

ERROR RETRIEVAL AND PRINT PROGRAM USER'S GUIDE

TABLE OF CONTENTS		PAGE
01.00.00	INTRODUCTION	02
02.00.00	ERROR RETRIEVAL AND PRINT PROGRAM LOADING AND RUNNING	03
02.01.00	ERROR RETRIEVAL AND PRINT PROGRAM OPERATIONAL MESSAGES	04
02.02.00	ERROR RETRIEVAL AND PRINT PROGRAM ERROR MESSAGES	05
03.00.00	ERROR RETRIEVAL AND PRINT PROGRAM SAMPLE SESSION	06
03.01.00	SAMPLE SESSION #1	06
03.02.00	SAMPLE SESSION #2	07
03.03.00	SAMPLE SESSION #3	08
04.00.00	FORMAT OF SYSTEM ERROR LOG RECORDS	09
04.01.00	CONTROL RECORD	09
04.02.00	PROCESSING UNIT CHECK RECORD	09
04.03.00	DEVICE RECORD	10
04.03.01	DEVICE ERROR/TIME-OUT RECORD	10
04.03.02	DEVICE SOFT ERROR RECORD	10
04.03.03	DEVICE HARD ERROR RECORD	11
04.03.04	COMMUNICATIONS STATISTICS LOG RECORD	11
04.04.00	NOT EXPECTED INTERRUPT RECORD	12
04.05.00	SYSTEM TERMINATION RECORD	12
04.06.00	USER/OTHER SYSTEM RECORD	12
05.00.00	ERROR RETRIEVAL AND PRINT PROGRAM SAMPLE OUTPUT	13
05.01.00	PROCESSING UNIT MACHINE CHECK	13
05.02.00	PROCESSING UNIT PROGRAM CHECK	14
05.03.00	PROCESSING UNIT SOFT EXCEPTION CHECK	15
05.04.00	DEVICE ERRORS - ALL TYPES	16
05.05.00	NOT EXPECTED INTERRUPT	18
05.06.00	SYSTEM TERMINATION	18
05.07.00	USER/OTHER SYSTEM DATA	18

01.00.00 INTRODUCTION.

THE PURPOSE OF THIS MAP IS TO DESCRIBE TO THE USER HOW TO SETUP AND USE THE ERROR RETRIEVAL AND PRINT PROGRAM. EACH RECORD FORMAT ASSEMBLED BY THE REAL TIME PROGRAMMING SYSTEM AND EACH OUTPUT FROM THE ERROR RETRIEVAL AND PRINT PROGRAM WILL BE DESCRIBED.

THE PURPOSE OF THIS PROGRAM IS TO PRESENT THE DATA ASSOCIATED WITH AN ERROR USING A READABLE OUTPUT FOR USE BY THE CUSTOMER OR CE.

THE FOLLOWING RECORD TYPES ARE FORMATTED BY ERROR RETRIEVAL AND PRINT PROGRAM.

CONTROL RECORD
PROCESSING UNIT RECORDS
MACHINE CHECK
PROGRAM CHECK
SOFT EXCEPTION CHECK
DEVICE RECORDS
DEVICE NOT RECOVERED
DEVICE RECOVERED
DEVICE SOFT ERROR
DEVICE HARD ERROR
DEVICE TIME-OUT
NOT EXPECTED INTERRUPT RECORDS
SYSTEM TERMINATION RECORDS
USER RECORDS
OTHER SYSTEM RECORDS

02.00.00 ERROR RETRIEVAL AND PRINT PROGRAM LOADING AND RUNNING

SEE MAP 0015 SECTION 02.00.00 TO IPL THE SYSTEM TEST DISKETTE AND COME TO 'RDY ENTER' (MESSAGE CODE 3400).

THE FOLLOWING ECP COMMAND(S) IS/ARE ACTIVE WHILE THE ERROR RETRIEVAL AND PRINT PROGRAM IS IN STORAGE.

```
0 A NO RESPONSE TO A QUESTION
1 A YES RESPONSE TO A QUESTION
2 CONTINUE RUNNING AT THE NEXT SEQUENTIAL INSTRUCTION
3 STOP PROGRAM
4 START PROGRAM
5 DUMP STORAGE
6 RESPOND TO PROGRAM
```

NOW ENTER, BY THE ALTERNATE CONSOLE, 'B34E0'. THIS WILL LOAD THE ERROR RETRIEVAL AND PRINT PROGRAM AND START A SERIES OF MESSAGES TO SETUP THE PROGRAM TO PROCESS THE ERROR RECORDS FROM THE REAL TIME PROGRAMMING SYSTEM 'SYSTEM ERROR LOG' DATA SET.

EXAMPLE: (ASSUME A DISPLAY IS THE ORIGINAL CONSOLE)

```
RDY
ENTER THE RDY ENTER IS A RESULT OF THE IPL
B34E0
U34E0 LOADED
ST
PRINTER CONSOLE PREFERRED
IS A 4973 OR 4974 AVAILABLE?
ENTER
```

ANY MESSAGE ENDING WITH A QUESTION MARK FOR EXAMPLE 'IS ONE AVAILABLE?' MUST BE ANSWERED WITH A YES OR NO. SEE MAP 0015 SECTION 03.00.00.

