

UNIVAC

1103

**EXEC 8
ERROR ANALYSIS
VIDEO SEMINAR**

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PREFACE

HOW TO USE THE MATERIAL

To derive maximum benefit from the EXEC 8 Video Presentation, the seminar should be conducted in the following manner:

1. This supporting documentation should be read by each participant.
2. The video tape presentation should then be shown.
3. Following the viewing, a seminar-type discussion group should then be formed to talk over all the points raised in the presentation.

CONTENTS

PREFACE	1
CONTENTS	1 to 2
1. ERROR ANALYSIS INFORMATION	1-1 to 1-12
1.1. <u>INTRODUCTION</u>	1-1
1.2. <u>ADDRESSING</u>	1-1
1.3. <u>SWITCH LIST (SWL)</u>	1-2
1.4. <u>RUN ORIENTED TABLES</u>	1-2
1.4.1. PROGRAM CONTROL TABLE (PCT)	1-2
1.4.2. CORE BUFFER QUEUE/CORE QUEUE ENTRY (CBQ/CQE)	1-2
1.4.3. CORE REQUEST QUEUE ENTRY/CHAINED CORE REQUEST (CRQE/CCR)	1-3
1.4.4. RUN CONTROL TABLE (RCT)	1-3
1.4.5. READ\$ DATA TABLE/PRINT\$ DATA TABLE (RD\$DT/PR\$DT)	1-3
1.5. <u>ACTIVITY ORIENTED TABLES</u>	1-3
1.5.1. ACTIVITY CONTROL AREA (AS)	1-3
1.5.2. MINOR SAVE AREA	1-4
1.5.3. MAJOR SAVE AREA	1-4
1.5.4. SUBSTATUS AREA	1-4
1.6. <u>ADDITIONAL AIDS IN ERROR ANALYSIS</u>	1-4
1.6.1. DOCUMENTATION ELEMENTS	1-4
1.6.2. SYMACT	1-4
1.6.3. DA	1-5
1.6.4. DISP	1-5
1.6.5. SYMDRM	1-5
1.6.6. SYMBUF	1-5
1.6.7. SMQUES	1-5
1.6.8. TIME	1-5
1.6.9. BUFR	1-5
1.6.10. FUNCTION LOADER TABLE	1-6
1.6.11. LOCTAB	1-6
1.6.12. IOCTAD	1-7
1.6.13. SUBSYSTEM TABLES/UNIT STATUS	1-7
2. SAMPLE ERROR ANALYSIS	2-1 to 2-20
2.1. <u>INTRODUCTION</u>	2-1
2.2. <u>DUMP ANALYSIS</u>	2-1
2.3. <u>CONCLUSION</u>	2-4

FIGURES

1-1. IOCTAD, Subsystem Status, Unit Status Functional Representation	1-7
1-2. IOCTAD Entry Format	1-8
1-3. Standard Handler Interface Subsystem Table	1-9
1-4. ADH Subsystem Table	1-10
1-5. MSHP Subsystem Table	1-10
1-6. Unit Status Table	1-10
1-7. Unit Status Entry	1-11
1-8. Functional Representation of Run and Activity Tables	1-12
2-1. Sample Panic Dump Printout	2-5

1. ERROR ANALYSIS INFORMATION

1.1. INTRODUCTION

EXEC 8 error analysis is the study of panic dumps taken when the executive system stops or fails to respond. The main aim of error analysis is to determine why the stop occurred. This seminar is concerned with the philosophy and the approach to the error analysis factors which are used to determine cause of the stop and that no particular error will be discussed.

Communications error analysis is covered in the Communications Handler/User Seminar (see UNIVAC 1108 Multi-Processor System EXEC 8 Communication Handler/User Video Seminar 8VT-3).

1.2. ADDRESSING

Two methods of addressing are used in constructing pointers in the executive tables:

Absolute Addressing

The absolute pointer address is an absolute address pointing to the item. No modification to this address is required to locate the item to which it is pointing.

Relative Addressing

Relative addressing can take many forms. The two most common forms are PSR relative and buffer relative addresses. These types of relative addressing should not be confused with the type of relative addressing described in the UNIVAC 1108 Multi-Processor System Assembler Programmers Reference Manual, UP-4040 (current version).

- PSR Relative

Addresses that are PSR relative require that the value in the B_D field of the processor state register (PSR) be added to the address in the pointer word to form an absolute address. This absolute address can then be found in the panic dump.

- Buffer Relative

Pointer addresses that are buffer relative (that is, index values) require that the absolute address of the first word of the table or buffer containing the pointer be added to the index value to form the absolute address. Buffer relative addresses may be either positive or negative.

With this information, we can begin to describe the structure of the tables the executive builds to control a run. Each of these tables contains one or more pointer words. From these pointers, we can compute the absolute address to be used in locating other tables. These tables control the execution of the task, the run, and the executive. Although the tables are briefly discussed in the following sections, a detail definition of each can be found in EXEC 8 Internal Organization Video Seminar 8VI-1. Also, references to individual words within tables are based upon word 1 being the first word in the table.

1.3. SWITCH LIST (SWL)

The switch list allows the executive to control activity execution within the execution mix. There is one switch for each activity. Switch lists are either built in EXPOOL or predefined switch lists are built into the executive element whose execution they control. Wait indicators, and the type and level at which this activity is executing, are the kinds of information contained in this buffer. The switch lists are chained at their appropriate type and level; chaining is indicated in word 1 and type and level in word 5 of the switch list.

Switch lists contain four half word addresses that point to other tables:

H2,word 2	PCT address [ABS]
H2,word 5	CBQ/CQE address [PSR]
H1,word 3	RD\$DT address [PSR]
H1,word 2	Activity control area address [ABS]*

Since the executive uses the SWL table for execution control, the SWL becomes the user's key to all run and activity oriented tables within the system (see Figure 1-8).

1.4. RUN ORIENTED TABLES

1.4.1. PROGRAM CONTROL TABLE (PCT)

H2 of word 2 of the activity oriented table SWL contains an absolute pointer to the PCT.

The PCT for a run is broken into a run control section (RCS) and program control section (PCS). The RCS contains such information as max time, priority, run ID, and so forth.

The PCS is of major interest, since it contains control information about program execution:

H1,word 076	Last active ASA for this program [PCT]
H2,word 0101	SWL for last ER requested [ABS]
Word 0103	PCT linkage [ABS] to other PCT's (that is, runs) in the system

1.4.2. CORE BUFFER QUEUE/CORE QUEUE ENTRY (CBQ/CQE)

H2 of word 5 of the activity oriented SWL table contains a pointer [PSR] to the CBQ/CQE. CBQ/CQE (one for each run) is built by CSN/CSP and passed to the dynamic allocator for use in allocating main storage for this run. It contains information about main storage and the loading requirements for the current task in this run.

The table pointers located in this EXPOOL buffer are:

H1,word 4	CRQE/CCR address [PSR]
H2,word 4	RCT address [PSR]
H1,word 5	RD\$DT/PR\$DT address [PSR]
H2,word 5	PCT address [ABS]

*The letters or word in the brackets give the type of addressing used in the pointer.

ABS = absolute address

other than ABS = relative address to the buffer or register specified within the bracket

1.4.3. CORE REQUEST QUEUE ENTRY/CHAINED CORE REQUEST (CRQE/CCR)

CRQE/CCR further expands on the information needed to allocate main storage. I and D bank requirements, swap file information, and PCT requirements are the types of data contained in this EXPOOL buffer. The CRQE/CCR's are chained on type and level and there is only one for each open run. A pointer [PSR] back to the CBQ/CQE is maintained in H2 of word 4.

1.4.4. RUN CONTROL TABLE (RCT)

The RCT contains the run ID from the RUN card, the file name for loading the current task for this run, and a PSR relative pointer to the CBQ/CQE. The RCT's are chained for all open runs in the system; the linkage is maintained as two half word pointers:

H1, word 6	Address of last RCT [PSR]
H2, word 6	Address of next RCT [PSR]
also, H2, word 2	CBQ/CQE address [PSR]

1.4.5. READ\$ DATA TABLE/PRINT\$ DATA TABLE (RD\$DT/PR\$DT)

The SWL contains in H1 of word 3 an absolute pointer to the RD\$DT/PR\$DT for this run.

The RD\$DT is a 16-word table that controls the data transfer to and from mass storage and the user.

Word 2 contains the buffer control pointers:

H1, word 2	Address of last buffer in chain [PSR]
H2, word 2	Address of current buffer in use [PSR]

The PR\$DT is allocated for 16 words following the RD\$DT table and it contains the PRINT\$ file buffering:

H1, word 2	Address of beginning buffer in chain [PSR]
H2, word 2	Address of current buffer in use [PSR]

Both tables contain an address specifying the location of the user's I/O buffer (DESTAD) and these READ\$, PRINT\$ buffers are chained in their 28th word where H2 is a forward pointer to the next buffer in the chain.

These run oriented tables and buffers provide, through their contents, a complete picture of the status of the run. One set of these tables may be found for each run open in the system.

1.5. ACTIVITY ORIENTED TABLES

1.5.1. ACTIVITY CONTROL AREA (ASA)

This table is built in PCT buffers. It has several other names: activity status area, activity save area.

