209# 12718# 12718# 12718# 12718# 12718# 12718# 12718# 1379# 1459# 14538 1479 14538 14791 1466643 14666643 14666643 14666643 14666643 14792 14792 14792 14792 14792 14792 14792 14792 14792 14792	1956 1255 266# 1941 272 237 1784 1360# 1257 1297 2841 4452# 1475# 1237# 2841 4452# 1458 2333# 2979# 3309 1515 1289 2983 2034 2010 1670 2036 2036 2037 2034 2010 1670 2036 2036 2037 2034 2010 2036 2036 2037 2034 2010 2036 2036 2037 2034 2010 2036 2036 2034 2010 2036 2036 2037 2034 2010 2036 2036 2037 2034 2010 2036 2034 2010 2036 2036 2037 2034 2040 2040 2040 2040 2040 2040 2040	2961 3834 1947 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 1519 4777 2449 2418 2710 2720 2428 2011 2726 5469 5475 5475 5477 3086 5469 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477 5477	2515 4643 1950 274 1777 1475 1520 4816 3472 276* 4292 1715 479 2534 3833 5499 1808	1952 275# 1786 2160 1531 3478 4349 674 2535 4489	2064 3081 2333 3121 3479 4370 678 26949 4528	2540 3087 2810 3207 3492 6828 2762	2669 5273 2847 3221	3329 2775	3353 2781	3374 2788	3573	3592		SEQ 0160
GETHOR GOBLT GOOD GOTA GOOD GOTF H1 HALT HANGER HARDP HLIT HLITI HUNGGPC H	1921## 1249## 12249# 122718## 12059 ## 12059 ## 12059 ## 130529 ## 130529 ## 130529 ## 130529 ## 130529 ## 130529 ## 130529 ## 130529 ## 130529 ## 130529 ##	1956 1255 266# 1941 272 237 1784 1360# 1257 1297# 1237 1297# 1452# 1475# 1237# 2813# 2979# 5371 3090 1515 5371 3090 1515 3090 1516 3092 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 23428	2961 38347 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 1519 270 4449 22011 1692 313 2510 2726 5469 1775 3086 1954* 2679* 3427	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 479 2534 3834 3688	1952 275# 1786 2160 1531 3478 4349 674 2535 4489	2064 3081 2333 3121 3479 4370 678 26949 4528	2540 3087 2810 3207 3492 6828 2762	2669 5273 2847 3221	3329 2775	3353 2781	3374 2788	3573	3592		SEQ 0160
GETTOR GOBT GOOD GOTF H1 HALT HANGER HARDP HLIT HLII HLT10 HLT16 HLT2 HLT20 HLT7 HLT8 HUNGPC HUNGUP ID IDUMP IF INDEXA INITTR INITSE INITSE INITSE INITSE INITTR INMODE INSUMC INTR IOF ION IOTWAT ISZOIG JMPAUT	1921# 1249# 12249# 12249# 12271 208# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059# 12059#	1956 1255 266# 1941 272 237 1784 1360# 1257 12897 1297# 1237# 1237# 2810# 1475# 1237# 2810# 1475# 1237# 2810# 1475# 1237# 2810# 1475# 1237# 2810# 1475# 1237# 2810# 1475# 1237# 2810# 1475# 1237# 2810# 1475# 1237# 2810# 1475# 1475# 1477# 382 2363# 1948 2417# 3842 2807 2131#	2961 3834 1947 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 1519 270 4449 2238 2011 1692 313 2510 4478 313 2510 4478 313 2510 4478 3427 2811	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 479 2534 3834 3688 4881	1952 275# 1786 2160 1531 3478 4349 674 2535 4489	2064 3081 2333 3121 3479 4370 678 26949 4528	2540 3087 2810 3207 3492 6828 2762	2669 5273 2847 3221	3329 2775	3353 2781	3374 2788	3573	3592		SEQ 0160
GETTOR GOBTT GOOD GOTF H1 HALT HANGER HARDP HLI HLIII INITE INITE INITE INITE INSUMC INITR INFO INITR INI	19249 # # # # # # # # # # # # # # # # # # #	1956 1255 266# 1941 272 237 1784 1/60# 1257 1297 1297 1297 1297 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 1476# 14	2961 38347 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 1519 270 4449 22011 1692 313 2510 2726 5469 1775 3086 1954* 2679* 3427	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 479 2534 3834 3688	1952 275# 1786 2160 1531 3478 4349 674 2535 4489	2064 3081 2333 3121 3479 4370 678 26949 4528	2540 3087 2810 3207 3492 6828 2762	2669 5273 2847 3221	3329 2775	3353 2781	3374 2788	3573	3592		SEQ 0160
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GETTOR GOBT GOOD GOTF H1 HALT HANGER HARDP HLIT HLII HLIII H	19249 # # # # # # # # # # # # # # # # # # #	1956 1255 266# 1941 272 237 1784 1369# 1237 1297# 2841 4452# 14237# 2833# 2979# 3090 1515 1299 2533 2613 1616 2763 2841 2652 3467 362 2462 2428 2428 2428 2428 2428 2428 2558# 5084#	2961 3834 1947 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 1519 270 4449 2238 2011 1692 313 2510 4478 313 2510 4478 313 2510 4478 3427 2811	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 479 2534 3834 3688 4881	1952 275# 1786 2160 1531 3478 4349 674 2535 4489	2064 3081 2333 3121 3479 4370 678 26949 4528	2540 3087 2810 3207 3492 6828 2762	2669 5273 2847 3221	3329 2775	3353 2781	3374 2788	3573	3592		SEQ v16v
GETTOR GOBTT GOOD GOTF H1 HALT HANGER HARDP HLIT HLIII HUNGEC HUNGUP IO IO IOUMAT INITR INMODE INSTOR INS	19249 # # # # # # # # # # # # # # # # # # #	1956 1255 266# 1941 272 237 1784 1060# 1257 1297# 2841 4452# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475# 1475#	2961 3834 1947 273 642 3085 1327 1297 2847* 5437 4774 5270* 1519 4777 3470 270 4449 1362 2811 3032 4949 1362	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 4794 1818 3833 5499 1808 3088 4881	1952 275# 1786 2160 1531 3478 4349 674 2535 4489 1819	2064 3081 2333 3121 3479 4370 678 26948 4528 2879	2540 3087 2810 3207 3492 6828 2762	2669 5273 2847 3221	3329 2775	3353 2781	3374 2788	3573	3592		SEQ v16v
GETTOR GOBT GOOD GOTF H1 HALT HANGER HARDP HLIT HLII HLII HLII HLII HLII HLII HLIT HLIT	192094 122494 122494 12271 12371 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 12071 120	1956 1255 266# 1941 272 237 1708 1367# 12877 1297# 1237 1297# 1237# 2810# 14552# 1475# 1237# 2810# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1475# 1237# 2810# 1452# 1452# 1475# 1237# 2810# 1452# 1478 3842 2810# 1670 302 2360 3082# 3417# 3842 2807 2983 2983 2010 1670 302 2360 2983 2010 1670 302 2360 2983 2010 1515 2983 2010 1515 2983 2010 1515 5084 3407 5084# 3407	2961 3839 1947 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 1519 4479 2238 2011 1692 313 2510 270 4449 3427 2811 3032	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 479 2534 3834 3888 4881 3048 4956	1952 275# 1786 2160 1531 3478 4349 674 2535 4489 1819	2064 3081 2333 3121 3479 4370 678 26948 4528 2879	2540 3087 2810 3207 3492 682# 2762 3727	2669 5273 2847 3221 2765 3819	3329 2775 3901	3353 2781	3374 2788	3573	3592		SEQ v16v
GETTOR GOBTT GOOD GOTF H1 HALT HANGER HARDP HLIT HLII HLIII HLIII HLIII HLIII HLIII HLIT2 HLT2 HLT2 HLT3 HUNGP HUNGUP ID ID ID ID ID ID IT INDEXA INITSE INI	19249 1 249 1 249 1 227 1 2059 1 227 1 2059 1 227 1 2059 1 2059 1 2059 1 2059 1 2059 1 2059 1 2059 1 2059 1 2059 1 2059 1 2059 1 2059 1 2059 1 2059 1 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2 2059 2	1956 1255 266# 1941 272 237 1784 1369# 1237 1297 1297 1475# 2841 4452# 14237# 2841 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1452# 1	2961 3834 1947 273 642 3085 1327 1297 2847* 5437 4773 52708 1519 4777 3470 4238 2011 2132 2238 2011 2136 2726 5469 1775 3086 19548 2679* 3427 2811 3032 4949 1362 2319 4131	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 479 2534 3833 5499 1808 3088 4881	1952 275# 1786 2160 1531 3478 4349 674 2535 4489 1819	2064 3081 2333 3121 3479 4370 678 26948 4528 2879	2540 3087 2810 3207 3492 682# 2762 3727	2669 5273 2847 3221 2765 3819	3329 2775 3901	3353 2781	3374 2788	3573	3592		SEQ v16v
GETHOR GOBLT GOOD GOTA GOOD GOTA GOOD GOTF H1 HALT HANGER HARDP HLIT HLITI HUNGGC HUNGGC HUNGGC HUNGGC HUNGGC INTR INITSE INI	1921## 1249# 12249	1956 1255 266# 1941 272 237 1784 1369# 1257 1297# 1237# 1237# 1237# 2810# 14552# 1475# 1237# 2810# 2910 1515 2983 29010 1516 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2010 1670 2983 2011 1948 2017 3082 2360 2521 3763 1639 2783 1648 3407 2958#	2961 3839 1947 273 642 3085 1327 1297 2847* 5437 4774 5373* 5270* 1519 270 4449 2231 2691 1692 313 2510 2726 5469 1775 3086 1954* 2679* 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2726 2727 2726 2727 2726 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727 2727	2515 4643 1950 274 1777 1475 1520 4816 3472 276# 4292 1715 4794 1818 3833 5499 1808 3088 4881	1952 275# 1786 2160 1531 3478 4349 674 2535 4489 1819	2064 3081 2333 3121 3479 4370 678 26948 4528 2879	2540 3087 2810 3207 3492 682# 2762 3727	2669 5273 2847 3221 2765 3819	3329 2775 3901	3353 2781	3374 2788	3573	3592		SEQ #16#

K377	1143#	2542	2671	2764	3836	4128	4138								SEG 0161
K411110 K65011	5054 5472	5058# 5475#													
K652@	1146#	3767 5350													
K67X1 K67X2A	1589#	5351													
K67X2B K67X3	1594# 1600#	5334 53 <b>52</b>													
K67X4	1608#	5353				*									
K67X5 K67X5A	1615# 5335	5354 5354#													
K67X58 K67X6	3828# 4645#	5336 5355													
K67X7	4652#	5356													
K7000 K7377	1145# 1144#	1657 1430	1663	3411	4525	4877	5430								
K74	1140		2040	2204	3950	3982	4072	4209	4228						
K7777 Keyswi	1133# - 1980	1459 4303	321Ø 4351	3394 5411#	5426	5427	4012	4207	7220						
KM10 KM40	1135# 1136#	4447 12 <b>5</b> 6	5338 1326	1776	3080	4444	5272								
KM6	1134#	5239		•,,,,	•										
KM74 Kretry	1137# 1150#	1329	2049	2051	2087	2167	2239	2244	2252	2254	2403	2411	2499	3937	
LAS	895# 2645	1298 2735	1347 2766	1476 2808	1778 2838	2072 4232	2103 4436	2151 4450	2158 4557	2180 4850	2273 5305	2318	2331	2575	
LASSWO	4439	4443	4446	4450#				•	••••						
LASSW3 Last	4232* 1018#	1503	1507	1508	3451	3516	3581	3600							
rcd	1027#	4122 1332	4132 2056	4483 2504	4517										
LCDA LCDB	1029# 1031#	2094	2258	2304											
LCDBL LCDBRE	4516# 4523	4560 4545#	4569												
LOCK	1070#	1457 1359	3948 2082	398Ø 2129	4070 2165	4207 2279	4226 2377	4627 2414	2443	2451	2457	2799	3549	4565	
LOG LOGBST	4195	4206	4213#	2127	2103	2213	2371	2414	2113	2431	245,	2137	3347	4363	
LOGCOD LOGCOM	4183# 2128	2174	2372	2831	4600	4618#	4621	4626	4630						
LOGGED LOGLSB	3939 4619	399Ø# 462Ø	4623	4628#											
LOGMSB	4624	4625	4629#												
LOGREF LOGRER	1407# 2413	2437	2457#												
LOGS LOGSAM	1407 4592	5591# 4597#													
LOGTAF LSB	4589 1216#	4593# 2672	2674	5136	5138	5142	5147	5161	5166	5339	5341				
LSBX1	3932	3933	3945	3946	3949#	7172	3147	3.0.	3.00	3337	3341				
LSBX2 Marest	3977 4810	3978 5561#	3981#												
MBYTE MCOLON	2636 5550#	5544#													
MCOMMA MCRLE	3065 1860	5515# 2654	3568	4289	4291	4796	4813	4918	5133	5523#					SEQ Ø162
MCRLF MCRLFS	1860 4939	2654 5206	3568 5524#	4289	4291	4796	4813	4918	5133	5523#					SEQ Ø162
MCRLF MCRLFS MDASH MDATAE	1860	2654		4289 5189	4291 5566#	4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MDASH MDATAE MDELET	1860 4939 4331 2625 3029	2654 5206 4335 5542# 5552#	5524# 4339			4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MDASH MDATAE MDELET MDESUM MDEVIC	1860 4939 4331 2625 3029 2794 5300	2654 5206 4335 5542# 5552# 4797 5519#	5524# 4339 5549#			4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MDASH MDATAE MDELET MDESUM	1860 4939 4331 2625 3029 2794	2654 5206 4335 5542# 5552# 4797	5524# 4339			4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MDASH MDASH MDELET MDESUM MDEVIC MDIREC MDISKE MDNSER	1860 4939 4331 2625 3029 2794 5300 1997 3055 2620	2654 5206 4335 5542# 5552# 4779 5519# 1999 5514# 5540#	5524# 4339 5549#			4796	4813	4918	5133	5523#					SEQ #162
MCRLF MCRLFS MDASH MDATAE MDELET MDESUM MDEVIC MDIREC MDIREC MDISKE MDNSER MDUMP MDUMPH	1860 4939 4331 2625 3029 2794 5300 1997 3055 2620 4764 5120	2654 5206 43342# 55597 5597 5599 # 55543#	5524# 4339 5549#			4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MDASH MDATAE MDELET MDESUM MDEVIC MDIREC MDIREC MDISKE MDNSER MDUMP MDUMPH MDWESE	1860 4939 4331 2625 3029 2794 5300 1997 3055 2620 4764 5120 2623	2654 52065 43542* 55597 55199 475199 55543 555631*	5524# 4339 5549#			4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MDASH MDATAE MDELET MDESUM MDEVIC MDIREC MDISKE MDNSER MDUMP MDUMPH MDWESE MEDDDI MEHEAD	1860 49331 2625 3029 2794 5997 3055 2624 5120 2623 4047	2654 52034 55577 55591 55591 55555 55564 55556 55555 5557 55555 5557 55564 55555 5557 8	5524# 4339 5549#			4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MDASH MDATAE MDELET MDESUM MDEVIC MDIREC MDIREC MDISKE MDUMP MDUMPH MDWBH MDWBH MDWBH MDWBH MEHEAD MEOT MESA	1860 49331 2625 3029 2794 5300 1995 3055 4764 51223 4048 4264 2472	26503455791944033455791994403345579195555647506470665555555555555555555555555	5524# 4339 5549#			4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MDASH MDASH MDELET MDESUM MDEVIC MDISKE MDNSER MDUMPH MDUMPH MDWESE MEDDDI MEHEAD MEOT	1860 4939 2625 3029 53007 53007 2620 4764 5120 4046 4046 4264	2654 52065 45557 45557 5559 4751 5556 4740 4740 4740 4740 4740 4740 4740 474	5524# 4339 5549#			4796	4813	4918	5133	5523\$					SEQ 0162
