60459940

CONTROL DATA

BINARY MAINTENANCE LOG (BML) MESSAGE FORMATS

CDC® OPERATING SYSTEMS:
CYBER 180
CYBER 170
CYBER 70
6000

REVISION RECORD

REVISION	DESCRIPTION
A (10-01-84)	Manual released. It reflects NOS 2.3 at PSR level 617.
B (12-16-85)	This manual reflects NOS 2.4.3 at PSR lvel 647. Additions include support of the nonimpact printer (NIP), dedicated fault tolerance (DFT) program, and rotating mass storage RAM enhancements. BML message formats have been added for unit record equipment (card reader, card punch, and printers), 836 disk, 895 disk, channel status, MAP III/MAP IV, and CYBER 180 class models. Due to extensive changes, chart tape is not used; all pages reflect the current revision level. This edition obsoletes all previous editions.
C (12-15-86)	This manual reflects NOS 2.5.1 at PSR level 670. Additions include support of the 887 disk subsystem, as well as enhancements to the 885 disk subsystem, and support of 698 tape drives. This edition obsoletes all previous editions.
D (09-23-87)	This manual reflects NOS 2.5.3 at PSR level 688. Support has been dropped for the mass storage subsystem (MSS).
E (04-05-88)	This manual reflects NOS 2.6.1 at PSR level 700. Additions include a new format of the DFT/OS buffer, found on message identification numbers 0250B. Messages referencing a message not issued after NOS 2.4.2 are dropped. This edition obsoletes all previous editions.

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REVISION LETTERS I, O, Q, S, X AND Z ARE NOT USED.

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Control Data
Technical Publications
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Arden Hills, MN 55126-9983

or use Comment Sheet in the back of this manual.

LIST OF EFFECTIVE PAGES

New features, as well as changes, deletions, and additions to information in this manual, are indicated by bars in the margins or by a dot near the page number if the entire page is affected. A bar by the page number indicates pagination rather than content has changed.

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This manual describes messages issued to the binary maintenance log (BML) that interfaces with the Network Operating System Version 2 (NOS 2) and the Hardware Performance Analyzer (HPA). This manual also references all NOS-supported equipment and entities that issue messages to the BML system file.

NOS 2 and HPA operate on the following:

CDC CYBER 70 Computer Systems
Models 71, 72, 73, and 74

CDC CYBER 170 Computer Systems
Models 171, 172, 173, 174, 175,
176A, 176B, 720, 730, 740, 750,
760, 815, 825, 835, 845, 855, 865,
and 875

CDC CYBER 180 Computer Systems
Models 810, 830, 835, 840, 845,
850, 855, 860, 870, 990, and 995

CDC 6000 Computer Systems

AUDIENCE

This manual is a reference for customer operations personnel and Control Data customer engineers who use the Hardware Performance Analyzer (HPA).

ORGANIZATION

This manual consists of five sections. Section 1 describes the general BML message format and types. Section 2 summarizes octal message identifier (MSGID) codes. Section 3 summarizes common symptom codes. Section 4 summarizes common MSGID and symptom code combinations. Section 5 lists the specific structure for each message type in numeric MSGID order.

SUBMITTING COMMENTS

There is a comment sheet at the back of this manual. You can use it to give us your opinion of the manual's usability, to suggest specific improvements, and to report errors. If the comment sheet has already been used, mail your comments to:

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If you have questions about the packaging and/or distribution of a printed manual, write to:

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308 North Dale Street
St. Paul, Minnesota 55103

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Control Data's CYBER Software Support maintains a hotline to assist you if you have trouble using our products. If you need help not provided in the documentation, or find the product does not perform as described, call us at one of the following numbers. A support analyst will work with you.

From the USA and Canada: (800) 343-9903

From other countries: (612) 851-4131

RELATED PUBLICATIONS

Control Data Publication	Publication Number
CDC Intelligent Hydra Drive Hardware Maintenance Manual Volume 2 of 4	83325590
CDC Intelligent Hydra Drive Hardware Reference Manual	83325550
CDC 5870 Non-Impact Printer (NIP) Subsystem Hardware Reference Manual	60461360
CDC 7155 Disk Storage Subsystem Reference Manual	60455860
CYBER Record Manager Basic Access Methods Version 1.5 Reference Manual	60495700
CYBER Systems Peripheral Diagnostic Reference Manual	60000114
CYBER 70 Model 71 Computer System Hardware Reference Manual	60453300
CYBER 70 Model 72 Computer System Hardware Reference Manual	60347000

Control Data Publication	Publication Number
CYBER 170 Computer Systems Models 171 through 175 (Levels A, B, C) Model 176 (Level A, B, C) Hardware Reference Manual	60420000
CYBER 170 Computer Systems Models 720, 730, 740, 750, and 760 Model 176 (Level B/C) Hardware Reference Manual	60456100
CYBER 170 Computer Systems Models 815 and 825 Hardware Reference Manual	60469350
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CYBER 180 Models 810 and 830 Computer Systems Hardware Reference Manual	60469420
CYBER 840A, 850A, 860A, and 870A Computer Systems Hardware Reference Manual	60463560
Direct Extended Memory Access (DEMA) Disk Storage Reference Manual	60459570
Hardware Performance Analyzer User Reference Manual	60459460
MAP Field Maintenance Manual	60459900
65206-2 FSC Hardware Reference Manual	60457940
7155-401 Disk Storage Subsystem Hardware Reference Manual	60459570
380-170 Network Access Device Hardware Reference Manual	60458500
834/836 Intelligent Small Disk (ISD) Subsystem Hardware Reference Manual	60459460

CONVENTIONS

The following conventions apply to user entry formats presented in this manual.

- Bit 0 is the least significant bit in fields shown with bit numbers.
- All numbers are decimal unless otherwise noted.
- Hexadecimal numbers are indicated by the use of parentheses.

- All MSGID and symptom codes are octal numbers, designated with a B. For example, 0012B is the same as 0012_8.

- CYBER Computer Systems are designated by system number or model number. For example, 170 Models refers to all CYBER 170 Models listed in the preface, and Model 825 refers to the CYBER 170 Model 825.

DISCLAIMER

The descriptions of BML messages are intended for use only with HPA and NOS 2. Control Data cannot be responsible for BML messages produced by other programs or systems.