THE MESSAGE 'IS A 4973 OR 4974 AVAILABLE?' IS NECESSARY TO DETERMINE IF A PRINTER AVAILABLE FOR PRINTING THE ERROR RETRIEVAL AND PRINT PROGRAM OUTPUT. PRINTER IS PREFERRED FOR KEEPING THE ERROR DATA.

IF ONE IS AVAILABLE THEN ANSWER YES AND SUPPLY THE DEVICE ADDRESS.

EXAMPLE: THIS IS A YES (1) RESPONSE.

```
1
ENTER PRINTER CONSOLE ADDRESS
ENTER
F01
```

THIS DEVICE ADDRESS MUST BE THE ADDRESS OF A 4973 OR 4974 ECP CONSOLE SUPPORTED PRINTER. THE ERROR RETRIEVAL AND PRINT PROGRAM WILL VERIFY THE DEVICE ADDRESS BEFORE CONTINUING.

IF A PRINTER CONSOLE IS NOT AVAILABLE ANSWER NO AND ERROR RETRIEVAL AND PRINT PROGRAM WILL USE THE TTY OR DISPLAY TO OUTPUT THE ERROR DATA. USING SCREEN CONTROL WILL PREVENT THE LOSS OF DATA.

EXAMPLE: THIS IS A NO (0) RESPONSE.

```
0
ENTER SYSTEM DISK ADDRESS
ENTER
F03
```

ERROR RETRIEVAL AND PRINT PROGRAM WILL USE THE DEVICE ADDRESS FOR THE DISK WHICH HAS THE SYSTEM ERROR LOG DATA SET. REAL TIME PROGRAMMING SYSTEM DISK FORMAT IS THE ONLY ACCEPTABLE SYSTEM FORMAT.

ANSWER EACH QUESTION CONCERNING RECORD FORMATTING AND THE INITIALIZATION OF THE SYSTEM ERROR LOG DATA SET.

EXAMPLE: SHOULD ALL RECORDS BE PRINTED?

```
ENTER
1 THIS IS A YES (1) RESPONSE.
SHOULD SYSTEM ERROR LOG BE INITIALIZED?
ENTER
1 THIS IS A YES (1) RESPONSE.
IS THE VOLUME LABEL CONTAINING SYSTEM ERROR LOG 'SYSERLOG'?
ENTER
0 THIS IS A NO (0) RESPONSE.
ENTER EIGHT CHARACTER VOLUME LABEL CONTAINING ERROR LOG
ENTER
ESVL
ENTER EIGHT CHARACTER SYSTEM ERROR LOG LABEL
ENTER
FSYSERLOG
```

ERROR RETRIEVAL AND PRINT PROGRAM WILL USE THE EIGHT CHARACTER LABELS RECEIVED TO SEARCH WITH TO LOCATE THE TWO DATA SETS.

CONSOLE BEING CHANGED FOR FORMATTING

```
*****
* AT THIS POINT THE RECORD DATA WILL BE PRINTED. *
* SEE THIS MAP SECTION 05.00.00 *
*****
```

```
BT
ENTER
```

THIS IS THE END OF THE ERROR RETRIEVAL AND PRINT PROGRAM RUN. SEE SECTION 03.00.00 SAMPLE SESSION FOR ANY OPTION THE USER MAY SELECT.

02.01.00 ERROR RETRIEVAL AND PRINT PROGRAM OPERATIONAL MESSAGES AND CODES

- 34E0 PRINTER CONSOLE PREFERRED
IS A 4973 OR 4974 AVAILABLE?
IS THERE A PRINTER ON THE SYSTEM.
- 34E1 ENTER PRINTER CONSOLE ADDRESS
ENTER THE DEVICE ADDRESS OF THE PRINTER TO BE USED FOR THE PRINTED OUTPUT.
- 34E2 ENTER THE SYSTEM DISK ADDRESS
ENTER THE DEVICE ADDRESS OF THE DISK THAT HAS THE REAL TIME PROGRAMMING SYSTEM AND THE
SYSTEM ERROR LOG DATA SET.
- 34E3 SHOULD SYSTEM ERROR LOG BE INITIALIZED?
AFTER FORMATTING ALL OF THE RECORDS FOUND ON SYSTEM ERROR LOG DATA SET SHOULD THE CONTROL
RECORD BE INITIALIZED TO INDICATE THE DATA SET IS EMPTY.
- 34E4 SHOULD ALL RECORDS BE PRINTED?
ARE ALL RECORDS TO BE PRINTED OR DO YOU WANT TO PRINT ONLY SELECTED RECORDS FROM THE SYSTEM
ERROR LOG DATA SET.
- 34E5 ENTER RECORD TYPES DESIRED
ENTER FROM THE MENU THE RECORD TYPES TO BE PRINTED (MAXIMUM OF 7 PERMITTED).
- 34E6 SHOULD ALL DEVICE RECORDS BE PRINTED?
SHOULD ALL OF THE DEVICE RECORDS BE PRINTED OR DO YOU WANT TO PRINT ONLY THE RECORDS FOR
SELECTED DEVICE ADDRESSES.
- 34E7 ENTER DEVICE ADDRESSES DESIRED
ENTER THE DEVICE ADDRESSES FOR THE DEVICE RECORDS TO BE PRINTED (MAXIMUM OF 10 PERMITTED).
- 34E8 IS THE VOLUME LABEL CONTAINING SYSTEM ERROR LOG 'SYSERLOG'?
AFTER RELEASE 1.1 OF THE REAL TIME PROGRAMMING SYSTEM THIS QUESTION SHOULD BE ANSWERED
(YES). BEFORE THIS RELEASE THIS QUESTION SHOULD BE ANSWERED (NO).
- 34E8 ENTER EIGHT CHARACTER VOLUME LABEL CONTAINING ERROR LOG
ENTER THE LABEL THAT HAS BEEN ASSIGNED TO THE SYSTEM VOLUME WHICH CONTAINS THE SYSTEM ERROR
LOG DATA SET (EIGHT CHARACTERS).
- 34E8 ENTER EIGHT CHARACTER SYSTEM ERROR LOG LABEL
ENTER THE LABEL THAT HAS BEEN ASSIGNED TO THE SYSTEM ERROR LOG DATA SET (EIGHT CHARACTERS).
- 34E9 THIS IS THE MESSAGE CODE USED WITH EACH LINE OF PRINTED OUTPUT THAT REPRESENTS RECORD DATA.