The ASA contains information about the execution of its corresponding activity. The processor state and storage limits registers for this activity are saved in the activity's ASA. The ASA's are linked by forward and backward pointers [PCT] in word 0, and all of the activity save areas for a program are chained in this manner. Five pointers of interest are found in the ASA:

H2, word 1	Re-entry address [Relative to the activity PSR in word 3]
H1, word 4	SWL address [PSR]
H1, word 7	WAIT\$ packet address [PSR]
H2, word 7	Minor save area buffer [ASA]

H1 word 5 contains either the user's quantum or a pointer to the function loader packet if this activity was loaded by the function loader.

1.5.2. MINOR SAVE AREA

The minor save area (built in PCT buffers) contains the user minor register set (X8-X11,A0-A5, R1-R3) and pointers to the other two save areas:

- H2,word 1 Major save area address [Minor save relative]
- H1,word 2 Substatus save area address [Minor save relative]

1.5.3. MAJOR SAVE AREA

The major save area (also in PCT buffers) contains the user major register set: (X1-X7,A6-A15,ICR 28,ICR 29,R4-R15).

1.5.4. SUBSTATUS AREA

The substatus area (also in PCT buffers) contains the re-entry address [activity PSR], the storage limits register, and the processor state register for this activity.

There is one ASA and at least one minor save area for each activity generated by the current program. The other save areas are built within PCT buffers as required.

1.6. ADDITIONAL AIDS IN ERROR ANALYSIS

There are other places within the executive system where information can be found to aid in error analysis. These aids are found in the code itself.

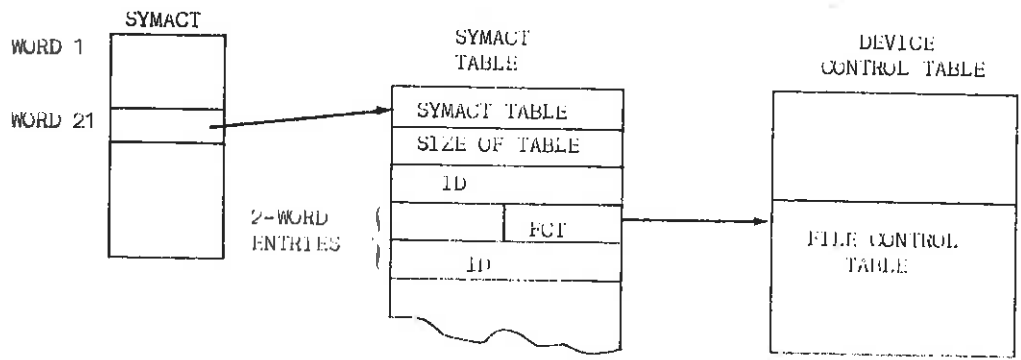
1.6.1. DOCUMENTATION ELEMENTS

There are several elements within the executive that are purely for documentation purposes. Two of these are CSDOC, which gives table layouts for LOCTAB and defines system tags; and SMTAGS, which provides equates for defining the symbiont control tables among other things. PCT, SGX, and BUFR are also among this type of element.

1.6.2. SYMACT

The element SYMACT contains a pointer [PSR] in word 21 to the SYMACT table. This table points to the active symbionts. The SYMACT table consists of 2-word entries. These entries follow control information which provide the links to other SYMACT tables, and the size and number of entries in this table:

- Word 1 Symbiont ID in Fieldata
- H2,word 2 Address of file control table which is part of the device control table



1.6.3. DA

The element DA contains the main storage bit maps giving the amount of main storage currently allocated.

1.6.4. DISP

The element DISP contains the action words for the CPU's in the system, one for each CPU. These action words contain the address [PSR] of the current active SWL for that CPU. Also contained in the same element are the type and level queue words. These words contain pointers [PSR] to the head and tail of the switch list chain of activities running at that corresponding type and level.

1.6.5. SYMDRM

The element SYMDRM contains the 324-word block for transfer to or from drum.

1.6.6. SYMBUF

The element SYMBUF contains the SMRUNT table giving the run ID's of the run that generated the files being processed by the symbionts.

1.6.7. SMQUES

The element SMQUES contains the symbiont queuing information.

1.6.8. TIME

The element TIME contains a pointer to the chain of SWL's in the timed activity queue.

1.6.9. BUFR

BUFR is the final element to be discussed. This element contains both documentation and pointers. It is the last executive element loaded and contains sentinels indicating the end of the executive's I and D banks. The end of the executive's I bank is found preceding a word of all 2's (Fielddata M's). The D bank indicator is a word of all 1's (Fielddata D's).

There is another sentinel in BUFR that also occurs near the end of executive's D bank. This is a word consisting of H1=0-02, H2=DHL (in Fielddata).

The end of the executive D bank is of particular use in dump analysis. Between the two sentinels there are some identifiers and pointers.

The pointers beginning at the sentinel word containing 0-02DHL, are:

H1, word 1	Address of function loader table [PSR]
H2, word 1	Address of action word for CPU's [PSR]
H1, word 2	Address of IOCTAD Table [PSR]
H2, word 2	Address of LOCTAB Table [PSR]

Word 3 indicates for Roseville the processor on which the dump is taken in the Test Center - generally this does not occur in user systems. Therefore, the identifiers are:

Word 3 } Versions of executives
Word 4 } and libraries in Fielddata

0-02	DHL	FCN LDR [PSR]	ACT WD [PSR]	IOCTAB [PSR]	LOCTAB [PSR]	X7	EXEC VERSION	LIB	1-1
0		1		2		3	4	5	6

1.6.10. FUNCTION LOADER TABLE

The function loader table consists of 3-word packets. Each packet corresponds to an executive nonresident element. This packet controls the loading and queuing of the requests for the function.

35	29	23	17	11	5	0
TS	LOAD FLAG	LEVEL	RE-ENTRANT	COUNT	LENGTH	
DRUM ADDRESS			WAITING REQUESTS			
CORE ADDRESS			REQUEST	LENGTH		

Legend:

TS - Test and Set

LOAD FLAG - load in progress flag
= 0: no load in progress
≠ 0: load in progress

LEVEL - the function's level. All functions handled by the function loader are type 3, EXEC worker. Therefore, type is not given.

RE-ENTRANT - Bit 17 = 1 when function is active
Bit 17 = 0 when function is inactive
Bit 12 = 0 when function is not re-entrant
Bit 12 = 1 when function is re-entrant

COUNT - number of requests queued for this function

LENGTH - number of 01000-word blocks required for function

CORE ADDRESS - Absolute address of function or segment when loaded; field contains 0 when function or segment has not been loaded

REQUEST - <0 when function has been requested
>0 when no request for this function

LENGTH-IN-WORDS - size of function in words

WAITING REQUESTS - pointer [PSR] to EXPOOL buffer containing requests.

1.6.11. LOCTAB

The LOCTAB table contains the run control table (RCT) control information. The first word of the 2-word control packet indicates the number of run control tables in the system. Word 2 contains pointers [PSR] to the head and tail of the run control table chain.

1.6.12. IOCTAD

IOCTAD is a 16-word table (one table for each CPU) containing pointers to the subsystem tables. Each word in the IOCTAD tables corresponds to an I/O channel connected to the CPU. These tables are allocated on the tag MP in CONFIG. If $MP \geq 1$, then more than one table is required and the first entry for CPU 1 is the word following the entry corresponding to channel 15 on CPU 0, etc.

1.6.13. SUBSYSTEM TABLES/UNIT STATUS

The subsystem tables describe the type of subsystem connected to the corresponding I/O channel and provide a pointer to the unit status tables. The subsystem and unit status tables provide status information about the subsystem and units respectively. Detailed information about the structure of each of these tables is shown in Figures 1-1 through 1-3.