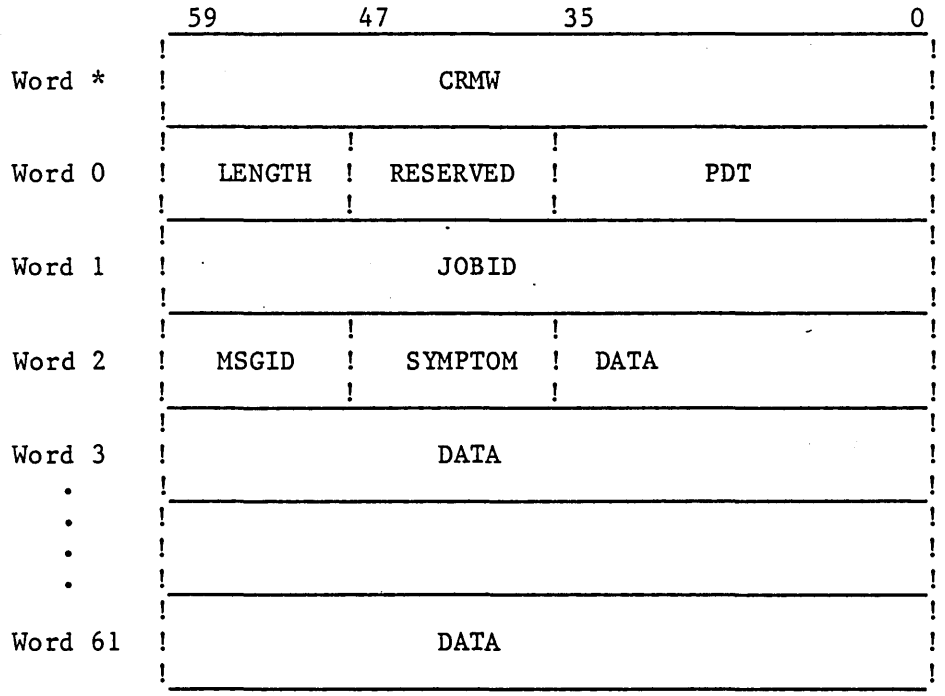
CONTENTS

The binary maintenance log (BML) is a system file that stores equipment-related messages issued by operating system programs. The structure of each message in the file depends upon the type of equipment or entity to which the message applies. Each message contains a message identifier (MSGID) and a symptom code that specifies the message structure and identifies the error or special condition causing the message to be generated.

This section describes the general BML message structure, the CYBER Record Manager (CRM) W-word, BML message formats for the central processing unit (CPU) and peripheral processing (PP) programs, and the BML disk format. This section also describes message types and the format of both hardware error/usage messages and system software messages.

GENERAL BML MESSAGE STRUCTURE

The BML interface is defined as the user-accessible file produced by the MAINLOG utility. The format of a BML message as it appears in this file is shown below.

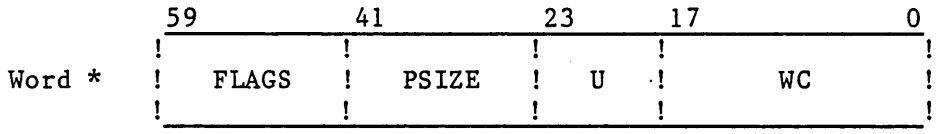


Field	Word	Location	Description
CRMW	*	59-0	CYBER Record Manager (CRM) W-word.
LENGTH	0	59-48	Binary number specifying total message length in number of 60-bit words, including word 0.
RESERVED	0	47-36	Reserved for future use. This field must be set to zero.
PDT	0	35-0	Packed date and time. Date and time is in the format YYMMDDHHMMSS. The year (YY) is biased by 1970. The date and time are needed to correctly sequence messages. The accuracy of the time is not as critical as the relative accuracy of the elapsed time from event to event. The date and time might not be present for BML messages generated during deadstart procedures.

Field	Word	Location	Description
JOBID	1	59-0	Job identification (job sequence name, JSN) of job that issued the message; in display code, left-justified, zero-filled.
MSGID	2	59-48	Message identifier. Binary number used to identify the format of the data fields.
SYMPTOM	2	47-36	Binary number indicating the error or special condition causing the entry to be logged. This field is unique for each MSGID.
DATA			The format of the data area varies from message to message, and depends on the value of the MSGID and SYMPTOM fields. The length of the data area also varies. Total message length can be as large as 63 words including the CRM W-word.

CYBER RECORD MANAGER W-WORD

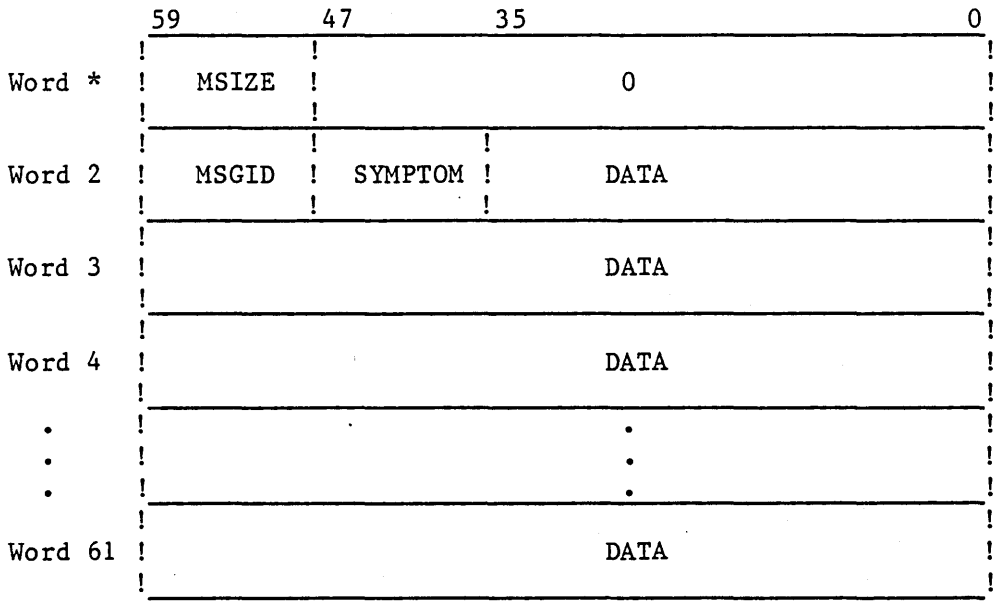
When the MAINLOG utility creates a user-accessible BML file, it places a CYBER Record Manager (CRM) W-word at the beginning of each BML message. This allows use of CRM to analyze the BML file. Refer to the CYBER Record Manager BAM Reference Manual listed in the preface for information on processing the W-word. The format of the CRM W-word is as follows.



Field	Location	Description
FLAGS	59-42	FLAG Field.
	(59)	Parity bit, used to maintain odd parity within the word.
	(58-42)	Set to zero.
PSIZE	41-24	The size of the previous BML message in central memory (CM) words including the W-word for that message. This field is zero if there are no previous BML messages.
U	23-18	Unused.
WC	17-0	Number of CM words necessary to contain the BML message, not including word *.

CPU PROGRAM MESSAGE FORMAT

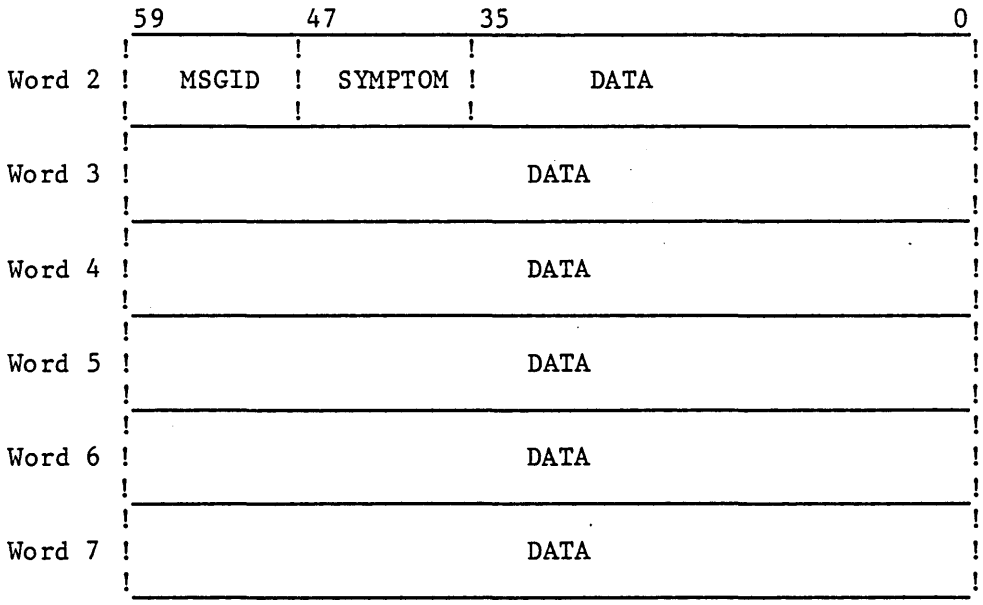
The general format of BML messages issued by a CPU program is shown below. After the CPU program issues a BML message, NOS strips off word * and adds words 0 and 1. When MAINLOG accesses the BML file, MAINLOG adds the CRM W-word.