** THREE ECP MESSAGE CODES ARE USED WHEN THE CONSOLE IS CHANGED **

- 3401 THIS CODE IS USED TO INDICATE THAT THE DISPLAY CONSOLE FAILED TO RESPOND CORRECTLY WHEN
BEING RETURNED ONLINE. THE PROGRAMMER CONSOLE HAS BEEN ASSIGNED.
- 3407 CONSOLE BEING CHANGED FOR FORMATTING
THE DISPLAY CONSOLE HAS BEEN REMOVED AND WAS EXCHANGED WITH THE PRINTER SPECIFIED.
- 3408 CONSOLE RETURNED
THE DISPLAY CONSOLE HAS BEEN RETURNED AND CAN AGAIN BE USED FOR ECP INPUT.

02.02.00 ERROR RETRIEVAL AND PRINT PROGRAM ERROR MESSAGES AND CODES

- 34EA PRINTER CONSOLE NOT USABLE
THE PRINTER CONSOLE SPECIFIED DOES NOT RESPOND TO NORMAL OPERATION OR THE CONSOLE ROUTINE
COULD NOT BE READ INTO STORAGE. THE PROGRAM WILL BE TERMINATED.
- 34EB DATA SET ***** NOT FOUND ON DISK
THE '*****' FIELD IN THIS MESSAGE WILL BE THE NAME OF A DATA SET WHICH SHOULD BE ON THE
REAL TIME PROGRAMMING SYSTEM DISK. ERROR RETRIEVAL AND PRINT PROGRAM COULD NOT FIND THAT
DATA SET AND THE PROGRAM WILL BE TERMINATED.
- 34EC DISK DOES NOT RESPOND TO INITIALIZE COMMANDS
ONE OF THE FOLLOWING ERRORS OCCURRED DURING THE PREPARATORY SETUP OF THE REAL TIME
PROGRAMMING SYSTEM DISK:
- BAD OIO CONDITION CODE FROM PREPARE COMMAND.
- BAD OIO CONDITION CODE FROM READ DEVICE ID COMMAND.
- DEVICE ID RETURNED FROM THE REAL TIME PROGRAMMING SYSTEM DEVICE INDICATED WAS NOT A DISK.
- BAD OIO CONDITION CODE FROM RECALIBRATE COMMAND.
- BAD OIO CONDITION CODE FROM READ CYCLE STEAL STATUS COMMAND.
- BAD INTERRUPT CONDITION CODE FROM RECALIBRATE OPERATION.
- BAD INTERRUPT CONDITION CODE FROM READ CYCLE STEAL STATUS OPERATION.
- 34ED DISK ERROR WHILE SEARCHING FOR DATA SET *****
THE '*****' FIELD IN THIS MESSAGE WILL BE THE NAME OF A DATA SET WHICH SHOULD BE ON THE
REAL TIME PROGRAMMING SYSTEM DISK. ERROR RETRIEVAL AND PRINT PROGRAM RECEIVED AN ERROR
RESPONSE FROM THE DISK WHILE SEARCHING FOR THE DATA SET AND THE PROGRAM WILL BE TERMINATED.
- 34EE DISK ERROR READING SYSTEM ERROR LOG
ERROR RETRIEVAL AND PRINT PROGRAM RECEIVED AN ERROR RESPONSE FROM THE DISK WHILE READING
RECORDS FROM THE SYSTEM ERROR LOG DATA SET.
- 34EF DISK ERROR WRITING SYSTEM ERROR LOG
ERROR RETRIEVAL AND PRINT PROGRAM RECEIVED AN ERROR RESPONSE FROM THE DISK WHILE WRITING
THE CONTROL RECORD IN THE SYSTEM ERROR LOG DATA SET.