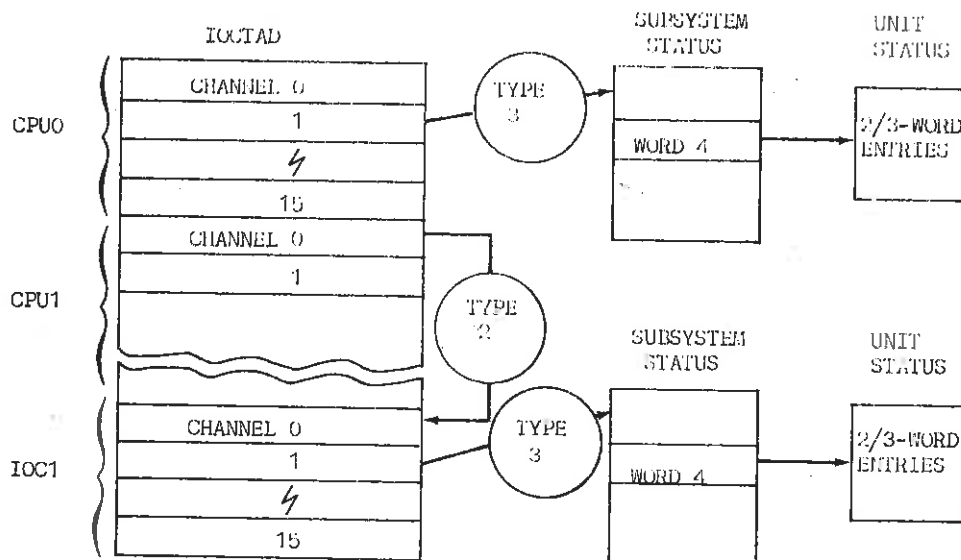
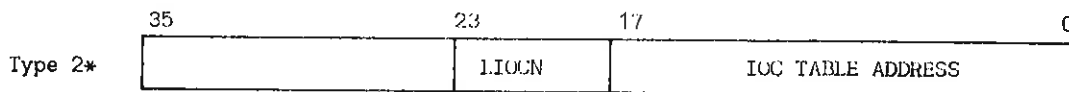


Figure 1-1. IOCTAD, Subsystem Status, Unit Status Functional Representation

UNIVAC 1108
EXEC 8 ERROR ANALYSIS VIDEO SEMINAR

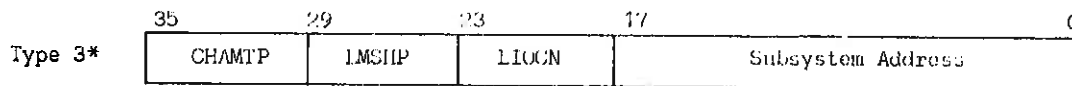


If the word is all zeros, there is no equipment on the corresponding channel.



If LIOC� is nonzero, then the entry indicates that an IOC is interfaced to the corresponding CPU channel.

- LIOC� - logical IOC number 1, 2, 3, or 4
- IOC TABLE ADDRESS - address of the 16-word table giving the pointers [PSR] to the subsystem status tables for the corresponding IOC channels.



If LIOC� is zero and H2 is nonzero, then this channel has a subsystem (i.e., tape) interfaced to it.

- CHAMTP - channel type
- 0 = ISI channel
- 1 = ESI channel

LMSHP - Logical Multiple High Speed Printer Number 1, 2, 3, etc. if a MHSP subsystem is configured for the channel

Subsystem Address - address of the subsystem status table [PSR]

Figure 1-2. IOCTAD Entry Format

*For a functional representation see Figure 1-1.

UNIVAC 1108 EXEC 8 ERROR ANALYSIS VIDEO SEMINAR

35	29	23	17	11	0
Real Time Queue Control Word					
Executive Queue Control Word					
Demand/Batch Queue Control Word					
MPA MODE	Number of Units	Length of Units Table	Unit Status Table Start		
SS Type*	Equipment Type	Start Unit (Hybrid Drum)	Alternate SS* Table Start or 0		
IOC Index Memory Control					
No. Items in SS Queue		Redundant Path Control			
Subsystem Timing Control					
Current IOC Control					
Link to ADH or S/G** Buffer			PCT Item Address [ABS]		
Corresponding Switch Link			Current Unit Status Item		
I/O Packet Address [ABS]			I/O Packet Address [PSR]		
ER Index		Unit Number		SS Number	
Index to Return Address					
CPU/IOC Control Word					
IOC Output Access Word					
IOC Input Access Word					
IOC Command					
EF Access Word					
Last Access Word					
External Interrupt Status Word					
External Function Word					
Search ID					
Tape and FASTRAND Subsystem Control Word					
Status of Current I/O					
I/O Access Word [ABS]					
Relative Drum Address					
Drum Subsystem Control Word					
Retry Indicators			Ext. Interrupt Table Start for Equip.		
I/O Error Control Word					
Handler Entry Control Word					
Drum Buffer Control Word					

*SS is the abbreviation for Subsystem

**S/G - Scatter/Gather

The standard handler subsystem table (Figure 1-3) is used only for standard subsystem handlers, and it, along with two variations of this table, is defined in the element IOT and the contents of the words are specified in the element PCT.

The variation on this standard table is merely the addition of 17 or 20 words for use by the arbitrary device handler (ADH) or the multiple high speed printer handler (MSHP) respectively, as these handlers require more operating information (see Figures 1-4 and 1-5).

See Figure 1-3. Standard Handler Interface Subsystem Table	} First 17 ₁₀ Words
Access Words External Function Words I/O Packer Buffer	

Figure 1-4. ADH Subsystem Table

See Figure 1-3. Standard Handler Interface Subsystem Table	} First 12 ₁₀ Words
See Figure 1-4. ADH Subsystem Table	
PCT Item Linkages Packet Links Queuing Information	} Additional 8-Word Extension

Figure 1-5. MSHP Subsystem Table

Word 1	}	OF UNIT STATUS ENTRY FOR UNIT 1
		2
		4
Word 2	}	OF UNIT STATUS ENTRY FOR UNIT 1
		2
		4
Word 3*	}	OF UNIT STATUS ENTRY FOR UNIT 1
		2
		4

For the format of the above entries see Figure 1-7.

*For devices that require only a 2-word entry, the area for the 3rd word is not allocated.

Figure 1-6. Unit Status Table

Word 1:

35	29	17	0
FASTRAND BANK #	STATUS	UNIT INFORMATION	

FASTRAND BANK # in use = 1,2,3,4

STATUS -

- Bit 18 - IN USE
- 19 - REWINDING
- 20 - DOWN
- 21 - INTERLOCK-BUSY
- 22 - UNIT BYPASS
- 23 - LOST POSITION
- 24 - MESSAGE HOLD
- 25 - INDEX MEMORY BYPASS
- 26 - INTERLOCK COMPLETION

UNIT INFORMATION -

1. TAPE UNIT

17	0
LF OR 0	

LF - last function given to unit
 0 - if arbitrary device handler had been referenced

2. FASTRAND UNIT

17	11	0
FB	Curr Pos	

FB - flag indicating Fastband
 CURR POS - current position being used

Word 2:

35	23	0
TIME FOR SERVICE MESSAGE*	NUMBER OF REFERENCES SINCE ERROR	

*FOR DRUM (FH-432/1782), T=0

Word 3: DRUM (FH-432/1782) only

35	29
ANG ADDR	SYSTEM TIME OF DAY (200 USEC INC)

ANG ADDR - Angular Address

Figure 1-7. Unit Status Entry

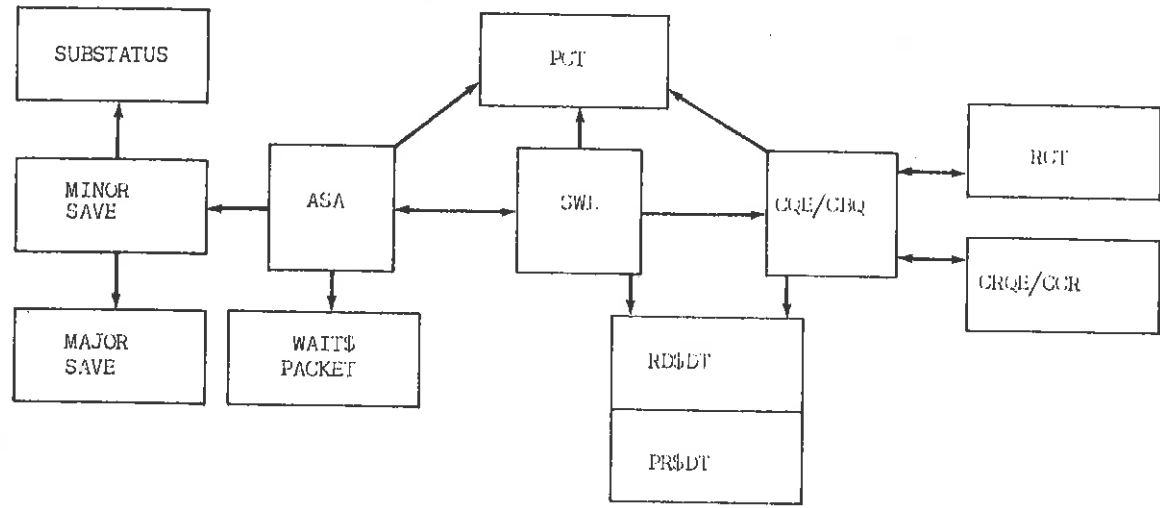


Figure 1-8. Functional Representation of Run and Activity Tables

2. SAMPLE ERROR ANALYSIS

2.1. INTRODUCTION

In order to begin the analysis of most panic dumps, the user and executive register sets must be located. The first 0200 locations (0-0177) of the printed dump correspond to these registers. The values in some of these registers have been changed due to the execution of the dump routine. The contents of the user and executive register sets, at the time the machine was stopped, are, however, saved after the ESI access control words. These registers are located by the following formula: start of user set = 0200+0100 x (number of CTMC's configured). The executive register set follows the user register set.

From this point on, all addresses mentioned are octal values and they will not be preceded by the customary 0.

2.2. DUMP ANALYSIS

The first register required in dump analysis is the PSR since many of the pointers are relative to the B_D value. (See Figure 2-1, Part 1.) This register is stored in executive register R13 which corresponds to location 135 in the printout. The value of the last nine bits (three octal characters) corresponds to the B_D value; in this case it is 200. This provides the processor state register bias of 200,000 for PSR relative addresses (since B_D gives the number of main storage blocks and each block represents an increment of 1000 words).