MCRLF MCRLFS MDASH MDATAE MDELET MDESUM MDEVIC MDIREC MDISKE MDUMP MDUMP MDUMPH MDWESE MEDDDI MEHEAD MEOT MESSA MESSAS MESSAS MFIRST	1860 4939 4331 2625 3029 2794 5300 1997 3055 2620 45120 2623 4046 4267 2843 474 62 3672 3673	2654 5206 4335 5542 4797 5519 1999 5514 5548 55538 5541 55748 55308 5526 1018 3673 3673	5524# 4339 5549# 2001#	5189	5566#	4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MDASH MDAIAE MDELET MDESUM MDEVIC MDIREC MDISER MDUMP MDUMP MDUMPH MDWESE MEDDDI MEHEAD MEOT MESPAS MESSAG MFIRST MGB MHOME	1869 4331 2625 3029 2794 5300 1997 3055 2620 4764 5120 2623 4048 4267 2843 472 3594 4360	2654 4335 5542# 4797 15919 5514# 55540# 55540# 55541# 55541# 55740# 5530# 5541# 5530# 5530# 5530# 5536# 3673 4394	5524# 4339 5549# 2001#	5189	5566#	4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MDASH MDAIAE MDELET MDESUM MDEVIC MDISKE MDNSER MDUMP MDUMPH MDWESE MEDDDI MEHEAD MEOI MESPAS MESPAS MESPAS MFIRST MGB MHUNGP MHUNGP MHUNGP MHUNGP MHUNGP MHUNGP MHUNGP MHUNGP	1869 4331 2629 2794 53029 2794 5305 1997 3055 2620 4764 5120 2623 4048 4267 2843 472 3672 3672 3672 3672 3672 3672 3672 36	2654 4335 5542# 4797 5519# 1999 5514# 5553# 5541# 5536# 5536# 55454 4394 4394 55358	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MCASH MDATAE MDELET MDESUM MDEVIC MDIREC MDISKE MDNSER MDUMP MDWESE MEDUMP MDWESE MEDDAT MESPAS MESSAG MESSAG MFIRST MGB MHUNGP HID MIDENT	1869 4939 2629 2794 53029 2794 53029 4764 5122 4764 5122 4764 5162 3672 3672 3672 369 3594 4641 4369 3596 3693 3593	2654 5206 4335 5542# 4797 5519# 1999 55140# 55540# 5553# 5541# 55740# 5530# 5530# 5530# 5530# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545# 5545	5524# 4339 5549# 2001#	5189	5566#	4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MCASH MDATAE MDELET MDESUM MDEVIC MDIREC MDISKE MDUMP MDWSE MDUMP MDWESE MEDDDI MEHEAD MEOT MESPAS MESSAS MESSAS MESSAS MHIRST MGB MHUNGP MID	1869 4939 2794 53029 2794 53029 2794 5302 4764 5120 2623 4048 4267 2843 4267 2843 4267 2843 4267 2843 4267 2843 4267 2843 4267 4860 5369 5369 4860 5369 4860 5369 4860 5369 4860 5369 4860 5369 5369 5369 5369 5369 5369 5369 5369	2654 4335 5542# 4797 5519# 1999 55140# 55540# 55541# 55740# 5530# 5536# 5536# 5536# 5536# 5536# 5529# 5529# 5529# 55562# 55562#	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523#					SEQ 0162
MCRLF MCRLFS MCRLFS MCRLFS MDASH MDAIAE MDESUM MDEVIC MDIREC MDIREC MDISKE MDUMP MDWESE MEDDDI MEHEAD MEOT MESPAS	1869 4939 2794 2794 53029 2794 5305 1997 3055 2620 4764 5120 2623 4048 4267 2843 472 3672 3672 3672 3672 3672 3672 4360 5369 1803 4818 4784 4307 4779	2654 4335 5542# 4797 1999 55140# 55538 5541# 55541# 5530# 5530# 5536# 4394 5536# 5535# 101# 3673 5536# 5535# 1058 5535# 1058 5535# 1058 1058 1058 1058 1058 1058 1058 1058	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523#					SEQ #162
MCRLF MCRLFS MCRLFS MDASH MDATAE MDESUM MDEVIC MDISKE MDUMP MDUMPH MDUMPSE MEDDAD MEOT MESSA MESSAG MFIRST MGB MHUMGP MID	1869 4931 2625 2794 53029 2794 53029 2794 5302 4764 5122 4764 5122 4048 4267 2843 4762 3672 42641 4369 3594 4784 4784 4784 4784 4784 4784 4784 47	2654 5206 4335 5542# 4797 55199 55140# 5553# 5563# 5553# 5540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55560# 55560# 55560# 55560# 55560# 55560#	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523#					SEQ #162
MCRLF MCRLFS MCRLFS MCRLFS MDASA MDASA MDELET MDESUM MDEVIC MDISKE MDUMP MDWSE MDUMP MDWESE MEDDDI MEHEAD MEOT MESPAS MESSAS MESSAS MESSAS MFIRST MGB MHUNGP MID MID MID MID MID MINTE MINTE MKEY MLAST MLEFT	1869 4939 2794 53029 2794 1997 3055 5120 4764 2623 4046 4267 2843 4267 2843 4267 2843 4267 2843 4267 2843 4267 4369 3594 4818 4474 4301 4772 4843 4805	2654 4335 5542# 4797 5519# 1999 55140# 55540# 55541# 55541# 55740# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536#	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523#					SEQ #162
MCRLF MCRLFS MCRLFS MCRLFS MDASA MDASA MDELET MDESUM MDEVIC MDIREC MDIREC MDIREC MDISER MDUMP MDWESE MEDDDI MEHEAD MESA MESPAS MESPAS MESPAS MFIRST MGB MHUNGP MHUNGP MHUNGP MHUNGP MIDENT MIDE	1869 4939 2794 3029 2794 53029 2794 5302 4764 5120 2623 4048 4267 2843 472 3594 4367 2641 4369 3594 4367 2841 4369 3594 4367 4369 4369 4369 4369 4369 4369 4369 4369	2654 4335 5542# 4797 5519# 55540# 55540# 55541# 55541# 55541# 55740# 5530# 5530# 5536# 5536# 5536# 5535# 5536# 5536# 5535# 5536# 5535# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 553	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523\$					SEQ #162
MCRLF MCRLFS MCRLFS MCRLFS MDASH MDATAE MDESUM MDEVIC MDIVEC MOUNT MEND MEND MEND MEND MEND MEND MEND MID MID MID MID MID MID MID MID MID MI	1869 4931 2622 2794 53029 2794 53029 4764 5120 4764 5120 4267 2843 4762 3672 42641 4369 3598 4789 4818 4784 4789 4818 4789 4818 4789	2654 5206 4335 5542# 4797 55199 55140# 55540# 55543# 55543# 55543# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545#	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523\$					SEQ #162
MCRLF MCRLFS MCRLFS MCRLFS MDASH MDATAE MDESUM MDEVIC MDIREC MDISKE MDUMP MDWESE MDUMP MDWESE MEDDDI MEHEAD MEOT MESSA MESSAS MESSAS MESSAS MFIRST MGB MHUNGP HID MINTT MINTT MINTT MINTT MLEFTP MLOGOV MMDATA MMDNS MMERRO MMPARI	1869 4939 2629 2794 1997 3055 4764 5120 4764 5120 4764 4267 2843 4048 4267 2843 4769 3594 4818 4301 4779 4818 4769 4818 4769 4818 4769 4818 4769 4769 4769 4769 4769 4769 4769 4769	2654 5206 4335 5542# 4797 55199 55140# 55538 55541# 55548 55538 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55545# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55574# 55774#	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523\$					SEQ #162
MCRLF MCRLFS MCRLFS MCRLFS MCRLFS MDASA MDALET MDESUM MDIREC MDIREC MDIREC MDISER MDUMP MDWESE MEDDDI MEHEAD MEOT MESPAS MESPAS MESPAS MESPAS MFIRST MGB MHUNGP MIDENT MID	1869 4939 2794 1997 3029 2794 1997 3055 4764 2623 4048 4267 2843 4267 2843 4267 2843 4267 2843 4267 2843 4267 2843 4267 2843 4267 2843 4267 4369 4369 4369 4369 4369 4369 4369 4369	2654 4335 5242 4737 5552 4797 55199 55140 55540 55541 55541 55530 5541 55530 5541 55530 5541 55530 5541 55530 5541 55530 5541 55530 55530 55530 55530 55530 55530 55530 55530 55530 55530 55530 55530 55530 55530 55530 55530	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523\$					SEQ #162
MCRLF MCRLFS MCRLFS MCRLFS MDASH MDATAE MDESUM MDEVIC MDIREC MDIREC MDISKER MDUMP MDWESE MEDDAD MEOT MESSA MESSAS MESSAS MESSAS MESPAS MHUNGP MIDUMP MINTER MESTP MLAST MLAST MESTP MMDATS MMERRO MMPARI MMSEEK	1869 4939 2629 2794 1997 3055 4764 5162 4764 5162 4764 4764 4767 2843 4762 3672 4843 4762 3672 4843 4762 3672 4843 4769 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4789 4818 4818 4818 4818 4818 4818 4818 48	2654 5204 5204 4335 5542* 4797 55199 55140* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55540* 55570* 55570* 5570* 5570* 5570*	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523\$					SEQ #162
MCRLF MCRLFS MCRLFS MCRLFS MDASH MDATAE MDESUM MDEVIC MDIREC MDISKE MDUMP MDWESE MDUMP MDWESE MEDDDI MEHEAD MEOT MESSA MESSAS MESSAS MESSAS MFIRST MGB MHUNGP HID MINTE	1869 4939 2794 1997 3029 2794 1997 3055 4764 2623 4048 4267 2843 4762 3672 3697 3594 4818 4301 4779 4818 4769 4818 4769 4818 4769 4818 4769 4818 4769 4818 4769 4818 4769 4818 4769 4818 4769 4818 4769 4818 4769 4769 4769 4769 4769 4769 4769 4769	2654 5206 4335 5542# 4797 5519# 4797 5519# 55540# 55540# 55541# 55540# 55545# 5563# 5563# 5529# 5532# 55562# 55562# 5572# 5560# 5572# 5560# 5572# 5560# 5572# 5560# 5572# 5560# 5574# 5560# 5574# 5560# 5574# 5560# 5574# 5560# 5574# 5560# 5574# 5560# 5574# 5560# 5574# 5560# 5574# 5560# 5574# 5560# 5574# 5560# 5574# 5560# 5574# 5560#	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523\$					SEQ #162
MCRLF MCRLFS MCRLFS MCRLFS MCRLFS MDASA MDASA MDELET MDESUM MDIREC MESA MESPAS MESPAS MESSAG MFIRST MGB MHUNGP MIDENT MID	1869 4939 2794 1997 3029 2794 1997 3055 4764 2623 4048 4267 2843 4267 2843 4267 2843 4267 2843 4267 2843 4267 2843 4267 2843 4369 4369 4369 4369 4369 4369 4369 43	2654 5206 4335 5542# 4797 55199 55140# 55530# 55541# 55730# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 5536# 55569# 5573# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5560# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660# 5660#	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523#					SEG #162
MCRLF MCRLFS MCRLFS MCRLFS MDASH MDASH MDASH MDESUM MDEVIC MDISKE MDUMP MDWSE MDUMP MDWSE MEDDAD MESSA MESSAS MESSAS MESSAS MESPAS MESP	1869 4331 2622 2794 1397 3025 4764 5120 4764 5122 4764 5122 4764 5122 4764 4267 2843 4762 3672 4848 4784 4787 4889 4818 4789 4891 4779 4992 4996 4997 4992 4996 4997 4991 5528 3062	2654 5206 4335 5542# 4797 55198 1999 55140# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55545# 55562# 55562# 55564# 55570# 55571# 5567# 5567# 5567# 5567# 5567# 5567#	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523\$					SEG #162
MCRLF MCRLFS MCRLFS MCRLFS MDASH MDATAE MDESUM MDESUM MDEVIC MDISKE MDUMP MDWESE MDUMP MDWESE MEDDDI MEHEAD MEOT MESSA MESSAS MESSAS MESSAS MINTER MHUNGP MINTT MINTER MHUNGP MINTT MINTER MESSA MESPAS MMEREAD MINTER MINT	1869 4939 2794 53029 2794 53029 2794 51997 3055 5120 4764 5123 4048 4267 2843 4762 3672 3697 3596 4818 4779 3696 4818 4769 4996 4996 4997 4992 4996 4996 4997 4992 4996 4991 4996 4991 4996 4996 4991 4996 4991 4996 4996	2654 5206 4335 5542# 4797 5519# 4797 5519# 55540# 55540# 55540# 55540# 55540# 55540# 55545# 55545# 55545# 55545# 55560# 55560# 55572# 5560# 5572# 5560# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 55745# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5574# 5754# 5754# 5754# 5754#	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523\$					SEG #162
MCRLF MCRLFS MCRLFS MCRLFS MCRLFS MCRLFS MDASA MDELET MDESUM MDIREC MESPAS MESPAS MESPAS MESPAS MESPAS MESPAS MHID MID MID MID MID MINIT MIRE MID MINIT MID MINIT MIRE MID MINIT MID MINIT MID MINIT MINIT MID MINIT MINIT MID MINIT	1869 4931 2622 2794 53029 2794 51997 3055 5262 4764 5122 4764 5122 4764 4267 2843 4767 2843 4767 4818 4301 4769 4301 4769 4769 4769 4769 4769 4769 4769 4769	2654 4335 5242 4335 5542 4797 55199 55140 55540 55540 55541 55540 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541	5524# 4339 5549# 2001# 3675 5531# 4762	5189 3676	5566#	4796	4813	4918	5133	5523#					SEG #162
MCRLF MCRLFS MCRLFS MCRLFS MCRLFS MCRLFS MDASA MDASA MDELET MDESUM MDIREC MCRES MESSAS MESSAS MESSAS MFIR MFIR MFIR MIDDENT MIDDENT MIDDENT MIDDENT MIDDENT MIDDENT MINIT MIREC MINIT MIREC MINIT MIREC MINIT MIREC MINIT MIREC MINIT MINIT MIREC MINIT MINIT MIREC MINIT MI	1869 4939 4731 2625 2794 4764 5120 4764 5120 4764 4267 2843 4048 4267 2843 4048 4267 2843 4784 4377 4818 4779 4896 4897 4996 4997 4996 4997 4996 4997 4996 4997 4996 4997 4996 4997 4996 4997 5528 3062 2149 3585	2654 4335 5542# 4797 5552# 4797 5519# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 5540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55540# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 55640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640# 56640#	5524# 4339 5549# 2001# 3675 5531#	5189 3676	5566#	4796	4813	4918	5133	5523#					SEG #162
MCRLF MCRLFS MCRLFS MCRLFS MCRLFS MCRLFS MDASA MDELET MDESUM MDEVIC MDISKE MDISKE MDISKE MDUMP MDWESE MEDAD MEDAD MEDAD MEDAD MEDAD MEDAD MEDAD MESSAS MFIRST MGB MFIRST MGB MHUNGP MINUT	1869 4931 2622 2794 3029 2794 3052 4764 5120 4623 4764 4267 2843 4762 3672 2647 4816 4779 5424 4816 4779 5424 4869 4893 4818 4784 4789 4896 4991 4996 4997 4996 4997 4996 35531 52978 3062 22969 3586	2654 4335 5242 4335 5542 4797 55199 55140 55540 55540 55541 55540 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541 55541	5524# 4339 5549# 2001# 3675 5531# 4762	3676 5578#	5566#	4796	4813	4918	5133	5523#					SEQ #162

MOSAVE	240	405	645	722*											SEQ (
MREAD	2328	2606	5539#												25/4 6
MREFRE	1400	5522#	000.												