Field	Word	Location	Description
MSIZE	*	59-48	Number of 60-bit words in the message, not including word *.
MSGID	2	59-48	Message identifier for the message type.
SYMPTOM	2	47-36	Symptom code indicating the error or special condition causing the entry to be logged.
DATA			Data in these fields depends on the message type specified in the MSGID and SYMPTOM fields.

PP PROGRAM MESSAGE FORMAT

The general format of BML messages issued by a PP program is shown below. After the PP program issues a BML message, NOS adds words 0 and 1. When MAINLOG accesses the BML file, MAINLOG adds the CRM W-word.

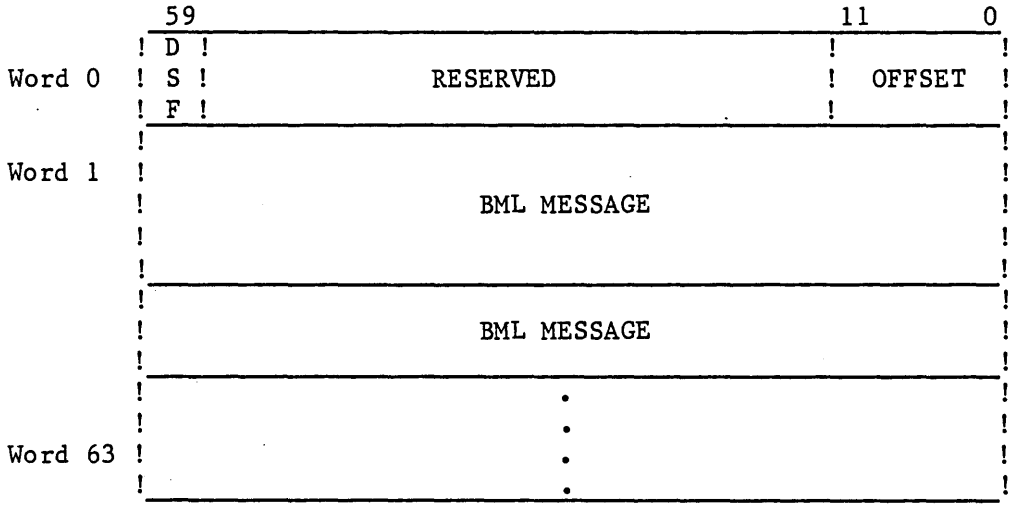


Field	Word	Location	Description
MSGID	2	59-48	Message identifier for the message type.
SYMPTOM	2	47-36	Symptom code indicating the error or special condition causing the entry to be logged.
DATA			Data in these fields depends on the message type specified in the MSGID and SYMPTOM fields.

BML DISK SECTOR FORMAT

BML messages are written to disk in 64-word sectors. The first word of each sector is a control word that identifies the beginning of the first message in the sector. NOS uses this control word to recover from situations where a deadstart caused an incomplete BML message to be written in a preceding sector.

Each sector of the BML is written in the following format.



Field	Location	Description
DSF	59	Zero-level deadstart flag. This bit is set if a 0, 1, or 2 recovery level deadstart has occurred since the previous sector was written.
OFFSET	11-0	A 12-bit field containing a binary number for the word offset in the sector of the beginning of the first message.
BML MESSAGE		BML message as previously described in this section. The first and last BML messages in the sector may be incomplete and span sector boundaries.

MESSAGE TYPES

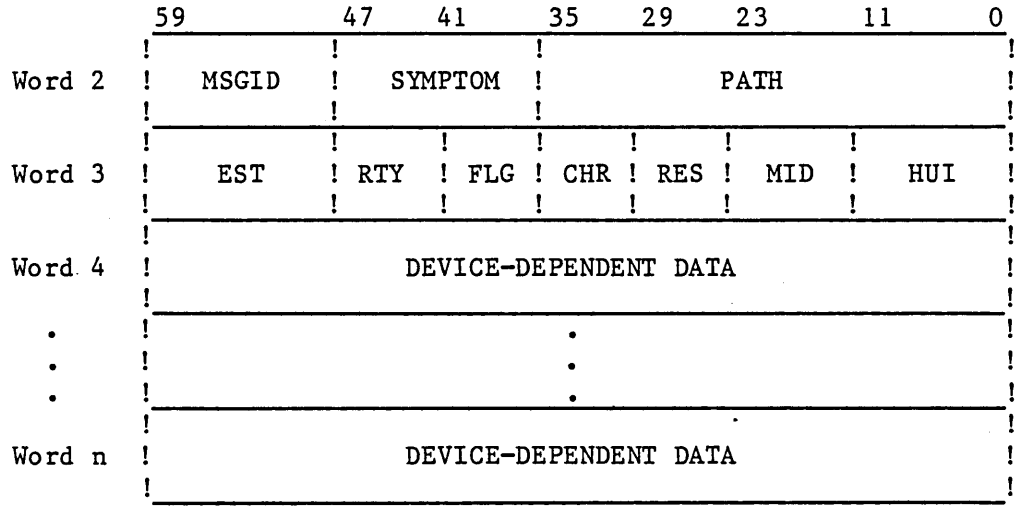
The message identification (MSGID) field contains a binary number that identifies the format of the remaining portion of the message. Message types and corresponding MSGID octal numbers are as follows.

Message Type	MSGID
Hardware Error/Usage Message	0001B-0377B
System Software Messages	0400B-0477B
CDC Reserved	0500B-0577B
QSS Software Messages	0600B-0677B
QSE Hardware Messages	0700B-0777B
CDC Reserved	1000B-7777B

Refer to section 2 for a list of defined message identification numbers.

HARDWARE ERROR/USAGE MESSAGES

All hardware error/usage messages (octal MSGIDs between 0001B and 0377B) conform to the detailed format given below. Words 0 and 1 are described earlier in this section under General BML Message Structure. Unused fields are zero-filled.