03.00.00 ERROR RETRIEVAL AND PRINT PROGRAM SAMPLE SESSION

WILL INDICATE EACH ENTRY TO BE MADE BY THE OPERATOR

03.01.00 SAMPLE SESSION #1

SAMPLE SESSION TO PRINT ALL RECORDS ON A DISPLAY AND NOT INITIALIZE SYSTEM ERROR LOG.
IPL THE SYSTEM TEST DISKETTE PER SECTION 02.00.00 MAP 0015 WITH SCREEN CONTROL ON.

```
RDY
ENTER
B34E0
U34E0 LOADED ###
ST
PRINTER CONSOLE PREFERRED
IS A 4973 OR 4974 AVAILABLE?
ENTER
ENTER ###
ENTER SYSTEM DISK ADDRESS
ENTER
ENTER ###
F03 SHOULD ALL RECORDS BE PRINTED?
ENTER
ENTER ###
SHOULD SYSTEM ERROR LOG BE INITIALIZED?
ENTER
ENTER ###
IS THE VOLUME LABEL CONTAINING SYSTEM ERROR LOG 'YSERLOG'?
ENTER
ENTER ###
ENTER EIGHT CHARACTER VOLUME LABEL CONTAINING ERROR LOG
ENTER
SYSRESVL ###
ENTER EIGHT CHARACTER SYSTEM ERROR LOG LABEL
ENTER
FSYERLOG ###
*****
* AT THIS POINT THE RECORD DATA WILL BE DISPLAYED. *
* SEE THIS MAP SECTION 05.00.00 *
*****
BT
ENTER
```

03.02.00 SAMPLE SESSION #2

SAMPLE SESSION USING A DISPLAY CONSOLE AND CHANGE TO A PRINTER TO PRINT ALL RECORDS AND INITIALIZE SYSTEM ERROR LOG.
IPL THE SYSTEM TEST DISKETTE PER SECTION 02.00.00 MAP 0015 WITH SCREEN CONTROL ON.

```
RDY
ENTER
B34E0
U34E0 LOADED ###
ST
PRINTER CONSOLE PREFERRED
IS A 4973 OR 4974 AVAILABLE?
ENTER
ENTER ###
ENTER PRINTER CONSOLE ADDRESS
ENTER
ENTER ###
ENTER SYSTEM DISK ADDRESS
ENTER
ENTER ###
F03 SHOULD ALL RECORDS BE PRINTED?
ENTER
ENTER ###
SHOULD SYSTEM ERROR LOG BE INITIALIZED?
ENTER
ENTER ###
IS THE VOLUME LABEL CONTAINING SYSTEM ERROR LOG 'YSERLOG'?
ENTER
ENTER ###
ENTER EIGHT CHARACTER VOLUME LABEL CONTAINING ERROR LOG
ENTER
SYSRESVL ###
ENTER EIGHT CHARACTER SYSTEM ERROR LOG LABEL
ENTER
FSYERLOG ###
CONSOLE BEING CHANGED FOR FORMATTING
*****
* AT THIS POINT THE RECORD DATA WILL BE PRINTED ON THE *
* DEVICE WITH AN ADDRESS OF 01. *
* SEE THIS MAP SECTION 05.00.00 *
*****
CONSOLE RETURNED
BT
ENTER
```

03.03.00 SAMPLE SESSION #3

SAMPLE SESSION USING A DISPLAY CONSOLE AND CHANGE TO A PRINTER TO PRINT ONLY DEVICE RECORDS FOR DEVICE ADDRESSES 00, 01, AND 04
 IPL THE SYSTEM TEST DISKETTE PER SECTION 02.00.00 MAP 0015 WITH SCREEN CONTROL ON.

```

RDY
ENTER
B34EO
U34EO LOADED ***
ST
PRINTER CONSOLE PREFERRED
IS A 4973 OR 4974 AVAILABLE?
ENTER
ENTER PRINTER CONSOLE ADDRESS ***
ENTER
F01
ENTER SYSTEM DISK ADDRESS ***
ENTER
F03
SHOULD ALL RECORDS BE PRINTED?
ENTER
0
ENTER RECORD TYPES DESIRED ***
01 - MACHINE CHECK
02 - PROGRAM CHECK
03 - SOFT EXCEPTION CHECK
04 - DEVICE
05 - NOT EXPECTED INTERRUPT
06 - SYSTEM TERMINATION
07 - USER/OTHER SYSTEM
ENTER
F04
SHOULD ALL DEVICE RECORDS BE PRINTED?
ENTER
0
ENTER DEVICE ADDRESSES DESIRED ***
ENTER
F000104
IS THE VOLUME LABEL CONTAINING SYSTEM ERROR LOG 'YSYERLOG'?
ENTER
ENTER EIGHT CHARACTER VOLUME LABEL CONTAINING ERROR LOG
ENTER
ENTER EIGHT CHARACTER SYSTEM ERROR LOG LABEL
ENTER
YSYERLOG ***
CONSOLE BEING CHANGED FOR FORMATTING
*****
* AT THIS POINT THE RECORD DATA WILL BE PRINTED ON THE *
* DEVICE WITH AN ADDRESS OF 01. *
* SEE THIS MAP SECTION 05.00.00 *
*****
CONSOLE RETURNED
PT
ENTER
    
```

04.00.00 FORMAT OF SYSTEM ERROR LOG RECORDS

THIS SECTION WILL DESCRIBE THE FORMAT OF THE VARIOUS RECORDS TO BE FOUND ON THE SYSTEM ERROR LOG DATA SET.