MRESTA	4802	5559#													
MRS	2981	5517#													
MRUNTI	5558#														
MSB	1217#	5144	5163												
MSDNUN	2147	3253#													
MSDRIV	1815	552Ø# 5565#													
MSLASH MSNDER	4983 2330	4995	5546#												
MSPACE	5195	5525#	50.0%												
MSTEST	1467	5521#													
MSUMCH	2780	5547#													
MTESTP	3564	5557#													
MUDDDI	4049	5575#													
MUNIT	3024	4932	5551#												
MUNKNO	3896	5577#													
MWORD	2628	2639	5543#												
MWRITE MWRSRD	2325	2603	5538#												
MX	4977 95	5564# 2716	2828	2853#											
NEXT	2908#	2918	2020	2033#											
NEXTSE	3490#	3520	3531												
NOHEAD	4259	4276#													
NOINFO	3021	3046#													
NOPRIN	4235	4850#													
NOSER	2149#	3888													
NOSET	85	90#													
NOTCL8 NOTEST	5493 1417	5507# 1466#	3172												
NOTICK	3251	4413	4840#												
NOTO	5385	5396#	10101												
NRETUR	1862#														
NSTAND	3572	3576	3580	3585#											
NULINE	3690	3697#													
NUREAD	2142	2189#	2197												
NUWORD	3673#	3679	1570	1633	3422	2404	3220	2240	2224	2254	2222	7301	>===	****	
OD Okretu	1Ø15# 3889	1526 4023#	1530	1533	3123	3196	3232	3319	3331	3351	3372	3376	3570	3588	
OKSTAR	3498	3504#													
ONECRL	4268	4281	4287	4290#											
OTHERR	4545	4551	4556	4565#	4567										
OUTPUT .	3674	3678	3681#												
PACKDO	5495	5501#													
PAGE1	3527#	_													
PASCNT	59	97#													
PASMES Passes	1852# 98	2836 1404	2713	2830	3248	5595#	5601								
PASSIN	1148#	2824	2829	3120	3955	4780	2001								
PASSRE	1640	2717	2838#		•										
PAT2	1961	1970#													
PAT3	1962	1971#													
PAT4	1963	1972#													<b>4</b> 50
PAT4 PAT5	1963 1964	1972#													SEQ 6
PAT4 PAT5 PAT6	1963 1964 1965	1972# 1973# 1974#													SEQ 6
PAT5 PAT6 PATR1	1964 1965 1871	1973#	1901												SEQ 6
PAT5 PAT6 PATR1 PATR2	1964 1965 1871 1873	1973# 1974# 1875# 1876#	1903												SEQ 4
PAT5 PAT6 PATR1 PATR2 PATSAV	1964 1965 1871 1873 1869#	1973# 1974# 1875# 1876# 1874	1903 2848												SEQ 6
PAT5 PAT6 PATR1 PATR2 PATSAV PATSET	1964 1965 1871 1873 1869# 1882#	1973# 1974# 1875# 1876# 1874 1905	1903 2848 2055	2501											SEQ 4
PAT5 PAT6 PATR1 PATR2 PATSAV PATSET PATTER	1964 1965 1871 1873 1869# 1882# 1887	1973# 1974# 1875# 1876# 1874 1905 1889	1903 2848 2055 1959#	2501											SEQ (
PATS PAT6 PATR1 PATR2 PATSAV PATSET PATTER PCLF	1964 1965 1871 1873 1869# 1882# 1887	1973# 1974# 1875# 1876# 1874 1905	1903 2848 2055	2501											SEQ 9
PAT5 PAT6 PATR1 PATR2 PATSAV PATSET PATTER	1964 1965 1871 1873 1869# 1882# 1887 24# 720#	1973# 1974# 1875# 1876# 1874 1905 1989 708	1903 2848 2055 1959# 713		5668#	5682									SEQ 6
PATS PAT6 PATR1 PATR2 PATSAV PATSET PATTLR PCLF PCSAVE PERROR PHOME	1964 1965 1871 1873 1869# 1882# 1887	1973# 1974# 1875# 1876# 1874 1905 1889	1903 2848 2055 1959#	25 <b>0</b> 1	5668#	5682									SEQ 4
PATS PAT6 PATR1 PATR2 PATSAV PATSET PATTER PCLF PCSAVE PERROR PHOME PI	1964 1965 1871 1873 1869# 1882# 1887 24# 720# 1360 4371 922	1973# 1974# 1875# 1876# 1876 1905 1989 708 2083 4393# 3784#	1903 2848 2055 1959# 713		5668#	5682									SEQ 6
PATS PAT6 PATR1 PATR2 PATSAV PATSET PATTER PCLF PCSAVE PERROR PHOME PI PICLSK	1964 1965 1871 1873 1869# 1882# 1887 24# 720# 1360 4371 922 3791	1973# 1974# 1876# 1876# 1905 1989 708 2083 4393# 3784# 3809#	1903 2848 2055 1959# 713	4566											SEQ 4
PATS PAT6 PATR1 PATR2 PATSAV PATSET PATTER PCLF PCSAVE PERROR PHOME PI PICLSK PIELSK PIELSK	1964 1965 1871 1873 1869# 1882* 1887 24# 720# 1360 4371 922 3791 3687	1973# 1974# 1875# 1876# 1878 1989 708 2083 4393# 3784# 3723	1903 2848 2055 1959* 713 2800	<b>45</b> 66 3 <b>9</b> 11	5668# 3898#	5682 487ø	5363	5392	5407						SEQ 6
PATS PAT6 PATR1 PATR2 PATSAV PATSET PATTLR PCLF PCSAVE PERROR PHOME P1 PTCLSK PIEXIT PNTBUF	1964 1965 1871 1873 1869# 1882# 1887 24# 720# 1360 4371 922 3791 3697	1973# 1974# 1876# 1876 1874 1905 1989 708 2083 3784# 3809# 3701	1903 2848 2055 1959* 713 2800	4566			5363	5392	5407						SEQ 6
PATS PATG PATR1 PATR2 PATSAV PATSET PATTLR PCLF PCSAVE PERMOR PHOME PI TCLLSK PLEXIT PMTBUF PMTEXT	1964 1965 1871 1873 1869# 1887 24# 720# 1360 4371 922 3791 3687 3665	1973# 1974# 1876# 1876# 18765 1989 708 2083# 37809 3723 3717	1903 2848 2055 1959* 713 2800 3800 707 3726*	<b>45</b> 66 3 <b>9</b> 11			5363		5407						SEQ 6
PATS PAT6 PATR1 PATR2 PATSAV PATSET PATTLR PCLF PCSAVE PERROR PHOME P1 PTCLSK PIEXIT PNTBUF	1964 1965 1871 1873 18692 1887 24# 720# 1360 4371 922 3791 697 3665 1268	1973## 1974## 18764 18764 19959 1708 2083## 2083## 37809 377017 1800#	1903 2848 2055 1959* 713 2800	<b>45</b> 66 3 <b>9</b> 11			5363		5487						SEQ 6
PATS PAT6 PATR1 PATR2 PATSAV PATSET PATTLE PCSAVE PERROR PHOME PI PTCLSK PIEXIT PHTBUF PHTBUF PHTEXT PHTID PHTNOP POLL	1964 1965 1871 1873 1869# 1882# 1887 720# 1360 4371 922 3791 3665 1268# 4876	19774## 19774## 187745# 198745 19888 243989 243989 377189 3877178 48708	1903 2848 2055 1959* 713 2800 3800 707 3726* 1809	4566 3811 716#			5363		5407						SEQ 6
PATS PAT6 PATR1 PATR2 PATSAV PATSET PATTER PCLF PCSAVE PERROR PHOME PI PTCLSK PIEXIT PNTBUF PNTBUF PNTEXT PNTID PNTNOP	1964 1965 1871 1873 1869# 1882# 1882# 124# 726# 1360 4371 3687 3697 3668 4876# 2906	1973### 197745# 187645 18764 19898 2437899 2437899 2437893 377893 37717# 4879	1903 2848 2055 1959 713 2800 3800 707 3726# 1809	4566 3811 716#	3898#		5363		5407 2255	2500	2732	2739	3987	4554	SEQ 6
PATS PATS PATS PATR1 PATR2 PATSAV PATSET PATTER PCLF PCSAVE PERROR PHOME P1 PTCLSK PIEXIT PHTBUF PHTBUF PMTEXT PNTID PNTNOP POLL PRETRY	1964 1965 1871 1873 1869# 1882# 720# 1364 1367 922 3791 3685 1268 42906 1174# 4561	1973# 1974# 1975# 1876# 1876# 1985 1989 2083 4393# 3784# 3784# 3787 3717 1800# 4800# 4800# 1330	1903 2848 2055 1959# 713 2800 3800 707 3726# 1809 2910 1344	4566 3811 716# 2911 1351	3898# 2985# 2052	<b>487</b> Ø		٠		2500	2732	2739	3987	4554	SEQ 6
PATS PAT6 PATR1 PATR2 PATSAV PATSET PATTLE PCSAVE PERROR PHOME PI PTCLSK PIEXIT PHTBUF PHTBUF PHTEXT PHTID PHTNOP POLL	1964 1965 1871 1873 1869# 1882# 124# 720# 1360 4371 3791 3697 3667 3667 3668 4876# 2906 4876# 48764 4561	1973# 1974# 1975# 1876# 1876# 1905 1989 708 2083# 3794# 3809# 3723 701 3717# 4879 2908 4879 2908 4393#	1903 2848 20455 1959* 713 2800 707 3706* 1809 2910 1344	4566  3811 716#  2911 1351 1466	3898# 2985# 2052 1802	487ø 2069 1804	2076 1814	2088 1859	2255 1998	2156	2324	2327	3 <b>98</b> 7 2329	455 <i>4</i> 26 <i>0</i> 2	SEQ 6
PATS PATS PATS PATR1 PATR2 PATSAV PATSET PATTER PCLF PCSAVE PERROR PHOME P1 PTCLSK PIEXIT PHTBUF PHTBUF PMTEXT PNTID PNTNOP POLL PRETRY	1964 1965 1967 1871 1873 1882 1882 1887 7264 4371 9721 3697 3665 1268 2906 1174 4561 1074 10745	1973# 1974# 1876# 1876# 1876 1995 1995 1989 2083 4393# 3784# 3723 7723 7717 1880# 2908 1330 1399 2619	1903 2848 2055 1959 713 2800 3800 707 37268 1809 2910 1344 1401 2622	4566 3811 716# 2911 1351 1466 2624	3898# 2985# 2052 1802 2638	487# 2069 1804 2640	2076 1814 2653	2088 1859 2710	2255 1998 2714	2156 2779	2324 2784	2327 2793	2329 2842	2602 2968	SEQ 6
PATS PATS PATS PATR1 PATR2 PATSAV PATSET PATTER PCLF PCSAVE PERROR PHOME P1 PTCLSK PIEXIT PHTBUF PHTBUF PMTEXT PNTID PNTNOP POLL PRETRY	1964 1971 1871 1873 1882 1882 1882 1887 24# 7200 4371 3697 3697 3697 3697 3697 4876 4876 4876 4876 4876 4876 4876 487	1973# 1974# 1975# 1876# 1876 1976 1985 1989 708 2083 4393# 3809# 3723 701 3717 1800# 4879 1330 1330	1903 2848 2055 1959 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980	4566  3811 716#  2911 1351 1466 2624 3023	3898# 2985# 2052 1802 2638 3028	4870 2069 1804 2640 3054	2076 1814 2653 3061	2088 1859 2710 3964	2255 1998 2714 3563	2156 2779 3567	2324 2784 3585	2327 2793 3589	2329 2842 3593	2602 2968 3597	SEQ 6
PATS PATS PATS PATR1 PATR2 PATSAV PATSET PATTER PCLF PCSAVE PERROR PHOME P1 PTCLSK PIEXIT PHTBUF PHTBUF PMTEXT PNTID PNTNOP POLL PRETRY	1964 1965 1871 1873 1869# 1882# 1882# 1360 4371 3697 3697 3668 4876# 2906 1174# 4561 12605 2970 3895	1973# 1974# 1975# 1876# 1876 1905 1989 708 2083 4393# 3723 701 3717 1800# 4879 2908 1330 1399 2619 2977 4266	1903 2848 2055 1955 7513 2800 3800 707 3726 1809 2910 1344 1401 2622 2988	4566  3811 716#  2911 1351 1466 2624 3023 4290	3898# 2985# 2052 1802 2638 3028 4300	4970 2069 1804 2640 3054 4330	2076 1814 2653 3061 4334	2088 1859 2710 3964 4338	2255 1998 2714 3563 4359	2156 2779 3567 4393	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PAT6 PATR1 PATR2 PATR2 PATSET PATTER PCLF PCSAVE PERROR PHOME PI PTCLSK PIEXIT PNTBUF PNTEXT PNTID PNTNOP POLL PRETRY	1964 1967 1871 1873 1869 1882 1882 720 1360 4371 3791 3697 3697 3697 3697 3697 4876 1174 4561 11074 4561 12605 2970 3895 4783 4786	1973# 1974# 1975# 1876# 1876 1995 1989 708 2083# 3784# 3809# 3723 701 3717 2908 4879 2908 1330 1399 2619 2619 4795 4982	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4801 5119	4566  3811 716#  2911 1351 1466 2624 3023	3898# 2985# 2052 1802 2638 3028	4870 2069 1804 2640 3054	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585	2327 2793 3589	2329 2842 3593	2602 2968 3597	SEQ 6