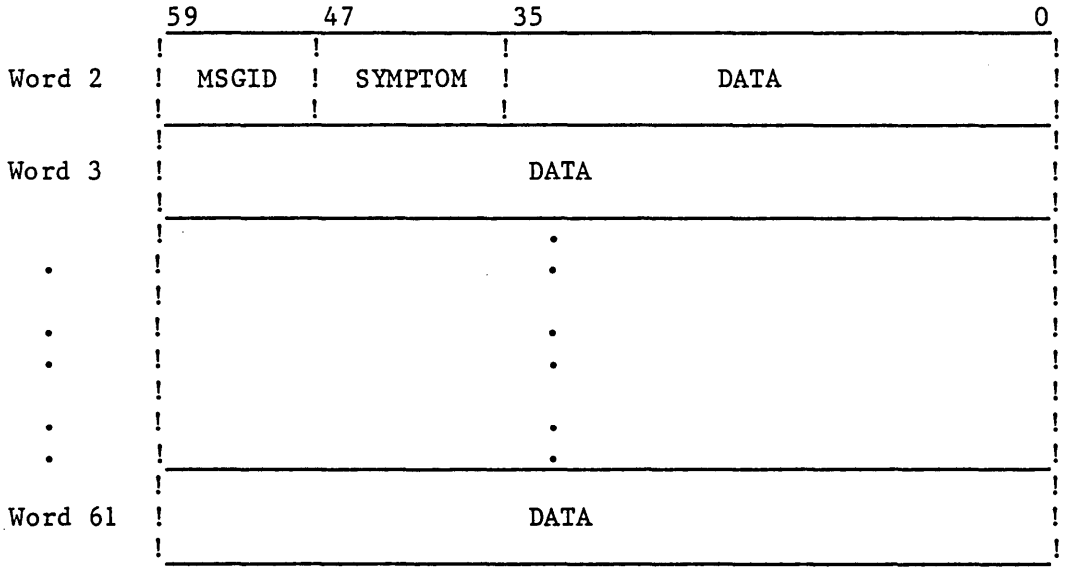


Field	Word	Location	Description
MSGID	2	59-48	Message identifier in the range from 0001B to 0377B.
SYMPTOM	2	47-36	Binary value indicating the error or special condition causing the entry to be logged. This field is unique for each MSGID.
PATH	2	35-0	Description of the path used to access the equipment. Information in this field may include but is not limited to PP number, channel number, equipment number, and unit number. Additional information describing this path may be placed in the device-dependent data field.
EST	3	59-48	Binary value of the ordinal number from the equipment status table (EST). It is zero when no EST ordinal exists for the equipment. Examples are LCN NADs, federal standard channel (FSC) adaptors, and status and control registers, and maintenance registers.
RTY	3	47-42	Binary number indicating either the number of attempts it took to recover or the number of retries attempted before declaring the problem to be unrecoverable. If more than 63 entries were attempted, RTY is set to 77B.
FLG	3	41-36	Flag field. This field is a general-purpose utility field for indicators and conditions that may be expressed as a binary value. Bits 41-40: Reserved and zero-filled. Bit 39: Not first block flag. 0 BML message is the first block of a message. 1 BML message is not the first block of a message.

Field	Word	Location	Description
			Bit 38: Continuation block flag. 0 Final or only message. 1 Another message will follow. Bit 37: Operation flag. 0 Read operation. 1 Write operation. Bit 36: Error flag. 0 Recovered error. 1 Unrecovered error. The following shows the relationship between the Not First Block Flag (bit 39 of word 3) and the Continuation Block Flag (bit 38 of word 3). Bit 39 / Bit 38 / Description 0 / 0 / The current BML message consists of one and only one block. 0 / 1 / The current message is the first block of a multi-block message. 1 / 0 / The current message is the last block of a multi-block message. 1 / 1 / The current block is not the first block and is not the last block of a multi-block message.
CHR	3	35-30	Channel number used to recover from an error. This may be different from the channel on which the error occurred.
RES	3	29-24	Reserved and zero-filled.

Field	Word	Location	Description
MID	3	23-12	Machine identifier indicating the mainframe that detected the error. The machine identifier is one or two left-justified, zero-filled, alphanumeric display code characters.
HUI	3	11-00	Hardware unique identifier. A binary value identifying which device of a type is being reported on. This is not a unique identifier on an entire system. The HUI is by device type. Its purpose is to enable differentiation of devices in a multimainframe environment even if the PATH description to the device is the same on each system. This allows running all BML files through the same HPA. This field is set to zero if no HUI exists.
DEVICE-DEPENDENT DATA			The data in these fields depends on the message type indicated in the MSGID and SYMPTOM fields.

All system software messages (octal MSGIDs between 0400B and 0477B) conform to the detailed format given below. Words 0 and 1 are described earlier in this section under General BML Message Structure.



Field	Word	Location	Description
MSGID	2	59-48	Message identifier in the range from 0400B to 0477B.
SYMPTOM	2	47-36	Binary number indicating the error or special condition causing the entry to be logged. This field is unique for each MSGID.
DATA			The data in these fields depends on the message type indicated in the MSGID and SYMPTOM fields.

QSS SOFTWARE MESSAGES

All QSS software messages (octal MSGIDs in the range from 0600B to 0677B) conform to the detailed message format described earlier in this section under System Software Messages.

QSE MESSAGES

All QSE hardware messages (octal MSGIDs in the range from 0700B to 0777B) conform to the detailed message format described earlier in this section under Hardware Error/Usage Messages.

MSGID codes and corresponding devices are as follows. Device mnemonics for mass storage equipment are in parentheses.

MSGID	Device
0001B	Reserved
0002B	7054/844-2x (DI)
0003B	7054/844-4x (DJ)
0004B	7154/844-2x (DK)
0005B	7154/844-4x, 7155/844-4x (DL)
0006B	819 Disk (DV/DW)
0007B	7155/885-1x (Half Track) (DM)
0010B	3330-1 (DX)
0011B	3330-11 (DY)
0012B	3350 (DZ)
0013B	33502 (DA)
0014B	7155-401/885-42 (DB)
0015B	Reserved
0016B	Reserved
0017B	7155/885-1x (Full Track) (DQ)
0020B	405 Card Reader
0021B	415 Card Punch
0022B	512 Printer
0023B	580-12 Printer
0024B	580-16 Printer
0025B	580-20 Printer
0026B	580-12/PFC Printer
0027B	580-16/PFC Printer
0030B	580-20/PFC Printer
0031B	5870 Printer Subsystem
0032B	5970 Printer Subsystem (Not Supported)
0033B-0041B	Reserved
0042B	667 Tape
0043B	Reserved
0044B	677 Tape
0045B	FSC 7-Track
0046B-0051B	Reserved
0052B	669 Tape
0053B	698 Tape
0054B	679 Tape
0055B	Reserved
0056B	FSC 9-Track
0057B	639 Tape
0060B	6671 Multiplexer
0061B	6676 Multiplexer
0062B	2550-100/6671
0063B	2550-100/6676