Considerations for proceeding in the dump are as follows:

(1) Referring to BUFR definition (see 1.0.9) and Part 1b of Figure 2-1, locate the:

BUFR sentinel words:

1-1 End of BUFR
0-02DHL Start of pointers

EXEC and library levels: 03.10.13WW.1

Pointers to:

Function Loader
Action Word (CPU 0)
IOCTAB
LOCTAB

(2) Using allocation and referring to Part 1b of Figure 2-1, locate:

EXEC PCT-TSTPCT

Timed activity queue (TWAITS)

(3) Using CPU 0's action word (322267) obtained from BUFR pointers in (1) and referring to Part 5 of Figure 2-1, locate the SWL active at the time the dump was taken. Since the current system was a 3x2 system with CPU 0 and CPU 1 downed at boot time, CPU 2 is the only CPU active. Therefore CPU 2's action word is located at CPU 0's action word +2 or 322271.

Active SWL equals 317:17 (117:17) (PSR_{10})

- (4) Using the active SWL from (3) and referring to Part 4 of Figure 2-1, locate the SWL entry:
- The pointer in word 2 points to a PCT; in this case, the EXEC PCT is as found in (?). Therefore, this is an executive worker activity (type 3) attached to the executive PCT.
 - Allocation shows that this entry is located within element DA, but generally SWL's are not contained within elements.

Since the DA's SWL was not chained to any other SWL, we have no information to enable us to proceed. Therefore, another approach would be:

- (5) Referring to Part 16 of Figure 2-1, obtain the pointer [PSR] to LOCTAB; and go to LOCTAB on Part 14 of Figure 2-1. LOCTAB contains the run control table control words (words 6 and 7) which indicate the open runs in the system.
- Word 6 indicates four active runs
 - Word 7 indicates head/tail [PSR] of the RCT chain:
HEAD = 333406
TAIL = 333506
- (6) Referring to Part 8 of Figure 2-1, go to the head of the RCT chain. Note that the entire chain is contained in this part as is indicated by word 6 of the individual RCT's. H1 is a backward link, H2 is the forward link, and 77 indicates the end in that direction.
- (7) Examine the RCT's
- Words 3 and 4 give the file from which the current task for this run was loaded, that is, TPF\$,CSINTNAME\$,LIB\$,LIB\$
 - Word 5 contains the unique run identification, that is, RRL, EKTEST,RRLA,EKTESA
 - Word 2 contains the pointer [PSR] to the CBQ/CQE
- (8) Selecting the CBQ/CQE pointer (335236) for RCT 4 with a run ID, ESTESA, and referring to Part 10 of Figure 2-1, find:
- H1 of word 4 - CCR pointer [PSR] - 334176
 - H1 of word 5 - RD\$DT/PR\$DT pointer [PSR] - 334216
- (9) Refer to Part 9 of Figure 2-1 for the CCR and RD\$DT from (8), and for the first switch list in the timed activity queue from (2).
- (10) In the CCR:
- Word 4 points back to the CBQ/CQE
 - S1 of word 3 indicates status of the CCR thereby inferring the run status. The value 01 indicates that the run has been swapped out.
- (11) In the RD\$DT/PR\$DT:
- Word 2 contains EBCL and CBCL, the buffer control words for RD\$DT.
 - Word 17 contains BBCL and CBCL, the buffer control words for PR\$DT.
- If we examine a buffer, either RD\$DT or PR\$DT, we can see how the buffers are chained.
- (12) Using BBCL (334416), find the first PRINT\$ buffer. Word 28 of this buffer contains the link pointer [PSR] to the next buffer in the chain, that is, 340456.
- (13) Although the timed activity SWL (334136) from in (2) has no connection with the current run, it is located in this part:
- Word 1 links to the next SWL (330556) in the queue
 - Word 4 contains the wait indicators where 04 indicates a wait state and 10 indicates that the type of wait is a timed wait.

- (14) Returning to the RCT chain (Part 8 of Figure 2-1), select the RCT for run ID EKTEST. Obtain the CBQ/CQE (331116) for this run and refer to Part 6 of Figure 2-1.
- H2 of word 5 points [ABS] to the PCT (162000) for this run.
- (15) In the PCT (162000) on Part 2 of Figure 2-1:
- Word 1 contains the run ID (EKTEST)
 - Word 103 contains the forward and backward pointers [ABS] in the PCT chain, that is, 45000 and 137000
 - Word 101 contains the pointer [ABS] to the SWL for the last executive worker attached to this PCT, that is, 330400
 - H1 of word 76 contains a pointer [PCT] to the ASA, that is, 777751
 - H2 of word 76 gives the number of activities for this run, that is, 5
- (16) Staying on Part 2 of Figure 2-1, go to ASA (1) at location 161751 (777751+ASA) and find in:
- H1 of word 7, the pointer [PSR] to the WAIT\$ packet (361721)
 - H2 of word 7, a pointer [ASA] to the minor save area (777750)
 - H2 of word 6, the pointer [PCT] to the next ASA (431). Note that zeros in H1 indicate no backward link.
 - H1 of word 4, the pointer [PSR] to the corresponding activity SWL (337400)
- (17) In going to the minor save area at location 161721 (777750+ASA) on the same part, we can see that words 1 and 2 are zero. This indicates that there is no major area or substatus save area for this activity.
- (18) Refer to (16) and find ASA(2) and ASA(3), at locations 162421 and 162431 respectively, on Part 2 of Figure 2-1. ASA(4) and ASA(5) can be found at locations 162561 and 162571 respectively on Part 3 of Figure 2-1.
- (19) Refer to ASA(5) word 4, where H1 contains the SWL pointer (331136) and H2 contains a code (13) indicating that the last EK issued by this activity was ER FORK\$.
- (20) Returning to Part 2 of Figure 2-1, obtain the SWL pointers for ASA(1) and ASA(2).
- SWL for ASA(1) = 337400
 - SWL for ASA(2) = 337116
- (21) Turn to Part 11 of Figure 2-1, and in looking at the SWL for ASA(1) found at 337116, see that:
- H2 of word 1 is zero indicating no backward link, but that H1 of word 1 points [PSR] to the SWL of ASA(2). Note that the SWL for ASA(2) has a backward pointer to ASA(1)'s SWL and no forward pointer.
 - Word 2 of either SWL contains the PCT pointer (162000) which indicates that these are two activities within the same run (EKTEST).
 - In word 5 of either SWL, both activities are operating at the same type and level (type 6 and level 11).
- (22) Use allocation and find where in the element DISP the type and level queues reside for switching. By turning to Part 5 of Figure 2-1, the control word corresponding to type 6 and level 11 can be found at location 322452, which contains the head and tail indicators for those SWL's described in (21).

Two pointers in BUFR, as given in (1), have yet to be looked at.

- (23) Refer to Part 12 of Figure 2-1 for the function loader table (344234). In scanning the 3-word packets for a nonzero H1 of word 3, one can find all nonresident functions which have been loaded into main storage by the function loader. That is, the 3-word packet starting at 344534 indicates that a function has been loaded at 131000 and its length, as indicated in H2 of word 3, is 363 words. By checking allocation, the length given corresponds to that of the element CSF.
- (24) Refer to Part 13 of Figure 2-1 to find the IOCTAD table at location 346464 as indicated by the final pointer in BUFR.
- Word 1 corresponds to channel 0 on CPU 0, and it is a type 2 entry as defined in Figure 1-2.
 - Word 3 corresponds to channel 2 on CPU 0 and is a type 3 entry as defined in Figure 1-2.
- (25) Using the subsystem address indicated in word 3 of the IOCTAD table, go to the subsystem status table (346604) on Part 13 of Figure 2-1.
- H2 of word 4 points [PSR] to the unit status table, that is, 350046.

Although significant amounts of information can be found from the BUFR pointers, the use of allocation in conjunction with the code for the executive can provide additional information. In addition to what has already been noted, allocation can provide another potentially useful item, the SYMACT table.

- (26) Using allocation, locate the SYMACT element to find the pointer [PSR] to the SYMACT table. Referring to Part 15 of Figure 2-1, the pointer is at location 366673, and the forward and backward links [PSR] of 332016 indicate only one SYMACT table.
- (27) Refer to Part 7 of Figure 2-1 for this 20-word table where the first two words are control words.
- S5 of word 1 indicates that this table can contain 16 entries.
 - S6 of word 1 shows that it currently contains seven entries.
 - Word 2 being zero indicates no linking, as was indicated in (26).
- (28) Look at one of the SYMACT table entries at location 332634.
- Word 1 indicates the symbiont ID (PR2).
 - S1 of word 2 contains the device association (44).
 - H2 of word 2 contains a pointer [PSR] to the file control portion of the device control table, that is, 335767.

2.3. CONCLUSION

In this presentation no solution was actually found, but the method of attack is illustrated using examples. With the use of the key pointers discussed, allocation, and the executive coding, a user should be able to find the current status of the system and indicators pointing to what has caused the fault.