04.01.00 CONTROL RECORD

FLAG FIELD
 BIT 10 - CONTROL RECORD

BYTE 1	BYTE 2	BYTE 3	BYTE 4	BYTE 5	BYTE 6	BYTE 7	BYTE 8
RECORD LENGTH	PARTITION NUMBER	FLAG FIELD		ACTIVE TCB ADDRESS		ADDRESS KEY REGISTER (AKR)	
TIME OF DAY (HHMMSS)			DATE (YYDDD)			ACTIVE LEVEL	NOT USED
OLD RECORD ADDRESS RELATIVE RECORD # OLDEST RECORD				NEXT RECORD ADDRESS RELATIVE RECORD # NEXT RECORD SPACE			
CURRENT RECORD ADDRESS RELATIVE RECORD # LAST RECORD READ							

04.02.00 PROCESSING UNIT CHECK RECORDS

FLAG FIELD
 BIT 0 - MACHINE CHECK RECORD
 BIT 1 - PROGRAM CHECK RECORD
 BIT 2 - SOFT EXCEPTION CHECK RECORD

BYTE 1	BYTE 2	BYTE 3	BYTE 4	BYTE 5	BYTE 6	BYTE 7	BYTE 8
RECORD LENGTH	PARTITION NUMBER	FLAG FIELD		ACTIVE TCB ADDRESS		ADDRESS KEY REGISTER (AKR)	
TIME OF DAY (HHMMSS)			DATE (YYDDD)			ACTIVE LEVEL	NOT USED
FAILING ADDRESS		INSTRUCTION ADDRESS REGISTER (IAR)		ADDRESS KEY REGISTER (AKR)		LEVEL STATUS REGISTER (LSR)	
REGISTER 0 (R0)		REGISTER 1 (R1)		REGISTER 2 (R2)		REGISTER 3 (R3)	
REGISTER 4 (R4)		REGISTER 5 (R5)		REGISTER 6 (R6)		REGISTER 7 (R7)	
TERMINATION END CODE (CC)		PROGRAM STATUS WORD (PSW)			ADDRESS KEY (AAK)		

04.03.00 DEVICE RECORDS

04.03.01 DEVICE ERROR/TIME-OUT RECORD

FLAG FIELD

- BIT 3 - DEVICE RECORD
- BIT 4 - DEVICE TIME-OUT RECORD
- BIT 5 - NOT RECOVERED ERROR FLAG
- BIT 12 - NOT COMPLETE RECORD (BITS 3 OR 5 ON)

BYTE 1	BYTE 2	BYTE 3	BYTE 4	BYTE 5	BYTE 6	BYTE 7	BYTE 8
RECORD LENGTH	PARTITION NUMBER	FLAG FIELD		ACTIVE TCB ADDRESS		ADDRESS KEY REGISTER (AKR)	
TIME OF DAY (HHMMSS)		DATE (YYDD)		ACTIVE LEVEL	NOT USED		
DEVICE READ ID		IMMEDIATE DEVICE CONTROL BLOCK (IDCB)			DEVICE ADDRESS	RETRY COUNT	
OIO CONDITION CODE	INTERRUPT CONDITION CODE	INTERRUPT STATUS BYTE	DEVICE STATUS (6 BYTES)				
DCB COUNT IN RECORD		CYCLE STEAL STATUS WORDS (CSSW) (10 BYTES)					
DEVICE CONTROL BLOCK(S) 1 TO 5 (DCB) (UP TO FIVE) (16 BYTES EACH)							

04.03.02 DEVICE SOFT ERROR RECORD

FLAG FIELD

- BIT 12 - SOFT ERROR RECORD - DISK/DISKETTE

BYTE 1	BYTE 2	BYTE 3	BYTE 4	BYTE 5	BYTE 6	BYTE 7	BYTE 8
RECORD LENGTH	PARTITION NUMBER	FLAG FIELD		ACTIVE TCB ADDRESS		ADDRESS KEY REGISTER (AKR)	
TIME OF DAY (HHMMSS)		DATE (YYDD)		ACTIVE LEVEL	NOT USED		
DEVICE READ ID		IMMEDIATE DEVICE CONTROL BLOCK (IDCB)			DEVICE ADDRESS	RETRY COUNT	
OIO CONDITION CODE	INTERRUPT CONDITION CODE	INTERRUPT STATUS BYTE	DCB COUNT IN RECORD	DEVICE CONTROL BLOCK(S) 1 TO 3 (DCB) (UP TO THREE) (16 BYTES EACH)			
RESIDUAL STATUS BLOCK(S) 1 TO 3 (RSB) (UP TO THREE) (12 BYTES EACH)							

04.03.03 DEVICE HARD ERROR RECORD

FLAG FIELD

- BIT 13 - HARD ERROR RECORD - DISK/DISKETTE

BYTE 1	BYTE 2	BYTE 3	BYTE 4	BYTE 5	BYTE 6	BYTE 7	BYTE 8
RECORD LENGTH	PARTITION NUMBER	FLAG FIELD		ACTIVE TCB ADDRESS		ADDRESS KEY REGISTER (AKR)	
TIME OF DAY (HHMMSS)			DATE (YYDD)		ACTIVE LEVEL	NOT USED	
DEVICE READ ID		IMMEDIATE DEVICE CONTROL BLOCK (IDCB)			DEVICE ADDRESS	RETRY COUNT	
OIO CONDITION CODE	INTERRUPT CONDITION CODE	INTERRUPT STATUS BYTE	DCB COUNT IN RECORD	DEVICE CONTROL BLOCK(S) 1 TO 3 (DCB) (UP TO THREE) (16 BYTES EACH)			
RESIDUAL STATUS BLOCK(S) 1 TO 2 (RSB) (UP TO TWO) (12 BYTES EACH)							
CYCLE STEAL STATUS WORDS (CSSW) (UP TO 13 WORDS)							