MSGID	Device
0064B	2550 NPU
0065B	MDI
0066B	Reserved
0067B	6683 Coupler
0070B	ECS I-DC135 DDP
0071B	ECS I-Coupler
0072B	ECS II-DC135 DDP
0073B	ECS II-Coupler
0074B	ECS I-DC145 DDP
0075B	ECS II-DC145 DDP
0076B	LCME Coupler
0077B	Unified Extended Memory (UEM)
0105B	MSE-FSC Error
0106B	MSE-7990 Error
0107B	MSE-Usage Data
0110B	7255/834 Disk (DD)
0111B	7255/836 Disk (DG)
0112B-0114B	Reserved
0115B	7165/895 (Full Track) (DC)
0116B-0119B	Reserved
0120B	887 Disk (4K byte sector) (DF)
0121B	887 Disk (16K byte sector) (DH)
0122B-0167B	Reserved
0170B	ESM-Coupler (ESM mode)
0171B	ESM-Low Speed Port (ESM mode)
0172B	STORNET
0173B	STORNET Maintenance Port
0174B-0177B	Reserved
0200B	SCR-Models 171, 172, 173, 174, and 175
0201B	SCR-Models 720, 730, 740, 750, and 760
0202B	SCR-Model 176A
0203B	SCR-Model 176B
0204B	SCR-Model 865
0205B	SCR-Model 875
0206B	Channel Status
0207B	ESM-Coupler (ECS mode)
0210B	ESM-Low Speed Port (ECS mode)
0211B	ESM Maintenance Port
0212B-0237B	Reserved
0240B	Dual State
0241B-0247B	Reserved
0250B	Maintenance Registers (DFT)
0251B	Diagnostic PP
0252B	Diagnostic MALET
0253B	Diagnostic Other
0254B-0277B	Reserved
0300B	Local NAD
0301B	Remote NAD
0310B	CYBERPLUS
0320B	MAP III/MAP IV
0400B	Software Initialization
0401B	Hardware Initialization

MSGID	Device
0402B	On-line Software Reconfiguration
0403B	On-line Hardware Reconfiguration
0404B	Operator Action
0405B	Maintenance Action
0406B	Binary Maintenance Log
0407B	Hardware Configuration
0410B	Mainframe Status
0411B	Software Error
0412B-0477B	Reserved

The following list provides a brief description for common symptom codes.

Symptom Code	Description
0001B	Channel active.
0002B	Channel inactive.
0003B	Channel full.
0004B	Channel empty.
0005B	Incomplete data transfer.
0006B	External reject.
0007B	Internal reject.
0010B	Transmission parity.
0011B	Channel stays active after inactivate.
0012B	Cannot connect.
0013B	Channel stays inactive after activate.
0014B	Channel downed by operator.
0015B	Channel downed by system.
0016B	Channel upped by operator.
0017B	Channel upped by system.
0020B-0021B	Reserved.
0022B	Conversion memory error.
0023B	Channel failure.
0024B	Channel parity.
0025B	Function reject.
0026B	6681 internal/external reject.
0027B	Equipment turned off by operator.
0030B	Equipment turned off by system.
0031B	Equipment turned on by operator.
0032B	Equipment turned on by system.
0033B	Equipment downed by operator.
0034B	Equipment downed by system.
0035B	Equipment upped by operator.
0036B	Equipment upped by system.
0037B	Reserved.
0040B	Parity error.
0042B	No EOP on I/O.
0043B	Unit not ready.
0044B	Unit hung busy.
0045B	Memory parity error loading.
0046B	Memory parity error data.
0047B	Firmware load (controller stop).
0050B	Firmware dead (function timeout).
0051B	Cannot autoload.
0052B	Off equipment.
0053B	On equipment.
0054B	Controlware serial number.

Symptom Code	Description
0055B	Restart controlware.
0056B	Device reserved.
0057B	Abnormal end operation interrupt.
0060B	Cumulative status.
0061B	Temperature abnormal.
0062B	Sync error.
0063B	RAM parity error.
0064B	Diagnostic error.
0065B	Memory flag.
0066B	Channel reserved.
0067B	Data verification error.
0070B-0073B	Reserved.
0074B	Examine general status.
0075B	Examine detail status.
0076B	Undefined error.
0077B	Copyright.

The following entries list meanings associated with selected combinations of MSGID and symptom codes. Device mnemonics for equipment are in parentheses in the MSGID column.

For MSGIDs associated with mass storage devices, some of the symptom codes are of the form XnnnB. X is defined as a four-bit field indicating the driver that issued the message. The values for X are as follows:

Value	Driver
0	6DI/6DJ
1	6DP
2	6DE
3	6DX
4	1MC
5	ELM
6	1HP
7	HCD
10	1XM
11	1HY
12	1XY

MSGID	Symptom Code	Meaning
7054/844-2x (DI)		
0002B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI).
	X043B	Device not ready (detected by 6DI).
	X050B	Firmware dead (detected by 6DI).
	X051B	Cannot autoload controller (detected by 6DI).
	X056B	Unit reserve error (detected by 6DI).
	X063B	RAM parity error (detected by 6DI).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI).
	X102B	Status error (detected by 6DI).
	X103B	Controller reserve error (detected by 6DI).
	0105B	Track flawed (detected by 1MV).

MSGID	Symptom Code	Meaning
7054/844-4x (DJ)		
0003B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI).
	X043B	Device not ready (detected by 6DI).
	X050B	Firmware dead (detected by 6DI).
	X051B	Cannot autoload controller (detected by 6DI).
	X056B	Unit reserve error (detected by 6DI).
	X063B	RAM parity error (detected by 6DI).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI).
	X102B	Status error (detected by 6DI).
	X103B	Controller reserve error (detected by 6DI).
	0105B	Track flawed (detected by 1MV).
7154/844-2x (DK)		
0004B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI).
	X043B	Device not ready (detected by 6DI).
	X050B	Firmware dead (detected by 6DI).
	X051B	Cannot autoload controller (detected by 6DI).
	X056B	Unit reserve error (detected by 6DI).
	X063B	RAM parity error (detected by 6DI).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI).
	X102B	Status error (detected by 6DI).
	X103B	Controller reserve error (detected by 6DI).
	0105B	Track flawed (detected by 1MV).
7154/844-4X (DL)		
0005B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI).
	X043B	Device not ready (detected by 6DI).
	X050B	Firmware dead (detected by 6DI).
	X051B	Cannot autoload controller (detected by 6DI).
	X056B	Unit reserve error (detected by 6DI).
	X063B	RAM parity error (detected by 6DI).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI).
	X102B	Status error (detected by 6DI).
	X103B	Controller reserve error (detected by 6DI).
	0105B	Track flawed (detected by 1MV).

MSGID	Symptom Code	Meaning
819 Disk (DW)		
0006B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DE).
	X101B	Unrecovered data error (detected by HCD).
	X102B	Recovered data error (detected by HCD).
	X103B	Hardware error (detected by HCD).
	X104B	Software error (detected by HCD).
	0105B	Track flawed (detected by 1MV).
7155/885-1x (Half Track) (DM)		
0007B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI).
	X043B	Device not ready (detected by 6DI).
	X050B	Firmware dead (detected by 6DI).
	X051B	Cannot autoload controller (detected by 6DI).
	X056B	Unit reserve error (detected by 6DI).
	X063B	RAM parity error (detected by 6DI).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI).
	X102B	Status error (detected by 6DI).
	X103B	Controller reserve error (detected by 6DI).
	0105B	Track flawed (detected by 1MV).
3330-1 (DX)		
0010B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI).
	X043B	Device not ready (detected by 6DI).
	X050B	Firmware dead (detected by 6DI).
	X051B	Cannot autoload controller (detected by 6DI).
	X056B	Unit reserve error (detected by 6DI).
	X063B	RAM parity error (detected by 6DI).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI).
	X102B	Status error (detected by 6DI).
	X103B	Controller reserve error (detected by 6DI).
	0105B	Track flawed (detected by 1MV).