80012A	JP 2 CORE FROM	To	400001	AT 165379	00000011311	000000011627	00002000020	000000000163
000000	301000177000	000000010520	000000011122	000000011557	016312000175	000012000000	000000000001	000000000001
000010	000002000002	000000000163	000000134176	000000000000	000000000000	000000000000	000000000000	000000000000
000020	000000000063	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000030	000000000047	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000040	00100000003676	000000000000	000000051640	000000131363	000000000000	000000000000	000000000000	000000000000
000050	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000060	000002000052	000000000000	000000034632	000000000000	000000000000	000000000000	000000000000	000000000000
000070	000000000000	00010336036	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000100	000000537716	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000110	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000120	000000000000	000001000362	000001000001	777777001513	000000000000	000000000000	000000000000	000000000000
000130	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000140	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000150	000000000000	000001002645	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000160	000000000000	000000400001	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000170	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000220	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000210	000000000005	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000220	000000000011	000000000012	000000000012	000000000013	000000000015	000000000017	000000000017	000000000017
000230	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000250	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000320	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000330	000000000001	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000340	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000350	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
000360	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000

PSR

Figure 2-1. Sample Panic Dump Printout (Part 1 of 16)

EXEC 8 ERROR ANALYSIS VIDEO SEMINAR

316550	567040000002	270260116401	060274000004	050014000005	467274000004	745660144000	467274000004	257340000004	277316000000
316560	270734000004	277340002000	742000144720	460260000017	745660144000	270300000014	270300000014	715454000001	461300150530
316570	745660127256	730040000022	277316000000	731040000022	730060000022	277277000000	277277000000	731460000022	742013000000
316600	400000000022	400000000023	061333000006	061333000017	267333000010	267333000021	267333000021	060333000007	060333000020
316620	247320000025	247320000022	237020000004	237020000005	244732000005	244320000005	244320000005	060333000010	060333000021
316630	267353000012	267353000022	247320000004	247320000005	277360000005	277360000004	277360000004	274373000010	274373000021
316640	247340000010	735040000003	731040000003	427020003777	427020003777	427020003777	427020003777	204201060000	100201060000
316650	345001000001	314500100001	245201060002	344500100102	23000060101	150202040000	140201060000	140201060000	26000060101
316660	345001000001	04000007132	05000007147	06100007311	07120007311	164500100002	375500100002	375500100002	324500100001
316670	54200007366	64130007370	30150007125	0160007125	70170007123	02310007332	34000007356	34000007356	50210007366
316700	00000116705	00000116710	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000
316710	00000136712	00000136712	00460000000	00000020000	00000020000	00000000000	00000000000	00000000000	00000000000
316720	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000
316730	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000
316740	000641116741	00000000000	00040135476	001700134176	00000000000	00000000000	00000000000	000641116737	00000000000
316750	650505050000	00000100000	00000010005	00000000000	00000000000	00000000000	00000000000	000600000000	137376137376
316760	04000000106	00000000000	00007777777	00177777777	00003771777	00000000247	00000000131	00000000000	000015000024
317000	00000000000	00000000000	00007777777	00177777777	60003771777	00000000000	00000000000	00017777760	00000000000
317020	00000000000	00000000000	00007777777	00177777777	60003771777	00000000000	00000000000	00017777760	00000000000
317040	00000000000	00000000000	00177777777	00177777777	77777777777	00000000000	00000000000	00017777760	00000000000
317060	00000000000	00000000000	00177777777	00177777777	77777777777	00000000000	00000000000	00017777760	00000000000
317100	00000000000	00000000000	00007777777	00177777777	60003771777	00000000000	00000000000	00017777760	00000000000
317120	00000000000	00000000000	00007777777	00177777777	60003771777	00000000000	00000000000	00017777760	00000000000
317140	00000000000	00000000000	00007777777	00177777777	60003771777	00000000000	00000000000	00017777760	00000000000
317160	00000000000	00000000000	00007777777	00177777777	60003771777	00000000000	00000000000	00017777760	00000000000
317200	00000000000	00000000000	00007777777	00177777777	60003771777	00000000000	00000000000	00017777760	00000000000
317220	317225976352	00000000003	00000000003	03080000000	00000000000	00000000000	00000000000	00000000000	00000000000
317230	117217000127	00000000000	00000000007	00000000007	00000000000	00000000000	00000000000	00000000000	200000043200
317240	000000135216	0000001144	00000017021	00000000000	00001200000	00000000000	00000000000	00000000000	00000000000
317250	00000000000	00000000305	00000000100	00000010520	00000000000	00000000000	00000000000	00000000000	00000000000
317260	00000000000	00000000063	00000000063	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000
317270	00000000047	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000
317300	00000000004	00000000010	00000000036	00000000100	00000000000	00000000000	00000000000	00000000000	00000000000
317310	00000000000	050505050505	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000
317400	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000
317420	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000
317430	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000	00000000000
317440	000190000001	00030000000	00000000027	00000000027	00000000043	00000000057	00000000000	00000000000	00000000000
317450	733030117424	733030117423	733030117423	733030117425	733030117427	733030117427	733030117421	733030117421	733030117422
317460	080000000136	737400116714	737400150444	617017000000	724020126402	530460160514	530460160514	530460160514	270300000136
317470	697415000000	724040126402	510017200027	742000117504	056400150444	270737200037	257320000001	257320000001	06073200027
317500	510000000177	742000117503	724040000127	742000117504	509417200030	056400150444	060300000136	060300000136	500000000136
317510	742000117515	742030117425	740420117515	740420117434	509417200030	742000117535	276337200030	276337200030	53702000004
317520	277300000005	065720116750	056400150444	056400116714	060300000136	501000116751	505400116750	505400116750	742000117474
317530	724400000127	277376000000	277300117217	745660117217	742017000000	056400150444	505417200030	270720116751	742000117531
317540	060720116751	740020117527	740020117527	741460117557	270677000004	730060000022	277317000000	277317000000	730060000022
317550	731400000005	731020000037	241313000003	100100116731	731115000004	400114000012	010134000012	010134000012	270730000000
317560	744416000000	40700000001	064370000003	064340116744	737400116714	745660150444	056400150444	056400150444	270360116744
317570	742000120502	270320000136	271317000003	05000000136	737400116714	516441400002	742000117701	742000117701	467357000000
317600	230020000016	277320000002	536434000002	742000117630	512014000002	742000117675	745660120310	745660120310	102114000001
317610	447100000004	742000117614	407100000001	012134000001	056601400002	277320000005	065734000002	065734000002	277340000013
317620	065354000002	745660120270	505400116750	742000117630	277300000005	065700116750	277300117217	277300117217	745660121172
317630	270300000152	731060000101	731060000022	100100000101	100100000101	271377000003	737417000006	737417000006	536537000002
317640	742000117651	056400116714	271314000001	461274200004	271334200004	501015000001	745660144156	745660144156	107100121002

SWL

PCT (EXEC) 376352

Figure 2-1. Sample Panic Dump Printout (Part 4 of 16)