04.03.04 COMMUNICATIONS STATISTICS LOG RECORD

FLAG FIELD

- BIT 11 - COMMUNICATIONS STATISTICS LOG RECORD

BYTE 1	BYTE 2	BYTE 3	BYTE 4	BYTE 5	BYTE 6	BYTE 7	BYTE 8
RECORD LENGTH	PARTITION NUMBER	FLAG FIELD		LINE TYPE	DEVICE ADDRESS	COUNT OF CORRECT TEXT BLOCKS RECEIVED OR TRANSMITTED	
COUNT OF NAKS RECEIVED		COUNT OF NOT VALID RESPONSES RECEIVED		COUNT OF DATA OVERRUNS		COUNT OF TIME-OUT	
COUNT OF BLOCK CHECK CHARACTER (BCC) ERRORS		COUNT OF MODEM ERRORS		COUNT OF CC/ISB ERRORS		COUNT OF VRC ERRORS	

04.04.00 NOT EXPECTED INTERRUPT RECORDS

FLAG FIELD
 BIT 4 - NOT EXPECTED INTERRUPT RECORD

BYTE 1	BYTE 2	BYTE 3	BYTE 4	BYTE 5	BYTE 6	BYTE 7	BYTE 8
RECORD LENGTH	PARTITION NUMBER	FLAG FIELD		ACTIVE TCB ADDRESS		ADDRESS KEY REGISTER (AKR)	
TIME OF DAY (HHMMSS)			DATE (YYDD)		ACTIVE LEVEL	NOT USED	
INTERRUPT ID WORD							

04.05.00 SYSTEM TERMINATION RECORDS

FLAG FIELD
 BIT 6 - SYSTEM TERMINATION RECORD

BYTE 1	BYTE 2	BYTE 3	BYTE 4	BYTE 5	BYTE 6	BYTE 7	BYTE 8
RECORD LENGTH	PARTITION NUMBER	FLAG FIELD		ACTIVE TCB ADDRESS		ADDRESS KEY REGISTER (AKR)	
TIME OF DAY (HHMMSS)			DATE (YYDD)		ACTIVE LEVEL	NOT USED	
TERMINATION END CODE (CC)							

04.06.00 USER/OTHER SYSTEM RECORDS

FLAG FIELD
 BIT 7 - USER RECORD
 BIT 6 - OTHER SYSTEM RECORD

BYTE 1	BYTE 2	BYTE 3	BYTE 4	BYTE 5	BYTE 6	BYTE 7	BYTE 8
RECORD LENGTH	PARTITION NUMBER	FLAG FIELD		USER/OTHER SYSTEM DATA (124 BYTES MAXIMUM)			

05.00.00 ERROR RETRIEVAL AND PRINT PROGRAM SAMPLE OUTPUT

THIS SECTION WILL DESCRIBE THE PRINTED OUTPUT OF THE VARIOUS RECORDS PRINTED BY THE ERROR RETRIEVAL AND PRINT PROGRAM

THE DATA USED IN THIS SAMPLE IS NOT REAL ERROR DATA AND IS USED TO SHOW FORMAT ONLY.

05.01.00 PROCESSING UNIT MACHINE CHECK

** PROCESSING UNIT MACHINE CHECK LOG SUMMARY **

DATE/TIME	LVL	R0	R1	R2	R3	LSR	PSW	TCB	AAK	PART
77 182	02	0000	1111	2222	3333	0000	0000	0000	00	00
13.45.01	0000	4444	5555	6666	7777	0000		0000	0000	
77 190	--	----	----	----	----					
23.10.20	--	----	----	----	----					

MEANING OF LABEL USED

- DATE - YEAR DAY (YYDD)
- TIME - HOUR, MINUTE, SECOND (HHMMSS)
- LVL - INTERRUPT LEVEL USED
- IAR - INSTRUCTION ADDRESS REGISTER
- R0 - REGISTER ZERO
- R1 - REGISTER ONE
- R2 - REGISTER TWO
- R3 - REGISTER THREE
- R4 - REGISTER FOUR
- R5 - REGISTER FIVE
- R6 - REGISTER SIX
- R7 - REGISTER SEVEN
- LSR - LEVEL STATUS REGISTER
- AKR - ADDRESS KEY REGISTER
- PSW - PROGRAM STATUS WORD
- TCB - TASK CONTROL BLOCK
- CC - SYSTEM TERMINATION END CODE
- AAK - ACTIVE ADDRESS KEY
- FADR - FAILING ADDRESS
- PART - SYSTEM PARTITION NUMBER

05.02.00 PROCESSING UNIT PROGRAM CHECK

** PROCESSING UNIT PROGRAM CHECK LOG SUMMARY **

DATE/ TIME	LVL/ IAR	R0/ R4	R1/ R5	R2/ R6	R3/ R7	LSR/ AKR	PSW	TCB/ CC	AAK/ FADR	PART
77 182	02	0000	1111	2222	3333	0000	0000	0000	00	00
13.45.01	0000	4444	5555	6666	7777	0000		0000	0000	
77 190	--	----	----	----	----	----				
23.10.20	----	----	----	----	----	----				