MSGID	Symptom Code	Meaning
3330-11 (DY)		
0011B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI).
	X043B	Device not ready (detected by 6DI).
	X050B	Firmware dead (detected by 6DI).
	X051B	Cannot autoload controller (detected by 6DI).
	X056B	Unit reserve error (detected by 6DI).
	X063B	RAM parity error (detected by 6DI).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI).
	X102B	Status error (detected by 6DI).
	X103B	Controller reserve error (detected by 6DI).
	0105B	Track flawed (detected by 1MV).
3350 (DZ)		
0012B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI).
	X043B	Device not ready (detected by 6DI).
	X050B	Firmware dead (detected by 6DI).
	X051B	Cannot autoload controller (detected by 6DI).
	X056B	Unit reserve error (detected by 6DI).
	X063B	RAM parity error (detected by 6DI).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI).
	X102B	Status error (detected by 6DI).
	X103B	Controller reserve error (detected by 6DI).
	0105B	Track flawed (detected by 1MV).
33502 (DA)		
0013B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI).
	X043B	Device not ready (detected by 6DI).
	X050B	Firmware dead (detected by 6DI).
	X051B	Cannot autoload controller (detected by 6DI).

MSGID	Symptom Code	Meaning
33502 (DA)		
0013B	X056B	Unit reserve error (detected by 6DI).
	X063B	RAM parity error (detected by 6DI).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI).
	X102B	Status error (detected by 6DI).
	X103B	Controller reserve error (detected by 6DI).
	0105B	Track flawed (detected by 1MV).
7155-401/885-42 (DB)		
0014B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI, 1HP).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI, 1HP).
	X043B	Device not ready (detected by 6DI, 1HP).
	X050B	Firmware dead (detected by 6DI, 1HP).
	X051B	Cannot autoload controller (detected by 6DI, 1HP).
	X056B	Unit reserve error (detected by 6DI, 1HP).
	X063B	RAM parity error (detected by 6DI, 1HP).
	0067B	Data verification error (detected by 1MV).
	X074B	General status (detected by 1HP).
	X075B	Detailed status (detected by 1HP).
	X100B	Address error (detected by 6DI, 6DE, 1HP).
	X102B	Status error (detected by 6DI, 1HP).
	X103B	Controller reserve error (detected by 6DI, 1HP).
	0105B	Track flawed (detected by 1MV).

MSGID	Symptom Code	Meaning
7155/885-1x (Full Track) (DQ)		
0017B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DI).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DI).
	X043B	Device not ready (detected by 6DI).
	X050B	Firmware dead (detected by 6DI).
	X051B	Cannot autoload controller (detected by 6DI).
	X056B	Unit reserve error (detected by 6DI).
	X063B	RAM parity error (detected by 6DI).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI).
	X102B	Status error (detected by 6DI).
	X103B	Controller reserve error (detected by 6DI).
	0105B	Track flawed (detected by 1MV).
405 Card Reader (CR)		
0020B	0005B	Incomplete data transfer.
	0010B	Transmission parity error.
	0024B	Channel parity error.
	0025B	Function reject.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0044B	Controller hung busy.
	0050B	Function timeout.
	0100B	Accounting data.
	0101B	Compare error.
415 Card Punch (CP)		
0021B	0005B	Incomplete data transfer.
	0010B	Transmission parity error.
	0024B	Channel parity error.
	0025B	Function reject.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0044B	Controller hung busy.
	0050B	Function timeout.
	0100B	Accounting data.
	0101B	Compare error.
	0102B	Feed failure.

MSGID	Symptom Code	Meaning
512 Printer (LQ)		
0022B	0005B	Incomplete data transfer.
	0010B	Transmission parity error.
	0024B	Channel parity error.
	0025B	Function reject.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0044B	Controller hung busy.
	0050B	Function timeout.
	0100B	Accounting data.
	0101B	Printer error.
	0103B	Print error total.
580-12 Printer (LR)		
0023B	0005B	Incomplete data transfer.
	0010B	Transmission parity error.
	0024B	Channel parity error.
	0025B	Function reject.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0044B	Controller hung busy.
	0050B	Function timeout.
	0100B	Accounting data.
	0101B	Printer error.
	0103B	Print error total.
580-16 Printer (LS)		
0024B	0005B	Incomplete data transfer.
	0010B	Transmission parity error.
	0024B	Channel parity error.
	0025B	Function reject.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0044B	Controller hung busy.
	0050B	Function timeout.
	0100B	Accounting data.
	0101B	Printer error.
	0103B	Print error total.

MSGID	Symptom Code	Meaning
580-20 Printer (LT)		
0025B	0005B	Incomplete data transfer.
	0010B	Transmission parity error.
	0024B	Channel parity error.
	0025B	Function reject.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0044B	Controller hung busy.
	0050B	Function timeout.
	0100B	Accounting data.
	0101B	Printer error.
	0103B	Print error total.
580-120 Printer (LR)		
0026B	0005B	Incomplete data transfer.
	0010B	Transmission parity error.
	0024B	Channel parity error.
	0025B	Function reject.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0044B	Controller hung busy.
	0050B	Function timeout.
	0000B	Accounting data.
	0101B	Printer error.
	0102B	PFC error.
	0103B	Print error total.
580-160 Printer (LS)		
0027B	0005B	Incomplete data transfer.
	0010B	Transmission parity error.
	0024B	Channel parity error.
	0025B	Function reject.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0044B	Controller hung busy.
	0050B	Function timeout.
	0100B	Accounting data.
	0101B	Printer error.
	0102B	PFC error.
	0103B	Print error total.

MSGID	Symptom Code	Meaning
580-200 Printer (LT)		
0030B	0005B	Incomplete data transfer.
	0010B	Transmission parity error.
	0024B	Channel parity error.
	0025B	Function reject.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0044B	Controller hung busy.
	0050B	Function timeout.
	0100B	Accounting data.
	0101B	Printer error.
	0102B	PFC error.
	0103B	Print error total.
5870 Printer Subsystem (LX)		
0031B	0005B	Incomplete data transfer.
	0024B	Channel parity error.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0050B	Function timeout.
	0100B	Accounting data.
	0103B	Printer error total.
	0113B	CCC/NIP status error.
5970 Printer Subsystem (LY) (Reserved for future use)		
0032B	0005B	Incomplete data transfer.
	0024B	Channel parity error.
	0027B	Equipment turned off by operator.
	0030B	Equipment turned off by system.
	0031B	Equipment turned on by operator.
	0032B	Equipment turned on by system.
	0050B	Function timeout.
	0100B	Accounting data.
	0103B	Printer error total.
	0113B	CCC/NIP status error.

MSGID	Symptom Code	Meaning
MTS 7-Track		
0042B	0100B	Corrected tape errors.
ATS 7-Track		
0044B	0100B	Corrected tape errors.
FSC 7-Track		
0045B	0100B	Corrected tape errors.
MTS 9-Track		
0052B	0100B	Corrected tape errors.
CMTS 9-Track		
0053B	0100B	Corrected tape errors.
ATS 9-Track		
0054B	0100B	Corrected tape errors.
FSC 9-Track		
0056B	0100B	Corrected tape errors.
ISMT 9-Track		
0057B	0100B	Corrected tape errors.
MDI		
0065B	0051B	Cannot load.
6683 Satellite Coupler		
0067B	0005B	Receive block length failure.
	0011B	Hardware/software failure.
	0076B	Undefined error.
	0101B	Invalid coupler status.
	0102B	Channel left active.
	0103B	Send transmission broken.
	0104B	Receive block invalid.
	0105B	Invalid control/length byte.
	0106B	Coupler/channel test failed.