EXEC 8 ERROR ANALYSIS VIDEO SEMINAR

321470	060316122475	267315000000	277354000002	250340000142	277320000000	347020000003	725400121477	7374914145265
321500	277350000003	066354145277	066354145277	06674145277	724016145268	743490121504	270320000142	066734145277
321510	742000121367	742000121367	742000121367	745760121726	745660154067	26702122267	270320000142	742011000000
321520	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	270320000142	270320000142
321530	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	270320000142	270320000142
321540	500000151416	500000151416	060320110376	10710000017	742000121545	10010000015	547100000002	107100000002
321550	276720000004	547060000004	742000121545	557100000765	107100000764	745760121726	745660015406	270300000136
321560	731020000036	573000000031	573000000031	270320000154	557000000000	742000121562	270315110702	247300000001
321570	060315110702	270702122267	270702122267	050402122267	277340000000	277340000000	730315110702	401054000000
321580	0561374000003	056400150435	7434900121573	277340000004	276774000004	7254900121574	737417150460	066354000003
321590	05647150460	7434900121602	7434900121602	317100000005	140100000157	010114000005	737402176343	270762176343
321610	740490121614	060702176343	270360000154	742000121636	550117000005	742000121620	060715000000	270762176343
321620	270360000157	740600121626	740600121626	550117000005	742000121620	060714000000	060715000000	270762176343
321630	527074000000	742000121652	742000121652	050000000100	010102175772	742000121637	725400121637	100102175772
321640	260320000100	157515000000	157515000000	742000121633	100157000005	210114000156	557160011610	742000121652
321650	010142175772	010160000100	010160000100	277374000000	274540000002	537040000077	743491000000	743490122572
321660	056400150446	277340000405	277340000405	50602121520	467340000006	742000121671	270360150473	737417176343
321670	277337176343	270755000000	730420000044	740020121702	527034000000	742000121671	270735000000	060734000000
321700	05647176343	742013000000	05647176343	477360000002	742000121667	742000121667	270340000000	74200001262
321710	277340000430	742000016262	277340000431	742000016262	055412300006	270720000001	515415200006	742013000000
321720	737400150444	257350000006	257350000006	065755200006	056490150444	742013000000	7254000121727	100142175772
321730	260340000100	7434900121732	157550000000	540142122244	742000122653	210114212244	010142122244	510020000152
321740	742000122134	270612000001	274320000002	547040000004	742000121752	277320000001	527034000004	277320000152
321750	200176122247	010215122247	776720000004	737400150452	260170200026	011202000026	056400150452	547040000004
321760	742017000000	550210200003	742000122072	527040000004	742000122034	737400150453	260170200026	500470200025
321770	742000121773	100220122254	010630200026	550610200025	742000122000	011202000025	056400150453	742017000000
322000	051010200025	056400150453	106212000004	537200000001	742017000000	537200000001	742000122023	147200000000
322010	016212000004	015612000004	237520000004	106552000004	537190000004	742017000000	737400150454	130550200004
322020	735140000001	010550200004	056400150454	056400150454	537190000004	742017000000	737400150454	130550200004
322030	100550200025	735140000001	010550200025	010550200025	045782122751	737400150454	201170200001	500470200004
322040	742000122043	100220122254	100630200004	550610200004	742000122000	011210200004	056400150454	742017000000
322050	051010200004	056400150454	100630200004	1001601500515	742000122050	011210200004	056400150454	742017000000
322060	737400150444	100630200004	147220000002	1001601500515	150162122244	147100000162	742000121736	277340000407
322070	267220026016	742000175340	105630200004	427220000010	100200000000	735220000001	010200000003	277340000407
322100	467260145532	100140000160	737400145633	745660127334	277320000002	060734000000	277320000003	066334000000
322110	277320000000	065734000001	467300000021	267334000005	060334000002	060734000000	277320000003	066334000000
322120	715620122255	715234000006	060334000006	107220000001	200220145634	011204000003	277300145634	060334000000
322130	100100000162	745660121172	276752000004	742000121763	270300150514	277340000003	742000121763	270642122267
322140	271212000001	515410200000	742000122211	270720000001	270300000004	737400150444	420000120032	740020122206
322150	275750200000	557040000004	742000122210	107120000001	735130000000	110000000161	420000000155	740020122206
322160	400132700031	010157200031	530157200032	742000122217	247357200032	056400150446	056400150446	737400116717
322170	743490000000	737400150443	272737200102	247320000001	550437200078	74200012213	062737200102	066400150443
322200	743490000000	056400116717	270300000152	467300010000	745620121512	742000122571	056400150446	742000122571
322210	056400116717	277340000404	742000016270	056400150443	743490122215	056400150446	737400150446	270320000157
322220	277300000000	06317600117	745660142633	410135300031	010135300031	277320000001	467340000001	107100000042
322230	060166000000	00122230	742000122206	725400015300	107160000000	742000122241	742000122241	742000176330
322240	054002146146	02146146	724005264003	742000152203	000000000000	000000000000	00220527007	00000047071
322250	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
322270	000000000000	000000117217	777000770000	000000000000	000000000000	000000000000	000000000000	000000000000
322300	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
322350	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
322450	000000000000	000000000000	137116137466	136266137126	182617120017	000000000000	000000000000	000000000000
322460	000000000000	000000000000	000000122426	000000122441	000000000000	000000000000	000000000000	000000000000
322470	000000000000	000000000000	000000122426	000000122441	000000000000	000000000000	000000000000	000000000000
322500	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
322510	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
322520	000000000000	000000000000	725400122513	724700000003	743000000000	000000000000	27024122247	743490122520
322530	060002122267	712100000001	270712000000	737414200100	247352000000	247352000000	201034000001	277234000000
322530	271355200000	247355000000	257330000000	600000000164	247340000001	247340000001	270754120000	060730200000

ACT WP CPU (2)

SMILES

Figure 2-1. Sample Panic Dump Printout - Part 4 of 5

EXEC 8 ERROR ANALYSIS VIDEO SEMINAR

333060	600505050505	050562050505	606462666663	050564626763	670505050505	001400010000	231310162047	741324270505
333070	050505050505	050561050505	050561050505	606066646761	056066676263	650505050505	050562050505	606462676460
333100	056066630605	670505050505	000400010000	050564050505	60606663606660	056066646363	600505050505	001000010000
333110	233106074774	132427050505	000034000000	600013000218	003001141312	000005131056	050505050505	050561050505
333120	060606626666	056066656460	600505050505	050562050505	600462646764	606066646663	670505050505	001400010000
333130	231322314774	132427050505	050505050505	050505050505	050561050505	606066646664	056066650505	620505050505
333140	050562050505	066462656460	056066626666	620505050505	001400010000	231624192747	741324270505	050505050505
333150	050505050505	050561050505	000034133056	00000000312	000000000000	00000514615	000000000000	000102777374
333160	200104733000	200104733000	200104746400	200104752000	200104755400	00000514615	000000000000	000000000000
333210	000000000000	000000000000	134276000000	00000013436	000010000030	000005146304	000000000000	000000000000
333220	061700000040	770101000000	010511060000	00000046650	000023000014	000000000000	000000000000	000000000000
333230	000000000000	000000000000	000000000000	000000000000	000176000000	000000000000	137256137656	000062000100
333240	000000000000	000001000000	00000130005	00003000018	000000000000	013104000144	000260000000	000000000000
333250	000000000000	000000000000	000000000000	000000000000	000000000000	00000514615	000102772124	200102772500
333260	000000000000	000000000000	200102703400	200102707000	200102712400	200102716000	200102721400	200102725000
333270	200102730400	200102734000	200102737400	200102743000	200102746400	200102752000	200102755400	200102761000
333310	200102764000	200102770000	200102773400	200102777000	200102802500	200102807000	200102812400	200102816000
333320	051223110505	050505071214	162305050505	000141606056	000000000000	000005131056	050505050505	050505050505
333330	051227050505	050505313406	163147050505	00062170505	050505050505	000105050505	052105050505	050505050505
333340	516062606156	31061414005	000505066256	050505050505	050505050505	051227050505	050505252711	14705050505
333350	000705066256	050505050505	000034133716	000000000000	000000000000	000040410515	002100000000	340000000000
333360	000000000000	135456000410	777777000120	14373143731	000001132756	000000000000	133502144325	2022265
333370	000000000000	000000000000	000000000000	000002144750	0000010777304	000000000000	133156000000	070000000000
333400	000102774300	000002144515	133616133452	000002144515	0000302144325	00010277304	000200000000	01316
333410	312513470505	050505050505	272721050505	000071133426	130231000010	130231000010	000200000000	01316
333420	020003120000	002270000363	000002000000	000100263766	000000000000	000000000000	000200000000	01316
333430	103016233123	062212470505	122031123031	133006133436	000000000000	000000000000	000200000000	040601331116
333440	211607470505	050505050505	272721060505	133266133506	134220001020	000002144515	135016131352	000040700000
333450	00010277214	000002144515	136456131346	000040700000	001010177340	000004137615	000000000000	300020043210
333460	000000000000	002204100000	000000000043	000000000000	005671000000	000100000007	00006677722	777777400001
333470	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	00002114004	000000134757
333500	00000134216	000000134216	000000134216	000000154000	133061003660	133061003660	000200000000	040601335236
333510	211607470505	050505050505	122031123006	133340000077	000000000000	000000000000	056060000000	042105050505
333520	001300010000	0606060606264	050505050505	05124222705	6660666426605	066764066064	056060000000	01060
333530	06244050505	050505050505	051705050505	05124222705	000600010000	050505050505	050505050505	050505050505
333540	050505050505	616541606005	421010050505	001300010000	606066066265	050505050505	050505050505	050505050505
333550	05606606060	60606606060	000034136216	000000000000	000000000000	000000000000	00005130224	606066626705
333560	63050606060	61600506060	000070010000	000000000000	050505050505	050505050505	60606603660	060606260
333570	61056060606	616305050505	00000010000	050505050505	050505050505	050505050505	0610314705	0400010000
333600	090505050505	050505050505	050505050505	063406163147	000400010000	050505050505	050505050505	050505050505
333610	110610314705	000400010000	000034135416	000000000000	000000000000	00000514615	00010177340	20010177250
333620	200101610000	200101613400	200101752000	200101761000	200101764400	200101770000	200101773400	200101000000
333630	200101003400	200101007000	200101012400	200101016000	200101021400	200101025000	200101030400	200101034000
333640	200101037400	200101043000	200101046400	200101052000	200101058400	200101061000	200101064400	200101070000
333650	200101073400	200101077000	000000000000	000000000000	000000000000	000005131056	05212170505	050505356161
333660	562041241020	000505050504	050505050505	050505050505	051705050505	050505050505	331206050505	000305051324
333670	061031366105	050505050505	052324250505	050505050505	050505050505	050505050505	052324250505	000505050000
333700	090606563205	050505066156	052156156205	050505066156	061031366105	000510313661	050505050505	050505050505
333720	050505050505	050505050505	050505050505	050505050505	377777777777	00051031056	050517050505	050505050505
333730	050505050505	562041241020	000400000000	050505050505	050505050505	050505050505	050505050505	05212170505
333740	050505050505	050505050505	052105050505	050505066056	516062606156	31061414005	050505050505	000635121050
333750	050505050505	051227050505	000034140256	000000160000	000000000000	000000000000	000024002400	061010243223
333760	314705050505	000000774440	102761050505	050505050505	000000776460	102762050505	050505050505	000000774560
333770	102765050505	050505050505	000000776040	303406254713	162112050505	000000774400	303406251316	211247220625
334000	000000775060	272223474747	050505050505	000000775040	271206114735	303630050505	000000775000	211607470505