PATS PATS PATR1 PATR2 PATSAV PATSET PATTER PCLF PCSAVE PERROR PHOME PI PICLSK PIEXIT PNTBUF PNTBUF PNTEXT PNTID PNTID PNTID PNTID PNTID PRETRY PRINT	1964 1965 1867 1873 1889 1882 1887 7264 4371 3497 3697 3697 3697 3697 3697 3697 3697 36	1973# 1974# 1876# 1876# 1876 1985 1989 2083 3784# 3784# 3723 701 3717 1800# 4809# 4809# 1330 1390 2977 4266	1903 2848 2055 1955# 713 2800 3800 707 3726# 1809 2910 1344 1401 2622 2980 4288 4288	4566 3811 716# 2911 1351 1466 2624 3023 4290 4804	3898# 2985# 2052 1882 2638 3028 4300 4809	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334	2088 1859 2710 3964 4338	2255 1998 2714 3563 4359	2156 2779 3567 4393	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PAT6 PATR1 PATR2 PATR2 PATSAY PATSET PATTHR PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PNTBUF PNTBUF PNTID PNTID PNTNOP POLL PRETRY PRINT PRINT PRINT PRINT PSIE	1964 1967 1871 1873 1882 1882 7200 4371 3791 3697 3697 3697 3668 4876 4876 4876 4876 4876 4876 4876 4	1973# 1974# 1975# 1876# 1876 1995 1989 708 2083# 3784# 3809# 3723 701 3717 2908 4879 2908 1330 1399 2619 2619 4795 4982	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4801 5119	4566 3811 7168 2911 1351 1466 2624 3023 4290 4800 45132	3898# 2985# 2052 1882 2638 3028 4300 4809	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATR1 PATR2 PATR2 PATRAY PATSET PATTER PCLF PCSAVE PERROR PHOME PI PICLSK PIEXIT PNTBUF PNTBUF PNTBUF PNTBUF PNTBUF PNTBUF PNTRY PNTID PRETRY PRINT PRINT PRINT PSIE PSKE	1964 1965 1871 1873 1889 1882 1887 720 4371 3791 3697 3665 127 4561 1076 4561 4561 4561 4561 4761 4761 4761 4775 4783 4976 4783 4976 4783 4976 4783 4976 4783 4783 4783 4783 4783 4783 4783 4783	1973# 1974# 1975# 1876# 1876 1905 1989 708 2083 4393# 3783# 3809# 3723 701 3717 1800# 4879 2908 1330 1399 2497 2497 2497 2497 2497 2497 2497 24	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4801 5119	4566 3811 7168 2911 1351 1466 2624 3023 4290 4800 45132	3898# 2985# 2052 1882 2638 3028 4300 4809	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PAT6 PATR1 PATR2 PATR2 PATSAY PATSET PATTLER PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PHTBUF PHTEXT PNTID PNTNOP PHOLL PRETRY PRINT PRINT PRINT PRINT PRINT PSIE PSKE PSKF	19645 19713 18713 18824 18827 7287 36913 3791 36913 4876 4876 4876 4876 4876 4876 4876 4876	1973# 1973# 1975# 1876# 1876# 1905 1989 708 2083 4393# 3809# 3723 701 3717 1800# 4879 2619 2619 2619 2619 4795 4795 4795 4795 4795 4795 4795 479	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4801 5119	4566 3811 7168 2911 1351 1466 2624 3023 4290 4800 45132	3898# 2985# 2052 1882 2638 3028 4300 4809	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PAT6 PATR1 PATR2 PATR2 PATSAY PATSET PATTER PCLF PCSAVE PERROR PHOME PI PTCLSK PIEXIT PNTBUF PNTEXT PNTBUF PNTNOP POLL PRETRY PRINT PRINTD PSIE PSKE PSKF PST8	1964 1967 1871 1873 1882 1882 1882 124 1369 1369 13697 3697 3668 48764 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 45761 4	1973# 1973# 1975# 1876# 1876 1995 1989 708 2083 4393# 3723 701 3717 290# 4879 290# 1330 1399 2619 24766 4795 4985 1373	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2988 4801 5119 3036	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788	3898# 2985# 2052 1802 2638 3020 4809 5189	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PAT6 PATR1 PATR2 PATR2 PATSAY PATSET PATTLER PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PHTBUF PHTEXT PNTID PNTNOP PHOLL PRETRY PRINT PRINT PRINT PRINT PRINT PSIE PSKE PSKF	19645 19713 18713 18824 18827 7287 36913 3791 36913 4876 4876 4876 4876 4876 4876 4876 4876	1973# 1973# 1975# 1876# 1876# 1905 1989 708 2083 4393# 3809# 3723 701 3717 1800# 4879 26199 26199 26199 26199 4982 1373	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2988 4801 5119 3036	4566 3811 7168 2911 1351 1466 2624 3023 4290 4800 45132	3898# 2985# 2052 1882 2638 3028 4300 4809	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATS PATR1 PATR2 PATR2 PATR3AV PATSET POSAVE PERROR PHOME PI PICLSK PIEXIT PATBUF PATEXT P	1964 1965 1867 1873 18869 1887 7200 4371 3791 3697 36668 4876 11761 4561 4576 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4783 4783 4783 4783 4783 4783 4783	1973# 1974# 1975# 1876# 1876# 1995 1989 2083 4393# 3784# 3723 7723 7717 1800# 4290# 1330 1399 2977 4266 4795 4982 1373 711 708	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2988 4801 5119 3036	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788	3898# 2985# 2052 1802 2638 3020 4809 5189	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PAT6 PATR1 PATR2 PATR2 PATSAY PATSET PATTHER PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PHTBUF PHTEXT PHTID PHTNTD PNINOP POLL PRETRY PRINT PRINT PRINT PRINT PRINT PSIE PSKE PSKF PSTB PTSTOR Q460D Q400D	19645 19671 19713 18692 18887 7287 18887 73661 43712 37987 36666 48762 48762 48764 48764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 49764 4	1973# 1973# 1975# 1876# 1876# 1976# 1985 1989 708 2083# 3783# 37809# 3723 3721 3717 1807# 4879 26197 4265 4795 1373 1373 1708 1708 1708 1708 1708 1708 1708 1708	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2988 4801 5119 3036	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788	2985# 2985# 2052 1802 2638 3028 4300 4809 5188	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PAT6 PATR1 PATR2 PATR2 PATSAY PATSET PATTER PCLF PCSAVE PERROR PHOME PI PTCLSK PEXIT PNTBUF PNTEXT PNTBUF PNTNOP POLL PRETRY PRINT PRINTD PSIE PSKE PSKF PSTOR Q460D Q460D Q400D Q600D	1964 1967 1871 1873 1882 1882 1882 124 1369 1369 1369 1369 1369 1369 1369 1369	1973# 1973# 1975# 1876# 1876 1995 1989 708 2083 4393# 3784# 3809# 3723 701 3717 2908 4879 2908 1330 1399 2619 2619 2723 4982 1373 711 708 1708 1708 1708 1708 1708 1708 1	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2988 4801 5119 3036	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788	3898# 2985# 2052 1802 2638 3028 4300 4809 5189	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATS PATR1 PATR2 PATSAV PATSET PATSET PATTER PCLF PCSAVE PERROR PHOME PI PICLSK PIEXIT PHTBUF PHTEXT PHTBUF PHTEXT PHTID PRINT PRINT PRINT PRINT PRINT PRINT PSIE PSKE PSKF PSTST Q461D Q40D Q40D Q40D Q40D Q40D Q40D Q40D Q40	1964 1967 1867 1887 1887 7269 4371 3437 3437 3437 3437 3437 3437 3437	1973# 1974# 1975# 1876# 1876# 1876# 1876# 1905 1989 708 2083 4393# 3784# 3723 7717 1800# 4879 2908 1330 1399 2977 4266 4795 4982 1377 711 708 3312 3274# 3313 3274# 33174 3315#	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2988 4801 5119 3036	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788	2985# 2985# 2052 1802 2638 3028 4300 4809 5188	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PAT6 PATR1 PATR2 PATR2 PATR3AV PATSET PATTHR PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PNTID PNTINT PNTID PNTINT PRETRY PRINT PRINT PRINT PRINT PSIE PSKE PSKE PSKE PSTB PTSTOR C461D C460D C40D C40D C40D C40D C40D C40D C40D C4	1964 1964 1971 1873 1882 1882 7200 4371 3791 3695 3696 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876	1973# 1973# 1975# 1876# 1876# 1905 1989 708 2083# 3793# 3784* 3809# 3721 3717# 4879 290# 1330 1399 2619 4266 4795 4982 1373 711 708 1708 1708 1313 3321 708 1313 3327# 4987#	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4281 4801 5119 3036	3811 7168 2911 1351 1466 2624 3023 4290 4804 5132 4788	2985# 2985# 2052 1802 2638 3028 4300 4809 5188	2069 1804 2640 3054 4330 4812 5194	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3064 4338 4844 5299	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATS PATS PATR1 PATR2 PATR2 PATSAV PATSET PATTER PCLF PCSAVE PERROR PHOME PI PICLSK PIEXIT PNTBUF PNTBUF PNTBUF PNTBUF PNTEXT PNTID PNINOP POLL PRETRY PRINT PRINT PRINT PRINT PSIE PSKE PSKF PSTB PTSTOR Q460D Q40D Q40D Q40D Q40D Q40D Q40D Q40D Q4	1964 1965 1867 1869 1889 1882 1887 720 4371 3791 3697 3665 1267 4561 12605 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4783 4976 4976 4976 4976 4976 4976 4976 4976	1973# 1973# 1975# 1876# 1876 1976 1985 1989 708 2083 4393# 3723 701 3717 1800# 4879 2908 1330 2619 2977 4266 4795 4987 174 3313 3321 3321 3321 3321 3321 3321 332	1903 2848 2055 1955 1957 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4801 5119 3036	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788	2985# 2985# 2052 1802 2638 3020 4809 5189	4878 2069 1804 2640 3054 4330 4330	2076 1814 2653 3061 4334 4817	2088 1859 2710 3964 4338 4844	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATR1 PATR2 PATR2 PATR3AV PATSET PATTHER PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PHTBUF PHTBUF PHTNTD PNINOP POLL PRETRY PRINT PRINT PRINT PRINT PRINT PSIE PSKE PSKF PSTB PTSTOR Q460D Q40D Q40D Q40D Q40D Q40D Q40D Q40D Q4	19645 19671 19773 18887 7287 18887 7287 37987 36268 48702 37987 36268 48702 37987 36268 48702 37987 36268 48702 37987 36268 48702 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37987 37	1973# 1973# 1975# 1976# 1976# 1976# 1976# 2083# 3794# 3794# 3794# 3794# 3794# 3794# 3794# 3794# 3794# 3794# 3794# 3794# 3794# 3717 4266 4795 4795 4796 4796 4796 4797 42189	1903 2848 2055 1955# 713 2800 3800 707 3726# 1809 2910 1344 1401 2622 2980 4288 4288 4281 5119 3036	3911 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788	3898# 2985# 2985# 2052 1882 2638 3028 4380 4380 1964	2069 1884 2640 3054 4330 4812 5194	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3864 4338 4844 5299	2255 1998 2714 3563 4359 4917 5368	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATS PATR PATR2 PATR2 PATSAY PATSET PATTER PCLF PCSAVE PERROR PHOME PI PTCLSK PEXIT PNTBUF PNTEXT PNTID PNTNOP POLL PRINT PRINT PRINT PRINT PSIE PSKE PSKF PSTOR Q460D Q40D Q40D Q40D Q40D Q40D Q40D Q40D Q4	1964 1967 1871 1873 1886 1882 1882 1882 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1379 1369 1369 1379 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369	1973# 1974# 1975# 1876# 1876# 1876# 1878 2083 4393# 3703 3717 3717 2908 1330 1399 2619 2619 2723 3737 711 708 174 3331 3317# 2158# 4987# 2189# 4987#	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4801 5119 3036	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788	39988 29858 2052 1802 2638 3020 4809 5189 1964	2069 1804 2640 3054 4812 5194	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3964 4338 4844 5299	2255 1998 2714 3563 4359 4917	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATR1 PATR2 PATR2 PATR3AV PATSET PATTHER PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PHTBUF PHTBUF PHTNTD PNINOP POLL PRETRY PRINT PRINT PRINT PRINT PRINT PSIE PSKE PSKF PSTB PTSTOR Q460D Q40D Q40D Q40D Q40D Q40D Q40D Q40D Q4	19645 196713 ## 18887 736713 ## 138887 736712 37987 369686 48706 48706 48706 48706 49705 2070 2070 2070 2070 2070 2070 2070 2	1973# 1973# 1975# 1976# 1976# 1976# 1976# 2083 4393# 3703 3723 701 3717 1800# 4879 26197 4266 4795 4796 1330 711 708 3317 33274# 33173 3321 711 708 33178 4987# 1902 1999 1904	1903 2848 2055 1955# 713 2800 3800 707 3726# 1809 2910 1344 1401 2622 2980 4288 4201 5119 3036 185 3325# 3331#	3811 7168 2911 1351 1466 2624 3023 4290 4804 5132 4788	3898# 2985# 2985# 2052 1802 2638 3028 4809 5188	2069 1884 2640 3054 4330 4812 5194	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3864 4338 4844 5299	2255 1998 2714 3563 4359 4917 5368	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PAT6 PATR1 PATR2 PATR2 PATR3AV PATSET PATTHER PCLF PCSAVE PERAVE PERAVE PERAVE PHOME PI PTCLSK PLEXIT PHTBUF PHTEXT PHTBUF PHTEXT PNTID PNTNOP PRINTD PRETRY PRINT PRINT PRINTD PSIE PSKE PSKE PSTB PTSTOR Q461D Q40D Q40D Q40D Q40D Q40D Q40D Q40D Q40	1964 1967 1871 1873 1882 1882 7267 7267 3791 3791 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697 3697	1973# 1974# 1975# 1876# 1876# 1876# 1878 