MSGID	Symptom Code	Meaning
ECS I-DC135 DDP (DP)		
0070B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DP, 6DE, ELM, 1MC).
	X043B	Device not ready (detected by 6DE).
	X050B	Firmware dead (detected by 6DP).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DP, 6DE).
	X102B	Status error (detected by 6DP).
	0105B	Track flawed (detected by 1MV).
ECS I-COUPLER (DE)		
0071B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DE, 1MC, ELM).
	X043B	Device not ready (detected by 6DE).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DE).
	0105B	Track flawed (detected by 1MV).
ECS II-DC135 DDP (DP)		
0072B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DP, 6DE, ELM, 1MC).
	X043B	Device not ready (detected by 6DE).
	X050B	Firmware dead (detected by 6DP).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DP, 6DE).
	X102B	Status error (detected by 6DP).
	0105B	Track flawed (detected by 1MV).

MSGID	Symptom Code	Meaning
ECS II-COUPLER (DE)		
0073B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DE, 1MC, ELM).
	X043B	Device not ready (detected by 6DE).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DE).
	0105B	Track flawed (detected by 1MV).
ECS I-DC145 DDP (DP)		
0074B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DP, 6DE, 1MC, ELM).
	X043B	Device not ready (detected by 6DE).
	X050B	Firmware dead (detected by 6DP).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DP, 6DE).
	X102B	Status error (detected by 6DP).
	0105B	Track flawed (detected by 1MV).

MSGID	Symptom Code	Meaning
ECS II-DC145 DDP (DP)		
0075B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DP, 6DE, 1MC, ELM).
	X043B	Device not ready (detected by 6DE).
	X050B	Firmware dead (detected by 6DP).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DP, 6DE).
	X102B	Status error (detected by 6DP).
	0105B	Track flawed (detected by 1MV).
LCME Coupler (DE)		
0076B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DE, 1MC, ELM).
	X043B	Device not ready (detected by 6DE).
	Q067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DE).
	0105B	Track flawed (detected by 1MV).
UEM (DE)		
0077B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DX).
	0105B	Track flawed (detected by 1MV).

MSGID	Symptom Code	Meaning
MSE-FSC ERRORS (SS)		
0105B	0001B	Invalid function.
	0002B	Data length error.
	0003B	Control word error.
	0004B	Buffer argument error.
	0005B	Header/trailer error.
	0006B	End of volume.
	0007B	Invalid unit number.
	0010B	Buffer timeout error.
	0011B	Tape bottom right.
	0012B	Terminate flag detected.
	0020B	Status error.
	0021B	Channel hung on input.
	0022B	Channel hung on output.
	0023B	Function timeout.
	0024B	No end of operation.
	0025B	Channel malfunction.
	0026B	Channel parity error.
	0027B	FSC memory parity error.
	0030B	FSC not running.
	0031B	FSC abnormal.
	0032B	FSC diagnostic failure.
	0033B	Checksum error (CM driver).

MSGID	Symptom Code	Meaning
MSE-7990 ERRORS (SS)		
0106B	0036B	Error log overflow.
	0060B	CTF, DTI/DTO errors.
	0100B	DRD,DRC,DIF,DTI/DTO errors device/diagnostic driver.
	0101B	Accessor errors, device/diagnostic driver.
	0103B	Device/path status change.
	0104B	ALT,DRD,DRC,DIF,DTI/DTO errors device/diagnostic driver.
	0107B	Device driver software error.
	0140B	CPU (memory hardware detected errors).
	0141B	Software errors.
MSE-USAGE (SS)		
0107B	0200B	Usage type data.
7255/834 Disk (DD)		
0110B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DJ).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DJ).
	X043B	Device not ready (detected by 6DJ).
	X050B	Firmware dead (detected by 6DJ).
	X051B	Cannot autoload controller (detected by 6DJ).
	X056B	Unit reserve error (detected by 6DJ).
	X063B	RAM parity error (detected by 6DJ).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DJ).
	X102B	Status error (detected by 6DJ).
	X103B	Controller reserve error (detected by 6DJ).
	0105B	Track flawed (detected by 1MV).
	X200B	On-line diagnostic message (detected by 6DJ).
7255/836 Disk (DG)		
0111B	0015B	Channel downed by system (detected by 1MV).
	X024B	Channel parity error (detected by 6DJ).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DJ).
	X043B	Device not ready (detected by 6DJ).
	X050B	Firmware dead (detected by 6DJ).
	X051B	Cannot autoload controller (detected by 6DJ).
	X056B	Unit reserve error (detected by 6DJ).

MSGID	Symptom Code	Meaning
7255/836 Disk (DG)		
0111B	X063B	RAM parity error (detected by 6DJ).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DJ).
	X102B	Status error (detected by 6DJ).
	X103B	Controller reserve error (detected by 6DJ).
	0105B	Track flawed (detected by 1MV).
	X200B	On-line diagnostic message (detected by 6DJ).
7165/895 Disk (DC)		
0115B	X005B	Incomplete data transfer (detected by 1XM).
	0015B	Channel downed by system (detected by 1MV).
	X023B	Channel failure (detected by 1XM).
	X024B	Channel parity error (detected by 6DI, 1XM).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Media error (detected by 6DI, 6DE, 1XM).
	X043B	Device not ready (detected by 6DI, 1XM).
	X050B	Firmware dead (detected by 6DI, 1XM).
	X051B	Cannot autoload controller (detected by 6DI, 1XM).
	X056B	Unit reserve error (detected by 6DI, 1XM).
	X063B	Controller memory error (detected by 6DI, 1XM).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DI, 6DE, 1XM).
	X102B	Status error (detected by 6DI, 1XM).
	X103B	Controller reserve error (detected by 6DI, 1XM).
	0105B	Track flawed (detected by 1MV).

MSGID	Symptom Code	Meaning
887 (4K byte sector) (DF)		
0120B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	X100B	Driver detected error.
	X103B	First failure data - Disk error register image.
	X104B	First failure data - Disk error log.
	X105B	Error recovery summary.
	X106B	Level I diagnostic results.
	X107B	Level II diagnostic results.
887 (16K byte sector) (DH)		
0121B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	X100B	Driver detected error.
	X103B	First failure data - Disk error register image.
	X104B	First failure data - Disk error log.
	X105B	Error recovery summary.
	X106B	Level I diagnostic results.
	X107B	Level II diagnostic results.
STORNET (DP)		
0172B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DP).
	X050B	Firmware dead (detected by 6DP).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DP).
	X102B	Status error (detected by 6DP).
	0105B	Track flawed (detected by 1MV).
STORNET Maintenance Port		
0173B	0100B	STORNET SECDED error.
	0101B	STORNET status error.
SCR Models 171, 172, 173, 174, and 175 (SR)		
0200B	0100B	Single bit, corrected occurrence.
	0101B	Single bit, summary table.
SCR Models 720, 730, 740, 750, and 760 (SR)		
0201B	0100B	Single bit, corrected occurrence.
	0101B	Single bit, summary table.