CBQ 35116

CBQ 35236

RCT

RCT

Figure 2-1. Sample Paric Dump Printout (Part 8 of 16)

EXEC 8 ERROR ANALYSIS VIDEO SEMINAR

33470	200102253400	200102257000	200102262400	200102266000	200102271400	200102275000	200102300400	200102304000
334750	200102313000	200102313000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
334760	000106000301	220625050505	010102000101	060505050505	010106000601	220625301322	001304000000	024000400000
334770	010206000501	060730050505	000000000000	000000000000	000035134756	05050514265	010202000101	060505050505
335000	055661601501	243106210510	243031561367	756240050505	001300010000	606063666605	050505132427	220631514115
335010	050505132427	220631514115	0000034136056	000000000000	000000000000	000005144415	000102772250	050505165665
335020	200102030400	200102037400	200102037400	200102030000	200102044000	200102044000	200102055400	200102061000
335030	200102064400	200102070000	200102073400	200102070000	200102102400	200102106000	200102111400	200102115000
335040	200102120400	200102127400	200102127400	200102133000	200102136400	200102142000	200102145400	200102151000
335050	200102154000	200102160000	000000000000	00000202211	000000000000	000000000000	000000000000	000000000000
335060	200506777731	400000000000	0006677730	2006677100	000000000000	000000000000	000000000000	000000000000
335110	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335120	005700000002	3036221316	000003000001	000003000001	000000000000	000000000000	000000000000	000000000000
335130	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335140	000000000000	000000002440	000000000003	000000000000	000000000000	000000000000	000000000000	000000000000
335150	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335160	562021241020	000505050506	050505050505	050505050505	051705050505	050505050505	052122170505	05050516161
335170	061031366105	050505050505	052324250505	000305050505	050505050505	050505050505	052324250505	000500000000
335200	050505050505	050505050505	052156156205	050505050505	061031366105	00510313661	050505050505	050505050505
335210	050606563305	050505066156	000034132216	000105777214	137661777750	000000000000	000000000000	000000000000
335220	001300000000	133626136256	00003000047	000013000047	000000000000	000000000000	000000000000	000000000000
335230	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335240	000000000000	134176133506	134216051000	000000000000	000000000000	000000000000	000000000000	000000000000
335250	20012704320	11326000003	44534000000	000000000000	000000000000	000000000000	000000000000	000000000000
335260	400000000000	000000000000	7777176666	200104007000	131341002110	000000000000	000000000000	000000000000
335310	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335320	001700000000	770101000000	010511060000	000000000000	000000000000	000000000000	000000000000	000000000000
335330	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335340	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335350	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335360	050600000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335370	421010000000	001300000000	606060000263	050505050505	050505050505	050505050505	052156320505	616741606005
335400	050505050505	050505050505	050505050505	050505050505	053005050505	050605627005	050505050505	050505050505
335410	050505050505	050505050505	000034133516	050505050505	050505050505	050505050505	050505050505	050505050505
335420	050505050505	230622124705	000040100000	050505050505	050505050505	050505050505	123516314705	050505050505
335430	050505050505	050505050505	050505050505	132427204705	000000000000	050505050505	050505050505	050505050505
335440	160621214705	000400010000	050505050505	050505050505	050505050505	313406143147	000400010000	050505050505
335450	050505050505	050505050505	000034137016	000000000000	050505050505	000404133355	303406254713	162112050505
335460	051500000000	001500002000	000001135465	002500013200	000000000000	000000000000	000000000000	000000000000
335470	000000002763	000000000312	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335500	020003120000	062700001450	000020000000	000100325710	000000131336	000000301701	000000000000	000000000000
335510	135767000001	000000000001	030202000000	000000132546	000000000000	000005140115	000000000000	000000000000
335520	200606777737	400000000000	000606777736	200606771700	000000000000	000000000000	000000000000	000000000000
335550	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
335560	003012311056	160505050505	000200400000	003526310508	067506073005	000000131056	067527070505	000200000000
335570	141205050505	000130470505	001316230505	777777777777	050505050505	052105050505	002230140505	052123030004
335600	310614124005	000527050505	050505050505	050505050505	051227050505	050505050505	050505066056	516062606356
335610	050505050505	050505050505	000034133666	000000000000	000000000000	000000000000	200101772250	303630470505
335620	050505050505	272116074705	050505050505	303630470505	050505050505	050505050505	311227101230	162330310621
335630	21063162423	023105165465	023105166420	000000000000	000000000000	000000000000	000000000000	00010177160
335640	01320020001	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000131256
335650	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	050505066056	516062606356
335660	310614124005	000527050505	050505050505	050505050505	051227050505	050505050505	233147050505	050505050505
335670	050505050505	050505050505	052122170505	050505050505	052021241020	050505050505	050505050505	050505050505
335700	051705050505	050505050505	331206050505	000305051324	061031366105	050505050505	052324250505	000305050505
335710	050505050505	050505050505	000034137716	000000000000	000000000000	000000000000	050505050505	052324250505
335720	000347050505	050505050505	050505050505	052324250505	000505050505	050505050505	050505050505	052156156205

CBO EKTESA

334760 334770 334780 334790 334800

335130 335140 335150 335160 335170 335180 335190 335200

Figure 2-1. Sample Parity Dump Printout (Part 10 of 16)

EXEC 8 ERROR ANALYSIS VIDEO SEMINAR

345500	2707350000006	2473200000032	1071000000003	46732077776	724016145517	742000145511	157100000001	740500145504
345510	7420130000000	2473200000001	724016145514	7420130000001	2737350000000	2737350000000	2727350000000	8134154000000
345520	6124154000000	6124154000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000
345530	00641145522	00641145523	007741145524	000441145525	000341145526	0003430000000	0003430000000	000343146606
345540	0003410000000	0003410000000	000341146606	0000000000000	345552376382	0000000000003	0000000000001	0364040000000
345550	0000000000000	0000000000000	0000000000000	0000000000000	200000043200	145543010103	0000000000000	0000000000000
345560	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000
345570	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000
345610	0100000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000
345620	0000000000000	400100263766	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	331336131336
345630	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000
345640	0000200000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	0000000000000	271312000012
345650	271311000040	270712000012	270711000040	270720000011	270710000042	270332000013	270331000041	106312000014
345660	105311000037	100316000013	100315000013	101316000012	101315000040	106316000014	105315000037	100716000011
345670	100715000042	270616000012	270213000040	276752000005	276352000005	000001345674	240000000000	0000000000000
345700	00002345701	000000001000	000001345676	0000000000000	000002345705	0000000000000	000001345676	0000000000000
345710	00002345711	000000001000	000001345676	000000145677	000000145703	000000145707	0000000000133	000442000111
345720	000442000101	000000000033	000100000012	000260000133	000250000013	000244000017	000300000011	010242000111
345730	010242000111	010242000111	000542000111	000642000111	000742000111	005742000111	405442000011	000347000111
345740	015542000101	405442000101	015642000101	006442000101	010342000101	010442000101	014542000101	006100000133
345750	005200000000	005300000000	162331272120	000015063015	250627163136	322311122310	000223123525	341306322131
345760	103010150627	001032301226	050000003405	050034121305	050000103405	050000034305	050006073405	050000143405
345770	05000102605	050000000005	050000002705	0500002705	050000272705	050027192105	050000727105	05002712105
346000	05003223105	05000602705	050031300605	050031301305	050025300905	050025301105	050000000000	050007301105
346010	050030271105	050073027105	050027123405	05212341605	050000302205	052102070505	053010270705	342716311227
346020	311642243231	050611001505	05000221305	05000220705	253427214430	12101517020	322311061111	002515023012
346030	232442271210	163210150627	301210211223	210631120620	0000000000001	777777777777	777777777777	0000000000000
346040	000000000000	000000000000	000000002636	000000000000	000000000000	000000000000	000000000000	0000000000000
346050	000000000000	000000000000	000000000000	376476021563	000000000000	000000000000	000000000000	0000000000000
346060	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346070	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346100	002174305270	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346110	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346120	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346130	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346140	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346150	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346340	400003375777	400004000033	430002777750	040406771060	000000000000	000000000000	000000000000	0000000000000
346350	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346410	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346420	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346430	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346440	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346450	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346460	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346470	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346500	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346510	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346520	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346530	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346540	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346550	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346560	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346570	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346600	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000
346610	032000146640	007700000000	000000000000	000000000000	000000000000	137656333354	120617150051	335456134456
346620	400000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	0000000000000

SS TABLE 346604

10C TAB

UNIT TABLE 350046

SS TABLE

Figure 2-1. Sample Panic Dump Printout (Part 13 of 16)