2083 4393# 3703 3717 3717 2908 1330 1399 2619 2619 2723 3737 711 708 174 3331 3317# 2158# 4987# 2189# 4987#	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4801 5119 3036 185 3325 3331 8	3811 716# 2911 1351 1466 2624 3023 4290 45132 4788 194	38988 29858 2052 1802 2638 3028 4300 4809 5188 1968	2069 1804 2640 3054 4310 4812 5194	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3064 4338 4844 5299 37538 3751 3547	2255 1998 2714 3563 4359 4917 5368	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATR PATR2 PATR2 PATR2 PATR3AV PATSET PATTLR PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PNTID PNTINT PNTID PNTINT PRINT PRI	19645 19671 1973 18887 72671 18887 72671 37987 3626866 48707 43722 37987 3626866 48707 45070 45070 45070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070 47070	1973# 1973# 1975# 1976# 1976# 1976# 1976# 2083# 3793# 3793# 3793# 3793# 3793# 3793# 3793# 3793# 3793# 3793# 3793# 3794# 3793# 3793# 3717# 4266 4795 4982 1373 711 700# 3313 3327# 3317# 4987# 1962 2189 1904 2175 2013 1632	1903 2848 2055 1955# 713 2800 3800 707 3726# 1809 2910 1344 1401 2622 2980 4288 4201 5119 3036 185 3325# 3331#	3811 7168 2911 1351 1466 2624 3023 4290 4804 5132 4788	3898# 2985# 2985# 2052 1802 2638 3028 4809 5188	2069 1804 2640 3054 4812 5194	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3964 4338 4844 5299	2255 1998 2714 3563 4359 4917 5368	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATS PATS PATR1 PATR2 PATR2 PATSAY PATSAY PATSET PATTER PCLF PCSAVE PERROR PHOME PI PICLSK PERST PNTBUF PNTBUF PNTBUF PNTID PNTNOP POLL PRETRY PRINT PRI	1964 1967 1971 1873 1886 1887 7267 7267 3791 3697 3666 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876 4876	1973# 1973# 1974# 1975# 1876# 1876# 1876# 1878 2083 4393# 33809# 3723 701 3717 290# 1330 1399 2619 2977 4266 4795 4985 1373 711 708 174 3313 3214 3317# 2158# 4987# 1902 2189 11902 2189 11905 1175	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4288 4801 5119 3036 185 3325 3331#	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788 194	38988 29858 2052 1802 2638 3020 4809 5189 1968 3743 3931 3744 2405 3752 2353 2322	2069 1804 2640 3054 4812 5194 3746 3747 2441	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3064 4338 4844 5299 37538 3751 3547	2255 1998 2714 3563 4359 4917 5368	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATR PATR2 PATR2 PATR3AV PATSET PATTER PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PHTBUF PHTEXT PNTID PNTNOP POLL PRETRY PRINT PR	19645 19671 1973 18887 72671 18887 73671 207987 306666666 48707 48707 10607 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707 10707	1973# 1973# 1975# 1976# 1976# 1976# 1976# 2083# 3793# 3793# 3793# 3793# 3793# 3793# 3793# 3793# 3793# 3793# 3793# 3794# 3793# 3793# 3717# 4266 4796 4796 4796 4797 4266 4797 4266 4798 1373 711 700 3313 3327# 3317# 4987# 1902 2189 1904 2175 21959 1904 2175 21699	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4288 4801 5119 3036 185 3325 3331 8	3911 716# 2911 1351 1466 2624 3023 4290 45132 4788 194 3184 2240 3184 2245 3741# 2365 2196	3898# 2985# 2985# 2052 1802 2638 3020 4809 5188  196# 3743 3931 3744 2405 3752 3753	2069 1804 2640 3054 4812 5194 3746 3747 2441	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3064 4338 4844 5299 37538 3751 3547	2255 1998 2714 3563 4359 4917 5368	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PAT6 PATR1 PATR2 PATR2 PATR3AV PATSET PATTER PCLF PCSAVE PERROR PHOME PI PTCLSK PIETT PATTER PATT	19645 19671 18773 188692# 188692# 18824# 137267 72671 379917 3626866 487072 362686666 487072 36268666 48707668 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706 450706	1973# 1973# 1974# 1975# 1876# 1876# 1876# 1876# 1876# 1876# 2083 4393# 3780# 3780# 3780# 3780# 4879 2908 4879 2908 4879 2908 1330 1399 2619 24266 4795 4982 1373 711 788 1743 3321 3274# 3317# 2158# 1902 2159# 21755 2033 1655	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4288 4801 5119 3036 185 3325 3331#	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788 194	38988 29858 2052 1802 2638 3020 4809 5189 1968 3743 3931 3744 2405 3752 2353 2322	2069 1804 2640 3054 4812 5194 3746 3747 2441	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3064 4338 4844 5299 37538 3751 3547	2255 1998 2714 3563 4359 4917 5368	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATR1 PATR2 PATR2 PATR3AV PATSET PATR1ER PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PHTBUF PHTEXT PHTBUF PHTEXT PNTID PNTNOP PRINT PRIN	1964 1967 1869 1879 1886 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884	1973# 1973# 1974# 1975# 1876# 1876# 1975 1989 708 2083 4393# 3783 3784 3793 3717 1809# 3717 2908 1339 2619 2977 4266 4795 41373 711 708 174 3313 3321 3321 3321 3321 4387 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4288 4801 5119 3036 185 3325 3331#	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788 194	38988 29858 2052 1802 2638 3020 4809 5189 1968 3743 3931 3744 2405 3752 2353 2322	2069 1804 2640 3054 4812 5194 3746 3747 2441	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3064 4338 4844 5299 37538 3751 3547	2255 1998 2714 3563 4359 4917 5368	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATR PATR2 PATR2 PATR3AV PATSET PATR1	19645 1973 1987 1987 1987 1987 1987 1987 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988	1973# 1973# 1975# 1976# 1976# 1976# 1976# 2083 4393# 3780# 3787 3717 3717 4266 4792 4373 4373 711 708 1748 3317# 2158# 1902 2189 1904 2175 2189 1904 2175 2460 2352#	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4288 4801 5119 3036 185 3325 3331#	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788 194	38988 29858 2052 1802 2638 3020 4809 5189 1968 3743 3931 3744 2405 3752 2353 2322	2069 1804 2640 3054 4812 5194 3746 3747 2441	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3064 4338 4844 5299 37538 3751 3547	2255 1998 2714 3563 4359 4917 5368	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ 6
PATS PATS PATR1 PATR2 PATR2 PATR3AV PATSET PATR1ER PCLF PCSAVE PERROR PHOME PI PTCLSK PLEXIT PHTBUF PHTEXT PHTBUF PHTEXT PNTID PNTNOP PRINT PRIN	1964 1967 1869 1879 1886 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1882 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884	1973# 1973# 1974# 1975# 1876# 1876# 1975 1989 708 2083 4393# 3783 3784 3793 3717 1809# 3717 2908 1339 2619 2977 4266 4795 41373 711 708 174 3313 3321 3321 3321 3321 4387 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987 2158# 4987	1903 2848 2055 1955 713 2800 3800 707 3726 1809 2910 1344 1401 2622 2980 4288 4801 5119 3036 185 3325 3331#	3811 716# 2911 1351 1466 2624 3023 4290 4804 5132 4788 194	38988 29858 2052 1802 2638 3020 4809 5189 1968 3743 3931 3744 2405 3752 2353 2322	2069 1804 2640 3054 4812 5194 3746 3747 2441	2076 1814 2653 3061 4334 4817 5205	2088 1859 2710 3064 4338 4844 5299 37538 3751 3547	2255 1998 2714 3563 4359 4917 5368	2156 2779 3567 4393 4931	2324 2784 3585 4761	2327 2793 3589 4763	2329 2842 3593 4768	2602 2968 3597 4778	SEQ (

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SEO	01	6
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READS	2173 802	2371 805#	4973	4987	5609#	5620									SEO 0165
REASK1 RECALI	4436#	4861													
REDO1 REDOA	470# 244#	554 252													
REFILL REMOVE	2055# 1805	2075 5513#													
REREAD RERROR	2183 2458	2252# 5648#	5652												
RESEEK	2254# 3152#	2276 3225	3234												
RESEQU RESTAR	1455	1458	4800	5601#	5605										
RETUR1 RETUR2	1861 1859#	2710#			***	4504	4571								
RETURN REWRIT	3941 2039#	4015# 2199	4017	4025	4485	4524	4571								
RLOGGE RNOTOK	2281 2191	2416 2200	2455 2383#	2459#											
ROK RS	2355 2161	2363# 2953#	3115	3989	4462	5372									
RXERRO	3873 1288#	4043	4087#												
S200 S202	1236	1251	1285 5207	1414	2962	3Ø35	4760#	4773	4823						
S202RE SAME	4791 4599	4823# 5148	5629#	5638											
SAVEBS SAVECS	4110# 4130#														
SDN SDNFIR	1041# 1275#	1275 4383	4124 5282	4134 5420	4656										
SDNOK SDNSEC	5313 2008	532Ø# 4656#													
SDNUNE	2147# 1151#	3632 2133	2459	3040	3454										
SEQ SEQABO	3148 3169	3150 3361#	3165#												
SEGBBO	317Ø	3250#	3356												
SEQUEC SEQID	3167 3168	3203#		3357											
SEQINC SEQR1	1705 3175	3166 3183	3192# 3187#	3337											
SEQR2 SEQRAN	3177 3153	3185 3165	3188# 3175#												
SEQSTP SER	3171 1039#	3300# 1276	3871	4078	4125	4135	4657								
SERROR Setup	2130 1082#	2166 3386	228Ø 3632	2378 4828	5664#	5668									
SHIFT SHIFTS	3396# 3397	3418 3403	3436#												
SND SNDERR	2288# 2452	2289 5660#	2334 5664												
SNDLOG SPECIA	1172# 1084#	2249 4854	2314 4936	2352	2446	2450									
SRETRY	1173#	2050	2100	2107	2140	2168	2253	2270	2277						
SSTART	1152#	1258	2122	2366	4356 3506	4367	4590 3527	4665 3538	4401	4531					SEQ Ø166
STARGE Start	1153# 1154#	1932 1704	2121 2120	2365 2364	3506 3143	3518 4363	3527 4587	3538	4401	4531	2475	2054	4507		SEQ 0166
STARGE START STESTP STOP	1153# 1154# 1219# 1086#	1932	2121	2365	3506	3518	3527		44Ø1 2667	4531 2760	3475	3854	4503		5EQ Ø166
STARGE START STESTP STOP STOPNT STR	1153# 1154# 1219# 1086# 197# 1037#	1932 1704 1555 1682 2062	2121 2120 1762 1722	2365 2364 1894	3506 3143 1995 4533	3518 4363 2090	3527 4587	3538			3475	3854	4503		SEQ 0166
STARGE START STESTP STOP STOPNT STR SUMCHE SUNITS	1153# 1154# 1219# 1086# 197# 1037# 1214# 1226#	1932 1704 1555 1682 2062 1891 1391	2121 2120 1762 1722	2365 2364 1894	3506 3143 1995	3518 4363	3527 4587	3538			3475	3854	4503		SEQ Ø166
STARGE START STESTP STOP STOPNT STR SUMCHE	1153# 1154# 1219# 1086# 197# 1037# 1214#	1932 1704 1555 1682 2062 1891	2121 2120 1762 1722 2516 1938	2365 2364 1894 4529 1946	3506 3143 1995 4533	3518 4363 2090	3527 4587	3538			3475	3854	4503		SEQ 0166
STARGE STARI STESTP STOP STOPNT STR SUMCHE SUNITS SW0 SW1 SW10	1153# 1154# 1219# 1086# 197# 1037# 1214# 1226# 904# 913#	1932 1704 1555 1682 2062 1891 1391 1299 1779	2121 2120 1762 1722 2516 1938 1488	2365 2364 1894 4529 1946	3506 3143 1995 4533	3518 4363 2090	3527 4587	3538			3475	3854	4503		SEQ 0166
STARGE START STESTP STOP STOPNT STR SUMCHE SUNITS SW1 SW10 SW10 SW11 SW11 SW2	1153## 1154## 12186## 1977# 1037## 12126# 1226# 904## 904## 9114#	1932 1704 1555 1682 2062 1891 1391 1299 1299	2121 2120 1762 1722 2516 1938 1488	2365 2364 1894 4529 1946	3506 3143 1995 4533	3518 4363 2090	3527 4587	3538			3475	3854	4503		5EQ 0166