MEANING OF LABEL USED

DATE - YEAR DAY (YYDDD)
TIME - HOUR MINUTE SECOND (HHMMSS)
LVL - INTERRUPT LEVEL USED
IAR - INSTRUCTION ADDRESS REGISTER
R0 - REGISTER ZERO
R1 - REGISTER ONE
R2 - REGISTER TWO
R3 - REGISTER THREE
R4 - REGISTER FOUR
R5 - REGISTER FIVE
R6 - REGISTER SIX
R7 - REGISTER SEVEN
LSR - LEVEL STATUS REGISTER
AKR - ADDRESS KEY REGISTER
PSW - PROGRAM STATUS WORD
TCB - TASK CONTROL BLOCK
CC - SYSTEM TERMINATION END CODE
AAK - ACTIVE ADDRESS KEY
FADR - FAILING ADDRESS
PART - SYSTEM PARTITION NUMBER

05.03.00 PROCESSING UNIT SOFT EXCEPTION CHECK

** PROCESSING UNIT SOFT EXCEPTION CHECK LOG SUMMARY **

DATE/ TIME	LVL/ IAR	R0/ R4	R1/ R5	R2/ R6	R3/ R7	LSR/ AKR	PSW	TCB/ CC	AAK/ FADR	PART
77 182	02	0000	1111	2222	3333	0000	0000	0000	00	00
13.45.01	0000	4444	5555	6666	7777	0000		0000	0000	
77 190	--	----	----	----	----	----				
23.10.20	----	----	----	----	----	----				

MEANING OF LABEL USED

DATE - YEAR DAY (YYDDD)
TIME - HOUR MINUTE SECOND (HHMMSS)
LVL - INTERRUPT LEVEL USED
IAR - INSTRUCTION ADDRESS REGISTER
R0 - REGISTER ZERO
R1 - REGISTER ONE
R2 - REGISTER TWO
R3 - REGISTER THREE
R4 - REGISTER FOUR
R5 - REGISTER FIVE
R6 - REGISTER SIX
R7 - REGISTER SEVEN
LSR - LEVEL STATUS REGISTER
AKR - ADDRESS KEY REGISTER
PSW - PROGRAM STATUS WORD
TCB - TASK CONTROL BLOCK
CC - SYSTEM TERMINATION END CODE
AAK - ACTIVE ADDRESS KEY
FADR - FAILING ADDRESS
PART - SYSTEM PARTITION NUMBER

05.04.00 DEVICE ERRORS - ALL TYPES

** DEVICE ERROR LOG **

ADDRESS 09 TYPE BSCA S.L. READ ID 1006
DATE 77 182 LVL 00 TCB 0000 AKR 0000 PART 00
TIME 13.45.01 OIOCC 00 RETRY 00 IDCB 0000 0000
INTCC 00 ISB 00 STATUS 112233445566

NOT RECOVERED
CSSW 1111 2222 3333 4444 5555
DCB1 1111 2222 3333 4444 5555 6666 7777 8888
DCB2 1111 2222 3333 4444 5555 6666 7777 8888
DCB3 1111 2222 3333 4444 5555 6666 7777 8888
DCB4 1111 2222 3333 4444 5555 6666 7777 8888
DCB5 1111 2222 3333 4444 5555 6666 7777 8888

DATE 77 190 LVL 00 TCB 0000 AKR 0000 PART 00
TIME 23.10.20 OIOCC 00 RETRY 00 IDCB 0000 0000
TIME-OUT INTCC 00 ISB 00 STATUS 112233445566
RECOVERED NOT COMPLETE RECORD

** COMMUNICATIONS STATISTICS COLLECTED COUNTS ***

ADDRESS 09 LINE TYPE BSCA PART 00
COUNT OF RECORDS 10
TEXT BLOCKS XMIT/RCV 123456789
NAKS RCV 123456789
NOT VALID RESPONSE 123456789
DATA OVERRUNS 123456789
TIME-OUTS 123456789
BCC ERRORS 123456789
MODEM ERRORS 123456789
CC/ISB ERRORS 123456789
VRC ERRORS I

ADDRESS 13 TYPE DISK READ ID 3206

DATE 77 182 LVL 00 TCB 0000 AKR 0000 PART 00
TIME 13.45.01 OIOCC 00 RETRY 00 IDCB 0000 0000
INTCC 00 ISB 00

NOT RECOVERED
CSSW 1111 2222 3333 4444 5555 6666 7777 8888
RSB1 1111 2222 3333 4444 5555 6666
RSB2 1111 2222 3333 4444 5555 6666
RSB3 1111 2222 3333 4444 5555 6666
DCB1 1111 2222 3333 4444 5555 6666 7777 8888
DCB2 1111 2222 3333 4444 5555 6666 7777 8888
DCB3 1111 2222 3333 4444 5555 6666 7777 8888

ADDRESS 12 TYPE DISKETTE READ ID 3206

DATE 77 182 LVL 00 TCB 0000 AKR 0000 PART 00
TIME 13.45.01 OIOCC 00 RETRY 00 IDCB 0000 0000
INTCC 00 ISB 00

RECOVERED
RSB1 1111 2222 3333 4444 5555 6666
RSB2 1111 2222 3333 4444 5555 6666
RSB3 1111 2222 3333 4444 5555 6666
DCB1 1111 2222 3333 4444 5555 6666 7777 8888
DCB2 1111 2222 3333 4444 5555 6666 7777 8888
DCB3 1111 2222 3333 4444 5555 6666 7777 8888