EXEC 8 ERROR ANALYSIS VIDEO SEMINAR

347730	000017301040	403702777740	001123116635	000016116661	000000000000	00672707n20	000000000000	000000000000	000000000000
347740	000000000000	000202150134	000500147772	777700000000	000002150186	000000000000	000000000000	000000000000	000000000000
347750	000000000000	000000000000	000000000040	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
347760	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
347770	000000000000	000015177022	000000000000	000000000000	040424040672	000000000000	000000000000	000000000000	000000000000
350000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350010	000000000000	000002350013	000000000000	000000000000	000001300017	000000000000	000000000000	000000000000	000000000000
350020	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350030	000000000000	777777777777	000000000000	000000000000	000000000037	000000000000	000000000000	000000000000	000000000000
350040	000000000000	000000000017	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350050	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350060	000000000000	000000000002	400000000002	400010000002	400010000002	400000000000	400010000002	400010000002	400000000000
350070	000000000002	400000000002	400000000002	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350100	000000000000	400000000000	000000000000	000000000000	400000000000	000000000000	000000000000	000000000000	000000000000
350110	400000000002	400000000002	400000000002	400000000002	400000000002	000000000000	000000000000	000000000000	000000000000
350120	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350130	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350140	000000000000	003600200120	005600400043	000440000000	002240000000	000000000000	000000000000	000000000000	000000000000
350150	024100454000	400000070700	400006200720	400006410047	001010004000	104100504000	004100004000	004100004000	000000000000
350160	400000000000	400000000000	001414000000	142114200000	144100554000	001210001200	001210001200	002700300031	114100511240
350170	400000000000	402040000000	400040000000	400040000000	400040000000	400040000000	400040000000	400040000000	400040000000
350200	400000000000	400000000000	400040000000	400040000000	400040000000	000637400007	000737600021	000737600000	000207000421
350210	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350270	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350300	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350340	000000000000	150343150401	150373000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350350	000000000000	000017000022	000000000022	000220000022	000127000222	000120002222	000120002222	000100777000	000100777000
350360	000000000000	000103777000	000104777000	000105777000	000000000000	000000000000	000000000000	000000000000	000000000000
350370	000000000000	000300177000	000302777000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350400	000000000000	000000000000	000277000000	027754000000	000000000000	000000000000	000000000000	000000000000	000000000000
350410	000000000000	000000000011	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350420	000000000000	000100000000	000102000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350430	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350460	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350470	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350500	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350510	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350520	000000000000	773777777777	050000000000	100000000000	177770000000	777000000000	000000000000	000000000000	000000000000
350530	000000000000	000000000000	003400130056	007000132656	034000141956	001700131414	017700140556	00700131106	00700131106
350540	000000000000	007700132656	037700000000	077700000000	000340131326	000640131324	003440140116	003440140116	00700133056
350550	000740000000	001740000000	003740000000	007740000000	300000043200	200000043200	000100000000	000100000000	271214050605
350560	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350570	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
350610	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
351410	777777400000	777777400000	777777777777	777777777777	777777777777	777777777777	777777777777	777777777777	777777777777
351420	267374000000	515414000000	742000151433	467260150546	745660127334	467300000000	267374000000	267374000000	267374000000
351430	467320000000	237020000034	220315400000	100020000136	050000000136	737400151471	100000151471	100000151471	100000151471
351440	740000151400	047400000000	056400151470	060320000136	500000000136	510000000177	742000151450	742000151450	724400000127
351450	731060000000	017000000000	011060151471	056400151470	060320000136	500000000134	510000000177	742000151461	742000151461
351460	724400000127	000000000000	267270000000	467260151465	742000143270	000000000131	000000000000	000000000000	000000000000
351470	001000000003	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
351500	000000000203	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
351510	000000000004	133506133406	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
351520	000000000000	000501020014	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
351530	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
351540	007000132656	230060000013	007000132656	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
351540	007000137156	230060000013	270320000152	271335000001	461276200004	230060000013	745660144156	745660144156	277320000017

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Figure 2-1. Sample Panic Durr Printout (Part 14 of 16)

366230	527000166347	742000166236	270320110416	50000151416	060320110416	460260000014	230020000013
366240	27135500001	27135500001	240756200006	040036200014	040056200015	040076200014	050015000005
366250	100514000002	740500166254	060734000006	742000166260	100160000005	740500166254	040036000006
366260	056414000001	270300000152	467300100000	745740171647	270300000101	277274000002	742000166151
366270	460260000016	040260000016	745660123021	277276000000	742000166324	056414000001	460340000013
366300	460260150531	745660127334	745660123021	467340000000	060354000000	040034000003	040054000004
366320	230054000004	230040000014	467274000002	745660143270	270300000102	270374000001	230034000003
366330	277340000003	064354000002	461300150531	742000127256	744000000131	271274000004	063754000004
366340	467340000002	230435400001	420055400001	742034015055	060355200002	277340000001	063754000004
366350	000000000000	000000000000	133056134235	000000164354	133656134235	000000164354	065754000004
366360	000000131056	000000166363	000000000000	000000135767	000000166365	000000166367	065754000004
366370	000000166371	000000000000	000000166373	000000000000	000000000000	000000166400	737415000004
366400	000000000000	000000166402	000000000000	000000166404	000000000000	000000166406	000000166410
366410	000000000000	000000000000	000000000025	000000166415	000000000000	000000166417	000000166430
366420	000000000000	000000777116	000000166424	132634135767	132634135767	000000166424	000000166430
366430	000000000000	000000166432	000000000000	000000166434	000000166446	000000777114	000000166441
366440	000000000000	777774135246	000000000000	000000000000	000000166446	000000000000	000000000000
366450	000000000000	000000166453	000000000000	000000000000	000000166455	000000000000	000000000000
366460	000000000000	000000000000	000000166463	000000000000	000000166465	000000166457	000000000000
366470	742000127256	467260166510	742000127334	745660144137	270260000152	101133200004	461300166512
366500	061332200000	742014000000	270300000152	271314000001	101116000002	742013000000	000000000000
366510	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
366550	000000155423	000000000076	000000000000	132634135767	000000165561	000000000000	000000000000
366600	270300000020	000000000000	237370000000	467340000016	467300000001	000000000000	000000000000
366610	000340000102	730040000022	257300000000	060300000016	270540000034	231034000034	220334000034
366630	467300000001	220316400000	275737000000	467300000016	745660166471	740057000000	742000166413
366640	742000166642	060715000034	742000166642	060300000016	270540000034	740057000000	742000166413
366650	270340000102	742016000000	000000000000	000000000000	745660166471	040034000034	237020000034
366660	056400166672	742013000000	000000000000	467340000001	271337000001	740420166441	060717000001
366670	742013000001	010100166674	010100166674	374170000001	271337000001	740420166441	060717000001
366700	237020000036	050014900000	7020166711	473200000001	065737000000	742060166624	050414000034
366710	745660166665	742000166731	010119000000	000000000000	277320000000	742060166624	050414000034
366720	745660166665	271300166673	270719000001	737400000000	277320000000	742060166624	050414000034
366730	467320000001	237020000036	050015400000	000000000000	010120166675	745660166671	270320000014
366740	061334000001	277320000016	064734000000	000000000000	100120166675	271320166673	270320000014
366750	740040167001	0613300166673	745660166666	000166716	230040000013	740000167001	274354000000
366760	257320000001	064334000000	740420167001	000166716	050014000000	2713300166673	274354000000
366770	745660166467	050000166672	050000166672	740420167001	742000166776	271334000001	050415000001
367000	230040000012	270700166672	740000167002	740000166673	271300166776	740000167001	742000166761
367010	742000167022	742000167002	271300166673	061300166673	271300166673	271300166673	745660166666
367020	277300166347	737414000001	271354000000	270719000001	740000167002	050000000014	742000167002
367030	277300166347	737414000001	271354000000	740040167152	056414000001	742000167057	742000167147
367040	277300167173	101116000000	735100000006	010514000005	167100000023	105636000000	745720170013
367050	010114000001	724400000003	506414000003	742440167054	107100000003	105636000000	745720170013
367060	277320167201	745760166602	277300166347	271354000000	277300167173	742000167147	122016000000
367070	745740167072	742000167147	060734000004	100517000002	010514000005	277320167201	461356000000
367100	013514000003	724400000003	050014000002	506414000003	742440167105	147100000010	461356000000
367110	600000000016	742000167160	737414000001	106117000000	157100000001	147100000010	010517000002
367120	742000167143	100100000014	270714000004	040054000000	040074000001	147100000010	010517000002
367130	050417000000	056417000000	467300000020	745660121172	270340000022	460300000016	510417000003
367140	230054000000	230074000001	742000167144	056417000000	734000000029	2703100000103	100100000014
367150	745660166112	742000167030	270360000152	060774000000	060774000000	2703100000103	100100000014
367160	104117000002	740100167112	100100167541	270340000004	010115000000	270300000017	742000171445
367170	506414000003	742440167172	742000167112	303622474747	060606006263	100517000002	742000171445
367200	000000000010	050505500505	616741606005	421010050560	601300000000	0010050000340	000340167201
						050505050505	050505050505

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Figure 2-1. Sample Panic Dump Printout (Part 15 of 16)