STARGE STARI STESTP STOP STOPNT STR SUMCHE SUNITS SW0 SW1 SW1 SW1 SW2 SW3 SW4	1153# 1154# 12169# 197# 1096# 1097# 10214# 9044# 9044# 9044# 9064# 9064#	1932 1704 1555 1682 2062 1891 1391 1299 1299 1779 1779 2646	2121 2120 1762 1722 2516 1938 1488	2365 2364 1894 4529 1946	3506 3143 1995 4533	3518 4363 2090	3527 4587	3538			3475	3854	4503		SEQ 0166
STARGE STARI STESIP STOPNT STR SUNCHE SUNITS SW0 SW1 SW1 SW1 SW1 SW2 SW3 SW4 SW4 SW5	1153# 1154# 1210867 10977# 10374# 122634 90434# 90434# 90078 90078 90078	1932 1704 1555 1682 2062 1891 1391 1299 1299 1779 1779	2121 2120 1762 1722 2516 1938 1488	2365 2364 1894 4529 1946	3506 3143 1995 4533	3518 4363 2090	3527 4587	3538			3475	3854	4503		5EQ Ø166
STARGE STARI STESIP STOP STOPNT STR SUMCHE SWIITS SWI SWII SWI SWII SWI SWI SWI SWI SWI	11534# 1154# 1154# 1087# 1087# 10374# 10374# 10374# 10374# 9044# 9044# 9047# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067# 9067#	1932 1704 1555 1682 2062 1891 1391 1299 1299 1779 2646	2121 2120 1762 1722 2516 1938 1488	2365 2364 1894 4529 1946	3506 3143 1995 4533	3518 4363 2090	3527 4587	3538			3475	3854	4503		SEQ Ø166
STARGE STARI STESTP STOP STOPNT STR SUNCHE SUNCHE SWI SWI SWI SWI SWI SWI SWI SWI SWI SWI	1153# 1154# 1219# 1086# 1977# 1037# 1214# 1226# 903# 904# 913# 904# 905# 906# 907# 909# 919# 911# 919# 919# 919# 919# 911#	1932 1704 1555 1682 2062 1891 1391 1299 1779 1779 2646 4851 4437	2121 2120 1762 1722 2516 1938 1488	2365 2364 1894 4529 1946	3506 3143 1995 4533	3518 4363 2090	3527 4587	3538			3475	3054	4503		SEQ Ø166
STARGE STARI STESTP STOP STOPNT STR SUNCHE SUNITS SW0 SW1 SW1 SW1 SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW6 SW7 SW8	1153# 1219# 1219# 1086# 197# 1037# 1224# 1226# 903# 904# 913# 904# 907# 909# 909# 910# 9112# 9125 5431 1755	1932 1704 1555 1682 2062 1891 1391 1391 1299 1779 1779 2646 4851 4437	2120 2120 1762 1722 2516 1938 1488 2939	2365 2364 1894 4529 1946 4785	3506 3143 1995 4533	3518 4363 2090	3527 4587	3538			3475	3854	45Ø3 4398	4402	SEQ Ø166
STARGE STARG STARI STESTP STOP STOP STR SUNCHE SUNITS SW0 SW1 SW1 SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8 SW7 SW8 SW9 SWTNOP TOT7 TAB	1153# 1154# 1219# 1086# 197# 1037# 1214# 1226# 903# 913# 913# 905# 906# 907# 908# 910# 911# 911# 911# 911# 911# 911#	1932 1704 1555 1682 2062 1891 1391 1299 1779 1779 2646 4851 4437 437* 1759* 2661 5139 4347*	2121 2120 1762 1722 2516 1938 1488 2839	2365 2364 1894 4529 1946 4785	35/46 31/43 1995 4533 1951	3518 4363 2090	3527 4587 2538	3538 2633	2667	2760				4402	SEQ Ø166
STARGE STARG STARI STESTP STOP STOPNT STR SUNCHE SUNITS SW1 SW1 SW1 SW1 SW1 SW1 SW2 SW3 SW4 SW5 SW4 SW5 SW7 SW8 SW7 SW8 SW7 TAB TAB27 TAB41 TAB5	1153# 1154# 1219# 1086# 197# 1037# 1214# 903# 903# 913# 915# 905# 906# 907# 908# 907# 910# 9112# 5431 1088# 4342 4342 4342	1932 1704 1555 1682 2062 1891 1391 1299 1779 2646 4851 4437 4437 4361 4361 4361 4361	2120 2120 1762 1722 2516 1938 1488 2939	2365 2364 1894 4529 1946 4785	35/46 31/43 1995 4533 1951	3518 4363 2090	3527 4587 2538	3538 2633	2667	2760				4402	SEQ 0166
STARGE STARGI STESTP STOP STOPNT STR SUMCHE SUNITS SW0 SW1 SW1 SW1 SW2 SW3 SW5 SW6 SW7 SW8 SW9 SW7 SW8 SW9 TOT7 TAB TAB27 TAB41	1153# 1219# 1219# 1086# 1977# 1037# 1214# 1214# 1204# 903# 904# 904# 906# 909# 909# 911# 911# 911# 911# 911# 911	1932 1704 1555 1682 2062 1891 1391 1299 1779 1779 2646 4851 4437 5437 1759 2661 5139 4347 4361	2121 2120 1762 1722 2516 1938 1488 2839	2365 2364 1894 4529 1946 4785	35/46 31/43 1995 4533 1951	3518 4363 2090	3527 4587 2538	3538 2633	2667	2760				4402	SEQ 0166
STARGE STARG STARG STARG STOP STOP STR SUNCHE SUNITS SW0 SW1 SW1 SW1 SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8 SW7 SW9 SWTNOP T0T7 TAB41 TAB27 TAB53 TAB60 TABLA	1153# 1219# 1084# 197# 1037# 1214# 1226# 903# 913# 913# 905# 906# 907# 908# 919# 911# 911# 911# 911# 911# 914# 914	1932 1704 1555 1682 2062 1891 1391 1299 1779 1779 2646 4851 4437 4367 4367 4361 4307 4361 4307 4361 4307 4301 4302 4301	2120 1762 1762 1722 2516 1938 1488 2939	2365 2364 1894 4529 1946 4785	35/46 31/43 1995 4533 1951	3518 4363 2090	3527 4587 2538	3538 2633	2667	2760				4402	SEQ 0166
STARGE STARG STARI STESTP STOP STOP STR SUNCHE SUNITS SW0 SW1 SW1 SW1 SW1 SW1 SW1 SW2 SW3 SW5 SW6 SW7 SW8 SW7 SW8 SW7 SW8 SW7 SW8 SW7 TAB3 TAB41 TAB53 TAB54 TAB1A TAB1B TAB1B	1153# 1219# 1016# 107# 1037# 1214# 903# 913# 913# 905# 905# 906# 907# 908# 910# 911# 911# 911# 911# 943# 944 944 954 944 944 945 947 947 948 948 949 949 949 949 949 949 949 949	1932 1704 1555 1682 2062 1891 1391 1299 1779 2646 4851 4437 4437 4402 4801 4801 4801 4801 4801 4801 4801 4801	2120 2120 1762 1722 2516 1938 1488 2839 2675 5158 4368# 2000	2365 2364 1894 4529 1946 4785	35/46 31/43 1995 4533 1951	3518 4363 2090	3527 4587 2538	3538 2633	2667	2760				4402	SEQ 0166
STARGE STARGE STARGE STOP STOP STOP STR SUNCHE SUNITS SWI SWI SWI SWI SWI SWI SWI SWI SWI SW	1153# 1219# 1084# 1097# 1037# 1214# 9034# 913# 905# 906# 907# 908# 907# 910# 9112# 5431 1755 1088# 4340 4352 4395 278 278 278 2595 3976 3973	1932 1704 1555 1682 2062 1891 1391 1299 1779 2646 4851 4437 4437 4437 4402 4831 4307 4402 1280 2808 2808 2808 2808 2808 2808 28	2120 1762 1762 1722 2516 1938 1488 2839 2675 5158 4368# 2000 5148 5639 3976	2365 2364 1894 4529 1946 4785 3245 5183 3245# 5620# 5167	35/43 31/43 1995 45/33 1951 43/07	3518 4363 2090 1953 4318	3527 4587 2538 4332	3538 2633	2667	2760				4402	SEQ 0166
STARGE STARGE STARGE STOP STOP STR SUNCHE SUNITS SW0 SW1 SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8 SW7 SW8 SW7 SW9 SWTNOP TOT7 TAB41 TAB5 TAB60 TABLB TAP	1153# 1219# 1086# 1097# 1087# 1214# 9037# 1226# 904# 905# 9069# 907# 909# 910# 912# 5431 1755 1088# 4395 279 4395 279 4395 279 4395 279 4395 279 4395 279 4397 33973 33973 33973	1932 1704 1555 1682 2062 1891 1299 1779 12646 4851 4437 44437 44437 4361 4361 4361 4361 4361 4361 4361 4361	2120 1762 1762 1722 2516 1938 1488 2839 2675 5158 4368# 2000 5148 5639 3976 3976 3976 3976	2365 2364 1894 4529 1946 4785 3245 5183 3245# 5620# 5167 5174	3546 3143 1995 4533 1951 4307 5629 5174 51727	3518 4363 2090 1953 4318 5175 56408 2119	3527 4587 2538 4332 4332	3538 2633	2667 4343	276 <i>0</i> 4347	4364			4402	SEQ 0166
STARGE STARGE STARGE STARGE STOP STOP STR SUNCHE SUNITS SW0 SW1 SW1 SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8 SW7 SW8 SW7 TAB TAB27 TAB41 TAB5 TAB60 TAB1B TAPE0 TAPE0 TAPE0 TAPE0 TAPGET	1153# 1154# 1219# 1086# 1097# 1037# 1214# 1224# 124# 124# 124# 124# 124# 1	1932 1704 1555 1682 2062 1891 1299 1779 1779 1779 2646 4851 4437 4367 4367 4367 4367 4367 4367 4367	2120 1762 1762 1722 2516 1938 1488 2939 2675 5158 4368# 2000 5148 5639 3976 3976 3976 3976 3976 3976 3976 3	2365 2364 1894 4529 1946 4785 3245 5183 3245# 5620# 5174	35/43 31/43 1995 45:33 1951 43:07 56:29 5174 5175	3518 4363 2090 1953 4318	3527 4587 2538 4332	3538 2633	2667 4343	276 <i>0</i>	4364	4368	4398		SEQ 0166
STARGE STARGE STARGE STARGE STOP STOP STR SUNCHE SUNITS SW0 SW1 SW1 SW1 SW1 SW1 SW2 SW3 SW5 SW6 SW7 SW8 SW7 SW8 SW7 SW8 SW7 TAB TAB27 TAB41 TAB53 TAB60 TAB1B TAB1B TAB1B TAB1B TAB1B TAB1B TAFE TAFE1 TARGET TCTLLS TEST TEST1	1153# 1219# 1219# 1087# 1097# 1037# 1226# 9034# 913# 913# 914* 907# 908# 909# 911# 911# 912# 5431 1755 1088# 4947 4352 4395 1981 278 278 279 3973 11588 3973 11576 3973 11584 16768	1932 1704 1555 1682 2062 1891 1299 1779 1779 1779 1779 1779 1779 17	2120 1762 1762 1722 2516 1938 1488 2839 2675 5158 4368# 2000 5148 5639 3976 3976 3976 3976	2365 2364 1894 4529 1946 4785 3245 5183 3245# 5620# 5167 5174	3546 3143 1995 4533 1951 4307 5629 5174 51727	3518 4363 2090 1953 4318 5175 56408 2119	3527 4587 2538 4332 4332	3538 2633	2667 4343	276 <i>0</i> 4347	4364	4368	4398		SEQ 0166
STARGE STARGE STARGE STARI STESTP STOP STOP STR SUNCHE SUNITS SW0 SW1 SW1 SW1 SW1 SW1 SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8 SW7 SW8 SW7 SW8 TAB1 TAB27 TAB41 TAB53 TAB53 TAB60 TAB1 TAB1B TAFE TAFE TAFE TAFE TAFE TAFE TAFE TAFE	1153# 1219# 1219# 1037# 1037# 1214# 903# 913# 913# 905# 906# 907# 908 919# 919# 5431 1755 1088# 4342 4395 1278 278 278 278 278 278 278 278 278 278	1932 1704 1555 1682 2062 1891 1391 1299 1779 2646 4851 4437 4402 4851 4437 4402 1759 4347 4402 1994 280 280 280 280 280 3974 1253 1661 1659 1659	2120 1762 1762 1722 2516 1938 1488 2939 2675 5158 4368# 2000 5148 5639 3976 3976 3976 3976 3976 3976 3976 3	2365 2364 1894 4529 1946 4785 3245 5183 3245# 5620# 5167 5174	3546 3143 1995 4533 1951 4307 5629 5174 51727	3518 4363 2090 1953 4318 5175 56408 2119	3527 4587 2538 4332 4332	3538 2633	2667 4343	276 <i>0</i> 4347	4364	4368	4398		SEQ 0166
STARGE STARGE STARGE STARGE STOP STOP STR SUNCHE SUNITS SWI SWI SWI SWI SWI SWI SWI SWI SWI SW	1153# 1219# 1019# 1037# 1037# 1214# 9034# 913# 914# 905# 906# 907# 908# 910# 910# 9112# 5431 11588# 4395 1981 278 278 278 278 278 278 278 278 278 278	1932 1704 1555 1682 2062 1891 1299 1779 2646 4851 4437 4402 4851 4437 4402 15638 4347 4301 4307 4301 4307 4301 16538 3332 1661 1579 16538 1579 16638	2120 1762 1762 1722 2516 1938 1488 2839 2675 5158 4368# 2000 5148 5639 3976 3976 3976 3976 3976 3976 3976 3	2365 2364 1894 4529 1946 4785 3245 5183 3245# 5620# 5167 5174	3546 3143 1995 4533 1951 4307 5629 5174 51727	3518 4363 2090 1953 4318 5175 56408 2119	3527 4587 2538 4332 4332	3538 2633	2667 4343	276 <i>0</i> 4347	4364	4368	4398		SEQ 0166
STARGE STARGE STARGE STARGE STOP STOP STOP STR SUNCHE SUNITS SWI SWI SWI SWI SWI SWI SWI SWI SWI SW	1153# 1153# 1219# 1087# 1087# 1226# 9034# 913# 905# 906# 907# 908# 907# 908# 910# 9112# 5431 1158# 4340 4352 43951 278 4395 1278 4340 4352 4395 1278 4373 1158# 4576 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 15778 157	1932 1704 1555 1682 2062 1891 1299 1779 1779 2646 4851 4437 4402 4851 4361 4361 4361 4361 4361 4361 4361 436	2120 1762 1762 1722 2516 1938 1488 2839 2675 5158 4368# 2000 5148 5639 3976 1703 3976 1703 1684 1655#	2365 2364 1894 4529 1946 4785 3245 5183 3245# 5620# 5167 5174 1761 3377	3546 3143 1995 4533 1951 4307 5629 5174 5175 1927 3534	3518 4363 2090 1953 4318 4318	3527 4587 2538 4332 4332 5639# 5644 2363 4397	3538 2633 - - - 4336 5640 3142 4535	2667 4343 3181 4585	276 <i>0</i> 4347 3198 4593	4364 3209 4597	4368	4398		SEQ 0166