ADDRESS 00 TYPE TTY READ ID 0010

DATE 77 182 LVL 00 TCB 0000 AKR 0000 PART 00
TIME 13.45.01 OIOCC 00 RETRY 00 IDCB 0000 0000
INTCC 00 ISB 00 STATUS 112233445566

NOT RECOVERED

** DEVICE ERROR SUMMARY **

DEVICE ADDRESS	COUNT OF RECORDS	COUNT OF TIME-OUT	COUNT OF TEMPORARY	COUNT OF PERMANENT	COUNT OF NOT COMPLETE
09	12	01	01	01	01
13	01	00	00	01	00
12	01	00	01	00	00
00	01	00	00	01	00

MEANING OF LABEL USED

ADDRESS - DEVICE ADDRESS
TYPE - DEVICE NAME
READ ID - DEVICE READ ID
DATE - YEAR DAY (YYDD)
TIME - HOUR MINUTE SECOND (HHMMSS)
LVL - INTERRUPT LEVEL USED
OIOCC - OIO INSTRUCTION CONDITION CODE
INTCC - INTERRUPT CONDITION CODE
TCB - TASK CONTROL BLOCK
RETRY - RETRY COUNT (COUNT IN DECIMAL)
ISB - INTERRUPT STATUS BYTE
AKR - ADDRESS KEY REGISTER
IDCB - IMMEDIATE DEVICE CONTROL BLOCK
STATUS - DEVICE STATUS
PART - SYSTEM PARTITION NUMBER
TIME-OUT - DEVICE TIME-OUT ERROR
NOT RECOVERED - PERMANENT (NOT RECOVERED DEVICE ERROR)
RECOVERED - TEMPORARY (RECOVERED DEVICE ERROR)
NOT COMPLETE - NOT ENOUGH STORAGE TO ASSEMBLE THE FULL RECORD
CSSW - CYCLE STEAL STATUS WORDS
RSB1/3 - RESIDUAL STATUS BLOCK (UP TO THREE)
DCB1/5 - DEVICE CONTROL BLOCK (UP TO FIVE)
LINE TYPE - TYPE OF COMMUNICATION LINE
BCC - BLOCK CHECK CHARACTER
VRC - VERTICAL REDUNDANCY CHECK

05.05.00 NOT EXPECTED INTERRUPT

** NOT EXPECTED INTERRUPT LOG SUMMARY **

DATE	TIME	LVL	TCB	AKR	PART	ID
77 182	13.45.01	00	0000	0000	00	0000
77 190	23.10.20	--	----			

MEANING OF LABEL USED

DATE - YEAR DAY (YYDD)
TIME - HOUR MINUTE SECOND (HHMMSS)
LVL - INTERRUPT LEVEL USED
TCB - TASK CONTROL BLOCK
AKR - ADDRESS KEY REGISTER
PART - SYSTEM PARTITION NUMBER
ID - INTERRUPT IDENTIFICATION

05.06.00 SYSTEM TERMINATION

** SYSTEM TERMINATION LOG SUMMARY **

DATE	TIME	LVL	TCB	AKR	PART	TERM	CC
77 182	13.45.01	00	0000	0000	00	0000	
77 190	23.10.20	--	----				

MEANING OF LABEL USED

DATE - YEAR DAY (YYDD)
TIME - HOUR MINUTE SECOND (HHMMSS)
LVL - INTERRUPT LEVEL USED
TCB - TASK CONTROL BLOCK
AKR - ADDRESS KEY REGISTER
PART - SYSTEM PARTITION NUMBER
TERM CC - SYSTEM TERMINATION END CODE

05.07.00 USER/OTHER SYSTEM DATA

** USER/OTHER SYSTEM LOG *** DUMP OF EACH RECORD FOLLOWS **

0000	7C00	0100	2222	3333	4444	5555	6666	7777
0010	0000	1111	2222	3333	4444	5555	6666	7777
0020	0000	1111	2222	3333	4444	5555	6666	7777
0030	0000	1111	2222	3333	4444	5555	6666	7777
0040	0000	1111	2222	3333	4444	5555	6666	7777
0050	0000	1111	2222	3333	4444	5555	6666	7777
0060	0000	1111	2222	3333	4444	5555	6666	7777
0070	0000	1111	2222	3333	4444	5555	6666	7777
0000	7C00	0080	2222	3333	4444	5555	6666	7777
0010	0000	1111	2222	3333	4444	5555	6666	7777
0020	0000	1111	2222	3333	4444	5555	6666	7777
0030	0000	1111	2222	3333	4444	5555	6666	7777
0040	0000	1111	2222	3333	4444	5555	6666	7777
0050	0000	1111	2222	3333	4444	5555	6666	7777
0060	0000	1111	2222	3333	4444	5555	6666	7777
0070	0000	1111	2222	3333	4444	5555	6666	7777
0000	1000	0100	2222	3333	4444	5555	6666	7777
0010	0000	1111	2222	3333	4444	5555	6666	7777
0000	1000	0080	2222	3333	4444	5555	6666	7777
0010	0000	1111	2222	3333	4444	5555	6666	7777

USER/OTHER SYSTEM DATA WILL START WITH THE THIRD
WORD OF EACH DUMP (ADDRESS 0004).