STARGE STARGE STARGE STARGE STOPN STOPN STOPN STOPN STOPN STOPN STOPN STOPN SW1 SW1 SW1 SW1 SW1 SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8 SW9 SW1NOP TOT7 TAB TAB27 TAB41 TAB53 TAB53 TAB60 TABLA TAFE1 TAFE5T TEST1 TEST2 TEST3 TEST3 TEST5 T	1153# 1153# 1154# 1151# 1197# 1037# 11214# 1037# 11226# 903# 904# 905# 906# 907# 909# 910# 9119# 912# 1755# 108# 4395 1278 4395 2789 4595 33973 33973 3973# 3973# 1577 1578# 1582 1577 15781	1932 1704 1555 1682 2062 1891 1299 1779 12646 4851 44437 44402 4851 4347 4347 4402 1280 4347 4367 4367 4367 4367 4367 4367 4367	2120 1762 1762 1722 2516 1938 1488 2839 2675 5158 4368# 2000 5148 5639 3976 3976 3976 3976 3976 3976 3976 3	2365 2364 1894 4529 1946 4785 3245 5183 3245# 5620# 5167 5174	3546 3143 1995 4533 1951 4307 5629 5174 51727	3518 4363 2090 1953 4318 5175 56408 2119	3527 4587 2538 4332 4332	3538 2633	2667 4343	276 <i>0</i> 4347	4364	4368	4398		SEQ 0166
STARGE STARGE STARGE STARGE STARGE STOP STOP STR SUNCHE SUNITS SW0 SW1 SW1 SW1 SW1 SW1 SW1 SW2 SW3 SW3 SW5 SW6 SW7 SW8 SW7 SW8 SW7 SW8 SW7 TAB TAB27 TAB41 TAB53 TAB60 TAB1B TABEB TAFE TAFET TAB1 TABCT TABCT TABCT TABCT TEST1 TEST2 TEST3 TEST7 TES	1153# 1219# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030# 1030#	1932 1704 1555 1682 2062 1891 1299 1779 1779 1779 2646 4851 4437 4361 4367 4361 4361 4361 4361 4361 4361 4361 4361	2120 2120 1762 1762 1722 2516 1938 1488 2939 2675 5158 4368# 2000 5148 5639 3976 1703 3377 1684 1655#	2365 2364 1894 4529 1946 4785 3245 5183 3245# 5620# 5174 1761 3377	3546 3143 1995 4533 1951 4307 5629 5174 5175 1927 3534	3518 4363 2090 1953 4318 4318 5175 56408 2119 3975	3527 4587 2538 4332 4332 5639# 5644 2363 4397	3538 2633 - - - 4336 5640 3142 4535	2667 4343 3181 4585	276 <i>0</i> 4347 3198 4593	4364 3209 4597	4368	4398		SEQ 0166
STARGE STARGE STARGE STARGE STOP STOP STOP STR SUNCHE SUNITS SW0 SW1 SW1 SW1 SW1 SW1 SW1 SW1 SW2 SW3 SW3 SW5 SW6 SW7 SW8 SW7 SW8 SW7 SW8 SW7 SW8 TAB1 TAB27 TAB41 TAB53 TAB60 TABLA TABLB TAFE TAFE TAFE TAFE TAFE TAFE TAFE TAFE	1153# 1153# 1219# 1086# 197# 1037# 1214# 9034# 913# 914# 905# 906# 907# 908# 907# 910# 9112# 5431 1158# 4395 1981 278 278 278 278 278 278 278 278 278 278	1932 1704 1555 1682 2062 1891 1299 1779 2646 4851 4437 4402 4851 4437 4402 480 484 280 485 121 5638 3974 4307 4307 4307 4307 4307 4307 4307 43	2120 2120 1762 1762 1722 2516 1938 1488 2839 2675 5158 4368# 2000 5148 5639 3976 1773 3976 1783 1684 1655#	2365 2364 1894 4529 1946 4785 3245 5183 3245# 5620# 5167 5174 1761 3377	3546 3143 1995 4533 1951 4307 5629 5174 5175 1927 3534	3518 4363 2090 1953 4318 4318	3527 4587 2538 4332 4332 5639# 5644 2363 4397	3538 2633 - - - 4336 5640 3142 4535	2667 4343 3181 4585	276 <i>0</i> 4347 3198 4593	4364 3209 4597	4368	4398		SEQ #166

TRACKS	11791	1680	1709	1720	3042	3124	3125	3193	3204	3259	3267	3269	3275	3280	SEQ 0167
TSTCHA	3301 481	3306 489	3309 502#	3310 519	3326	3339	3342	3345	3346	3354	3362	3366	3367		
TTRACK	1180	3127	3192	3203	3258	3279	3300	3312	3325	3338	3348	3361	3369		
TTYBUS	1218# 5361	1235 5390	1253 5394	2858 5406	2870 5496	2878	3385	3666	3686	3721	3724	3796	4869	5209	
TTYLPT	559	698	717#												
TWOCRL TY1ASC	4278 3701	4288# 3705	3707	3714#	3737										
TY4OCT	1090#	1982	2659	2673	2677	2787	2795	3025	3067	3565	3597	3591	3595	3599	
	43Ø5 5185	4316 5192	4341 5340	4345 5370	4362	4366	4396	4400	4798	4806	4814	4945	5098	5137	
TYBOCT	1108#	1403	2712	3247	4978	4985	5145	5164							
TYBSTA Typelt	4328 1092#	4341# 3415	3431	3649	3695	4932									
UDCODE	4064	5683#	5684		3073	4032									
UNIT	2928 1321	2995# 1393	4130 1487	4496 2904	2986#	3008	3009	3030	3046	3058	4786	4789			
UNITX	2920	2921	2994#	3006		3000	3023	3030	3040	3836	4/80	7/89			
UNITZ	1325 4202	2125 4221	2171 4924	2369 4933	2899 4969	2901 5172	2916 5187	2925	2993#	3027	3069	3944	3971	4065	
UNKNOW	3829	3893#	3893	4733	4707	31/2	2101								
UNRECO UPAROW	3935 311	3942# 345	351	377	395#	401	560								
UREAD	2177	2196#	331	311	373#	401	300								
USEEK	2272 1224#	2279#													
USTART VERIFY	3872	2900 3865#													
WØ	4972	4974	4980#	44.33											
WAIT WATEX	1119# 3084	1272 3091#	4123	4133	4655										
WATMES WERROR	435 2415	724# 3929	4925	5644#	5648										
WHAT2	2440	2445	3544#	3044#	3040										
WHAT3 Whatyp	2446# 2384	3546 2435#	3551												
WHICHR	2039	2131	2140#												
WNOTOK Wresee	2102 2051#	2108 2106	2129#												
WRITE	1117#	1630	1665	1678	1707										
WRITEL Writeo	2035#	2134													
WRITER	2095 2100#	2119#													
WRITES .	2127 1322	4971 2902	4973 2905	4980 2914	5605# 2923	5609 2924	2987#	4787	5002						
X1DUMP	4943	4967#	2903	2714	2723	2724	23079	4,0,	3002						
X3DUMP XA10	4990 923#	5119# 2526	2533	2544	2678	5170	5176								
XAC	3784	3900	3903#		2070	3110	3170								
XAERRO XANDRE	990 2864	3758# 2876	3762 2877	2880	2681#										
XAPT8	1114	1424#	1428	1433	5432										
XASTAT	2498	2559	2616	2688#											
OTUAX	1371#	2958	3018												SEQ 0168
XBSW	1023	5235#	5252												SEQ 0168
XBSW XC8CHA XC8CKP	1023 3614 116	5235# 3615 640#	5252 3618# 655	657	709										SEQ 0168
XBSW XC8CHA	1023 3614 116 231#	5235# 3615	5252 3618#	657 262	709 263	265	328	333	347	381	439	653	675	761	SEQ 0168
XBSW XC8CHA XC8CKP XC8CNT XC8CRL	1023 3614 116 231# 800 60	5235# 3615 640# 236	5252 3618# 655 261	262 314	263 400	265 433	328 436	333 470	347 520	381 553	439 606#	653 617	675	761	SEQ 0168
XBSW XC8CHA XC8CKP XC8CNT	1023 3614 116 231# 800	5235# 3615 640# 236 73 488	5252 3618# 655 261 260 671#	262 314 676	263 400 680	433	436						675	761	SEQ 0168
XBSW XC8CHA XC8CKP XC8CNT XC8CRL XC8ECH XC8 INQ XC8 LOO	1023 3614 116 231* 800 60 480 77	5235# 3615 640# 236 73 488 429# 804	5252 3618# 655 261 260 671# 432 946	262 314 676 440	263 400								675	761	SEQ 0168
XBSW XC8CHA XC8CKP XC8CNT XC8CRL XC8ECH XC8INQ	1023 3614 116 231* 800 60 480 77	5235# 3615 640# 236 73 488 429#	5252 3618# 655 261 260 671# 432 946 577#	262 314 676 440 593	263 400 680	433	436						675	761	SEQ 0168
XBSW XC8CHA XC8CKP XC8CNT XC8CRL XC8ECH XC8INQ XC8LOO XC8OCT XC8PAS XC8PNT	1023 3614 116 231# 800 60 480 77 798# 66 49#	5235# 3615 640# 236 73 488 429# 804 476 78	5252 3618# 655 261 260 671# 432 946 577# 80 169#	262 314 676 440 593 984 171	263 400 680 441	433	436						675	761	SEQ 0168
XBSW XC8CHA XC8CKP XC8CNT XC8ECH XC8INO XC8LOO XC8OCT XC8PAS XC8PNT XC8PSW XC8SW	1023 3614 116 231* 800 480 77 798* 61 384 52	5235# 5235# 640# 23640 73488 4294 476 781 462#	5252 3618# 655 261 260 671# 432 946 577#	262 314 676 440 593 984	263 400 680 441	433 770	436 805	470	520				675	761	SEQ 0168
XBSW XCBCKP XCBCKP XCBCNT XCBECH XCBECH XCBLOO XCBLOO XCBLOO XCBPAS XCBPNT XCBPSW XCBSW XCBSW XCBTTY	1023 3614 116 231* 800 600 480 77 798* 66 49* 61 384 141*	5235# 3615 4236 73 489# 804 478 71 462# 149	5252 3618 651 261 260 671* 432 946 577* 80 169* 465	262 314 676 440 593 984 171 522 128 437	263 400 680 441 173 777 787 651	433 770 177 672	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCKP XCBCKP XCBCRL XCBECH XCBINO XCBLOO XCBOCT XCBPAS XCBPAS XCBPNT XCBPSW XCBTYP XCBTYP XCBTYP XCHECK	1023 3614 116 231* 800 600 480 77 798 64 69 61 384 52 141* 184 980	52354 4154 4294 4774 4624 1493 1493 1493 1493 1493 1493 1493	5252 3618 651 261 269 432 946 571 432 946 1465 114# 331 2494	262 314 676 440 593 984 171 522 128 437 259	263 400 680 441 173 777 787	433 770 177	436 805 188	470	520				675 696#	761 715	SEQ 0168
XBSW XCBCHA XCBCKP XCBCRD XCBC	1023 3614 116 231# 800 480 778# 664 49# 384 14184 9849	5235# 5236406 236406 236406 4824 4764 4624 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498	5252 3618 651 2661 2671 432 5777 8787 8787 8787 8787 8787 8787 878	262 314 676 440 593 171 522 128 437 259 1835	263 400 680 441 173 777 787 651 397	433 770 177 672 399	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCKP XCBCNT XCBCRL XCBERL XCBING XCBLOO XCBOCT XCBPAS XCBPNT XCBPSW XCBSW XCBTTY XCBTYP XCHCKSWI XCNT XCMPA	1023 3614 116 2318 800 60 480 77 7988 66 491 384 52 1418 1840 949 11428 26008	5235 # 3615 # 236	5252 3618 655 261 260 6718 432 946 5777 465 1148 331 257 494 1828 3425 4326	262 314 676 440 593 984 171 522 128 437 259	263 400 680 441 173 777 787 651 397	433 770 177 672 399	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCKP XCBCNT XCBCRL XCBCNC XCBCNC XCBLNC XCBLNC XCBLNC XCBPNT XCBPSS XCBPNT XCBPSSW XCBTYP XCHECK XCKSWI XCNT XCOMPA XCRCER	1023 3614 116 2318 800 60 480 77 7988 66 498 61 384 980 980 11428 26007	5235 # 3615 640 # 236 73 488 # 429 # 804 476 78 74 149 193 5488 # 3419 4118 2321	5252 3618 655 261 260 671: 432 946 577: 80 169: 432 114: 331: 257 5494 1494 3425 4326 2331:	26 2 314 676 440 593 115 221 1237 2594 15095 15095	263 400 680 441 173 777 785 651 397 5506	433 770 177 672 399 5507	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCKP XCBCRD XCBC	1023 3614 116 231# 800 60 480 67 77 988 61 384 52 141# 184 980 2142# 2307 1058	5235 # 3615 640 # 236 73 488 429 # 804 476 78 71 462 # 74 149 193 54825 # 3419 2321 2953 5349 #	5252 3618 655 261 260 6718 432 946 5777 465 1148 331 257 494 1828 3425 4326	262 314 676 440 593 171 522 128 437 259 1835	263 400 680 441 173 777 787 651 397	433 770 177 672 399	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCKP XCBCNT XCBCRL XCBERL XCBING XCBLOO XCBOCT XCBPAS XCBPNSW XCBSW XCBSTYP XCHECK XCNT XCOMPA XCRCER XDELUN XCDLUN XDOLPT XDONE	1023 3614 116 2318 800 600 480 77 798 66 498 61 384 52 1418 184 980 949 21050 2307 1050	5235 # 3615 640 # 236 73 488 429 # 804 476 78 71 462 # 74 149 193 5488 # 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825 # 348 1825	5252 3618 655 261 260 671 432 946 577 80 1465 1134 3257 5494 1828 425 4326 23318	314 676 440 593 984 171 522 128 437 5504 1835 5097	263 400 680 441 173 777 785 651 397 5506	433 770 177 672 399 5507	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCKP XCBCNT XCBCRL XCBCNCT XCBLNO XCBLNO XCBLNO XCBCNCT XCBPAS XCBPNSW XCBSW XCBTYP XCHSWI XCNT XCNT XCNT XCNCER XDEVIC XDOLPT XDOSW	1023 3614 116 2318 800 60 480 77 7988 66 499 61 384 980 1184 980 1184 980 12307 1052 317	5235 # 3615 640# 236 73 488 # 474 474 149 193 5488 # 3419 4119 2321 2953 5349 # 707 # 5001# 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318 # 318	5252 3618 655 261 260 671: 432 946 577: 80: 169: 432 1257 5494 148: 331: 257 5494 257 5494 3425 4326 2331: 2959	314 676 440 593 984 171 522 128 437 259 5504 1835 5097	263 400 680 441 173 777 787 651 597 5506	433 770 177 672 399 5507	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCCHA XCBCCHA XCBCCH XCBCCH XCBECH XCCMER XCCMER XCCMER XCCCEC XCDCUN XDEVIC XDCUIN XDEVIC XDOSW XDRIN	1023 3614 116 2318 60 480 77 7988 66 498 61 384 52 1418 184 949 11428 26008 2307 1050 323 700 1052 317	5235 # 3615 640 # 236 73 488 429 # 804 476 78 71 462 # 74 149 193 5488 # 1825 # 3419 2953 5349 # 707 # 5001 # 316 # 2525	5252 3618 655 261 260 6718 432 946 5778 80 1698 4655 1148 331 257 5494 1828 3425 23318 2959	262 314 676 440 593 984 171 522 128 437 259 5594 1835 5097 30058	263 400 680 441 173 777 785 651 397 5506	433 770 177 672 399 5507	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCCHA XCBCCHA XCBCCHA XCBCCH XCBINO XCBOCT XCBPAS XCBPAS XCBPAS XCBPSW XCBSTYP XCBTYP XCBTY XCBTYP XCBTY XCBTYP XCBTYP XCBTYP XCBTY XCBTYP XCBTY	1023 3614 116 2318 800 600 480 77 7988 66 498 61 384 52 52 1418 1980 949 2307 1052 3237 1053 1053 1073 1073 1073 1073 1073 1073 1073 107	5235 # 3615 640 # 236 73 488 429 # 804 427 78 71 462 # 71 149 193 5488 # 1825 # 3419 2953 5349 # 7501 # 5001 # 3152 53055 2055	5252 3618 655 261 260 6711 432 946 5777 80 165 1141 331 257 494 1828 445 1331 257 5494 1828 4326 2331 2959 504 3063 3063 3063 3063 3063 3063 3063 30	314 676 440 593 984 171 522 128 437 5504 1835 5097 3005* 4127 3072 4536	263 400 680 441 173 777 787 651 359 3019	433 770 177 672 399 5507	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCHA XCBCRD XCBCRD XCBCRD XCBLOO XCBLOO XCBLOO XCBCCT XCBPAS XCBPNT XCBPSW XCBSTYP XCHECK XCBTYP XCHECK XCOMPA XCRCLER XDELUN XCNT XCOMPA XCRCLER XDELUN XDONE XDOSW XDRIN XDRIVE XDRUSL XDRUSL	1023 3614 116 2311 800 60 480 777 7981 66 498 61 384 52 1418 184 980 949 1142 1050 700 1052 317 1077 1033	5235 # 3615 640 # 236 73 488 429 # 804 476 78 74 149 193 5488 # 1825 # 3419 # 2321 2953 5349 # 707# 318 # 2525 5063 # 2065 5 663 #	5252 3618 655 261 260 671: 432 946 577 80 169: 465 114: 331 257 5492 3425 4326 2331: 2959	314 676 446 593 984 171 522 128 437 259 5504 1835 5097 3005*	263 400 680 441 173 777 787 651 597 5506	433 770 177 672 399 5507	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XC8CHA XC8CKP XC8CKT XC8CCH XC8CCH XC8CCH XC8ECH XC8ECH XC8ECH XC8DOCT XC8PAS XC8PAS XC8PAS XC8FTY XC8TY XC8TY XC8TY XC8TY XC8TY XC8TY XC8TY XC9CEC XCOMPA XCCCEC XCOMPA XCCCEC XCOMPA XCRCEC XCR	1023 3614 116 2318 800 60 480 77 7988 66 498 61 384 52 1418 184 949 11428 26008 7323 7052 317 10358 1077 10358 112 512718	5235 # 3615 640 # 236 73 488 429 # 804 476 78 71 462 # 74 149 193 5488 # 1825 # 3419 2321 5204 55204 55204 55204 55204 55204 55204 55204 55206 55204 55206 55204 55206 55204 55206 55204 55206 55204 55206 55206 55204 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206 552000 55206 55206 55206 55206 55206 55206 55206 55206 55206 55206	5252 3618 655 261 260 6711 432 946 5777 80 165 1141 331 257 494 1828 445 1331 257 5494 1828 4326 2331 2959 504 3063 3063 3063 3063 3063 3063 3063 30	314 676 440 593 984 171 522 128 437 5504 1835 5097 3005* 4127 3072 4536	263 400 680 441 173 777 787 651 359 3019	433 770 177 672 399 5507	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCCHA XCBCCHA XCBCCHA XCBCCH XCBCCH XCBLOO XCBOOCT XCBPAS XCBPAS XCBPAS XCBTYP XCBTY XCBTYP XCBTY XC	1023 3614 116 2318 800 60 480 77 7988 66 498 61 384 52 1418 184 949 1428 26008 2307 1052 317 10338 1077 10358 1112 51271 5131 2734	5235 # 3615 640 # 236 73 488 429 # 804 476 78 71 462 # 74 149 193 5488 # 1825 # 3419 7 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520 # 520	5252 3618 655 261 260 6711 432 946 5777 80 165 1141 331 257 494 1828 445 1331 257 5494 1828 4326 2331 2959 504 3063 3063 3063 3063 3063 3063 3063 30	314 676 440 593 984 171 522 128 437 5504 1835 5097 3005* 4127 3072 4536	263 400 680 441 173 777 787 651 359 3019	433 770 177 672 399 5507	436 805 188 799 478	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCHA XCBCHA XCBCRD XCBCNT XCBCRD XCBLOO XCBLOO XCBLOO XCBLOO XCBOCT XCBPAS XCBPNSW XCBSTYP XCHECK XCBTYP XCHECK XCOMPA XCRCLEN XCOMPA XCRCLEN XDOLPT XDONE XDOSW XDRIN XDRIVE XDRVSL XDUMP XDRVSL XDUMPL XDRVSL XDUMPL XDUM	1023 3614 116 231# 800 60 480 777 798# 66 49# 61 384 52 141# 184 980 949 1142# 2600# 2307 1052 317 1033# 1077 1033# 1112 51271# 5171# 5171#	5235 # 3615 640 # 236 73 488 429 # 804 476 78 1462 # 74 149 193 5488 # 1825 # 3419 # 2525 35349 # 707# 5001# 318 # 2525 7663 # 5204 5520 # 5204 5204 7 5201 # 2740 7 2637	5252 3618 655 261 260 671: 432 946 577: 80 169: 465: 114: 331 257 5494 3425 4326 2331: 2959	314 676 446 593 984 171 522 128 437 259 5508 1835 5097 3095\$ 4127 3072 4536 5080	263 400 680 441 173 777 787 651 397 5506	433 770 177 672 399 5507	436 805 188 799	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
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XBSW XCBCHA XCBCCHA XCBCCHA XCBCCHA XCBCCHA XCBCNT XCBCNT XCBCNT XCBSNC XCBOCT XCBPAS XCBFASW XCBFASW XCBSTYP XCBTYP XCBTY XCBTYP XCBTY XCBTYP XCBTY XCBTYP XCBTY XC	1023 3614 116 2318 60 480 77 798 498 66 499 491 184 184 184 2307 1050 1052 317 1077 10731 1112 51711 51711 51711 51711 51711 5175 1112 6244 1056 1058 1061	5235 640# 236 73 489# 804 476 78 1462# 149 15488# 1825# 3482# 3482# 3482# 3482# 3482# 3482# 3482# 3482# 318# 2525 3063# 2525 3063# 2525 3063# 2740 2637 2740 2637 2740 2637 2740 2637 2740 2637 2740 2637 2740 2637 2740 2637 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740 2740	5252 3618 655 261 260 671 432 946 432 9465 1144 1828 4326 2331 4325 4326 2331 5004 3835 3063 257 5004 3835 3063 257 5079	262 314 676 440 593 984 171 522 128 427 259 5504 1835 5097 3005* 5005 4127 3072 4536 5080	263 400 680 441 173 777 787 5506 3019 4137 5082	433 770 177 672 399 5507	436 805 188 799 478	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCCHA XCBCCHA XCBCCHA XCBCCHA XCBCCHA XCBCCHA XCBCCHA XCBLOOT XCBPAST XCBPAST XCBPAST XCBPAST XCBTYP XCHSWI XCNCER XCRCLUN XCOMPA XCRCLUN XCRCLUN XDEVICT XDONE XDRIVET	1023 3614 116 2318 800 60 480 77 7988 66 498 61 384 52 1418 184 949 142 2307 1052 317 10352 317 10352 317 10358 1112 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718 51718	5235 # 3615 640 # 236 7 3 488 429 # 804 429 # 804 429 # 804 149 193 5488 # 1825 # 318 # 2321 2065 5063 # 5204 7 5201 # 27637 4860 # 1702 2637 4862 # 1702 2637 4862 # 3159 # 5208 # 3159 # 5208 # 3159 # 5208 # 3159 # 5208 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159 # 3159	5252 3618 655 261 260 671* 432 946 577* 80 169* 465* 114* 3257 54326 2331* 2959 504 3835 3063 4532 5079 2769 2639* 3741* 3846 3846 3846 3846 3846 3846 3846 3846	262 314 676 440 593 984 171 522 128 427 259 5504 1835 5097 3005* 5005 4127 3072 4536 5080	263 400 680 441 173 777 787 5506 3019 4137 5082	433 770 177 672 399 5507	436 805 188 799 478	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
XBSW XCBCHA XCBCCHA XCBCCHA XCBCCHA XCBCCHA XCBCCHA XCBCCHA XCBCCT XCBPAST XCBPAST XCBPAST XCBPSW XCBTYP XCHEWN XCBCCC XCBPAST XCBCCC XCBPAST XCBCCC XCBPAST XCBTYP XCBCCC XCBCCC XCCCC XCCCCC XCCCC XCCC XCCC XCCCC XCCC XCC	1023 3614 116 2318 800 60 480 77 7988 66 498 66 384 52 1418 184 184 184 187 185 131 26008 1052 317 10735 1112 5171 5171 5171 5171 5171 5171 517	5235   3615   640   236   73   488   429   804   478   7462   749   1825   3419   3418   2321   3418   2321   35349   7601   3187   5001   3197   5001   3197   5001   3198   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642   4642    4642   4642   4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642    4642	5252 3618 655 261 260 671 432 946 432 9465 1144 1828 4326 2331 4325 4326 2331 5004 3835 3063 257 5004 3835 3063 257 5079	262 314 676 440 593 984 171 522 128 427 259 5504 1835 5097 3005* 5005 4127 3072 4536 5080	263 400 680 441 173 777 787 5506 3019 4137 5082	433 770 177 672 399 5507	436 805 188 799 478	47 <i>0</i>	520 471	553	606#	617			SEQ 0168
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SEQ (	2 1	77

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. V4 400 . V4 4100 . V4 4100 . V4 4100 . V4 4100 . V4 4100 . V4 5110 . V4 5110 . V4 5110 . V4 5110 . V4 5110 . V5 200 . V5 200 . V5 200 . V5 3100 . V6 315 . V6 31	4523 21286 1655 1665 5207 3251 4061 4235 5402 4990 1790 5323 4567 1790 5323 4567 1427 1427 1427 1427 1427 1427 1427 142	4569 2174 251 1061 1659 18478 52608 4262 42428 54408 48678 51078 20158 46058 22168 42538 46058 221708 1320 54538 42538 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 42158 4	2218# 1285 1849# 1848# 4413 4073 3090 4303	1414 44164 4887 3095# 4351	1451# 4193	4252#			46028						SEQ 0178
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. V4400 . V4440 . V44464 . V44516 . V4516 . V4516 . V4516 . V4526 . V4535 . V4547 . V5000 . V5060 . V5261 . V5322 . V5322 . V5340 . V5322 . V5340 . V5530 . V5732 . V5375 . V6355 . V6355 . V6355 . V6357 . V6363 . V6357 . V6363 . V6732 . V77347 . V77347 . V77347 . V77347	4523 2128 1236 1655 1665 5207 3251 4061 1790 1990 1996 4821 1790 1796 1798 4821 1790 1796 1798 1798 1798 1798 1798 1798 1798 1798	4569 2174 251 1051 1659 18478 52604 32864 4362 42424 48878 51078 20158 18388 54518 22238 44658 22108 24538 28898 14378 27098 1320 54538 42468 42538 16528 22128 52664 46038 55628 22128 52664 56048 46038 55628 22128 51639 42448 42438	2218# 1285 1849# 1848# 4413 4073 3090 4303	1414 44164 4887 3095# 4351	1451# 4193	4252#			46028						SEQ 0178
. V4 303 . V4 400 . V4 446 . V4 4466 . V4 516 . V4 516 . V4 516 . V4 526 . V4 535 . V4 547 . V5 900 . V5 200 . V5 200 . V5 200 . V5 300 . V6 315 . V6 315 . V6 355 . V6 355 . V6 355 . V6 355 . V6 357 . V6 366 . V6 731 . V6 731 . V7 73 47 . V7 73 47 . V7 73 47 . V7 73 47 . V7 75 10 . V7 75 10	4523 2128 2128 1236 1655 1665 5207 4061 4235 4491 1790 1796 4821 4821 4821 4821 4821 4821 4821 4821	4569 2174 1251 10619 18478 52608 12866 4262 42428 54408 48678 52618 54518 22238 54518 22238 54518 22128 54518 22128 54568 64688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688 66688	2218# 1285 1849# 1848# 4413 4073 3090 4303 4303 4326 4971 2371	1414 44164 4887 3095# 4351	1451# 4193	4252#			4692\$						SEQ 0178
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.V7551	4383	4418#	5282	5420	5456#		
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.V7574	4774	4891#					
. V7600	563	750#					
. V7640	4441	4614#					
. 7663	5125	5265#					
. V7664	1521	1647#	3574	3622#			
.V7670	3708	3772#					
. 77700	175	203#	1896	1897	2020#	3683	3778#
.V7745	3496	3625#					
.V7746	1498	1650#	3582	3621#			
.V7747	3501	3624#					
. 77757	5383	5443#					
¥7762	4921	5114#					
.V7771	5321	5452#					
.V7774	581	749#					
.V7775	486	532#					

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