MSGID	Symptom Code	Meaning
SCR-Model 176A (SR)		
0202B	0100B	Single bit, corrected occurence.
	0101B	Single bit, summary table.
	0104B	LCME single bit, summary table.
SCR-Model 176B (SR)		
0203B	0100B	Single bit, corrected occurrence.
	0101B	Single bit, summary table.
	0104B	LCME single bit, summary table.
SCR-Model 865 (RR)		
0204B	0100B	Single bit, corrected occurrence.
	0101B	Single bit, summary table.
SCR-Model 875 (RR)		
0205B	0100B	Single bit, corrected occurrence.
	0101B	Single bit, summary table.
Channel Status (CH)		
0206B	0014B	Channel downed by operator.
	0015B	Channel downed by system.
	0016B	Channel upped by operator.
	0017B	Channel upped by system.
ESM-COUPLER (DE)		
0207B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DE, 1MC, ELM).
	X043B	Device not ready (detected by 6DE).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DE).
	0105B	Track flawed (detected by 1MV).
ESM-LOW SPEED PORT (DP)		
0210B	0015B	Channel downed by system (detected by 1MV).
	0030B	Device turned off by system (detected by 1MV).
	0034B	Device downed by system (detected by 1MV).
	X040B	Parity error (detected by 6DP, 1MC, ELM).
	X050B	Firmware dead (detected by 6DP).
	0067B	Data verification error (detected by 1MV).
	X100B	Address error (detected by 6DP).
	X102B	Status error (detected by 6DP).
	0105B	Track flawed (detected by 1MV).

MSGID	Symptom Code	Meaning
ESM Maintenance Port		
0211B	0100B	ESM SECDED error.
	0101B	ESM status error.
DUAL STATE		
0240B	0110B	CM assigned to NOS/VE.
	0111B	CM returned to NOS.
	0112B	PP assigned to NOS/VE.
	0113B	PP returned to NOS.
	0114B	CPP assigned to NOS/VE.
	0115B	CPP returned to NOS.
	0120B	Deadstart PP error.
	0121B	Idle PP error.
	0122B	Idle CPP error.
MAINTENANCE REGISTERS (Mainframe errors)		
0250B	0001B	Deadstart error log IOU error.
	0002B	Express deadstart dump IOU error.
	0003B	Corrected IOU error.
	0004B	Uncorrected IOU error (NIO PP halt).
	0005B	12/16 IOU conversion error (NIO PP).
	0006B	Fatal IOU error.
	0007B	Uncorrected channel error (NIO PP).
	0010B	Fatal IOU error (CIO PP).
	0011B	Uncorrected IOU error (CIO PP halt).
	0012B	12/16 IOU conversion error (CIO PP).
	0013B	Uncorrected channel error (CIO PP).
	0401B	Deadstart error log memory error.
	0402B	Express deadstart dump memory error.
	0403B	Corrected memory error.
	0404B	Uncorrected memory error.
	0405B	Multiple odd bit memory error.
	0406B	Fatal memory error (partial write parity error).
	1001B	Deadstart error log processor error.
	1002B	Express deadstart dump processor error.
	1003B	Corrected processor error.
	1004B	Uncorrected processor error.
	1005B	Retry in progress error.
	1006B	Repaired error.
	1007B	Unrepaired error.
	1010B	Fatal CPU halt (Class 1).
	1011B	Fatal CPU error (CPU error exit mode 20).

MSGID	Symptom Code	Meaning
MAINTENANCE REGISTERS (Mainframe errors)		
0250B	1012B	Fatal CPU error (CPU error exit mode 67).
	1013B	Fatal CPU recovery error.
	1014B	Corrected processor error with cache reload.
	1015B	Fatal CPU uncorrected error.
	1030B	Fatal CPU error.
	1031B	Forced uncorrected error.
	1032B	Fatal CPU halt (class 2).
	1033B	Retry converted to uncorrected CPU error.
	1034B	Retry exhausted.
	1035B	Hourly retry threshold exceeded.
	1036B	Partial write address parity error.
	3401B	Environment warning.
	3402B	Long power warning.
	3403B	Short power warning.
	3404B	Environment warning clear.
	3405B	Long power warning clear.
	3406B	Short power warning clear.
	3407B	Element counter buffer.
	3410B	SECDED ID table.
LOCAL NAD (NC)		
0300B	0100B	Local NAD error log.
	2100B	Local NAD connection error.
	2101B	NAD hardware fault.
	2102B	NAD microcode disaster halt.
	2110B	Function timeout.
	2111B	Channel inactive after activate.
	2112B	Data timeout.
	2113B	Prime timeout.
	2114B	Flag timeout.
	2115B	Transfer error.
	2116B	Abnormal path status.
	2117B	Abnormal response code.
	2120B	Control message length error.
	2121B	Parameter length error.
	2122B	Transfer length error.
	2140B	Local read error (block error).
	2141B	Local read error (host ABN error).
	2142B	Local read error (block too large).
	2143B	Local read error (data length error).
	2144B	Local read error (block fragment without EOR/EOI).
	2145B	Local read error (network ABN error).
	2146B	Local read error (block not 60-bit multiple).
	2150B	Local write error (block error).
	2151B	Local write error (host ABN error).
	2152B	Local write error (block too large).
	2153B	Local write error (data length error).
	2154B	Local write error (block fragment without EOR/EOI).
	2155B	Local write error (network ABN error).
	2156B	Local write error (block not 60-64 multiple).

MSGID	Symptom Code	Meaning
REMOTE NAD (NC)		
0301B	0100B	Remote NAD error log.
	2160B	Header length error.
	2161B	Bad data block length.
	2162B	Bad PRU data block.
	2163B	Abnormal response.
	2164B	Connect in progress timeout.
	2170B	Remote read error (block error).
	2171B	Remote send error (host ABN error).
	2172B	Remote send error (block too large).
	2173B	Remote read error (data length error).
	2174B	Remote read error (block fragment without EOR/EOI).
	2175B	Remote read error (network ABN error).
	2176B	Remote read error (block not 60-bit multiple).
MAP III/MAP IV		
0320B	0101B	No response to function.
	0102B	Fatal MAP or system error.
	0103B	Checkword or channel parity error.
	0104B	Channel full after output.
	0105B	Timeout on channel input.
	0106B	Timeout on channel output.
	0107B	Channel full before output.
	0110B	Channel active before function.
	0111B	Function busy timeout.
	0112B	Channel empty before input.
	0113B	Parity error in one or more MAP memories or ECS/ESM.
SOFTWARE INITIALIZATION		
0400B	0100B	System title.
	0101B	System version name.
HARDWARE INITIALIZATION		
0401B	0100B	Pack serial number (7x5x controller, ISD adapter, FSC adapter).
	0101B	Controlware revision level (7x5x controller, ISD adapter, FSC adapter).
	0102B	Operator initiated load (7x5x controller, ISD adapter, FSC adapter).
	0103B	System initiated load (7x5x controller, ISD adapter, FSC adapter).
	0104B	COS revision level.
	0105B	Operator initiated load (COS).
	0106B	System initiated load (COS).

MSGID	Symptom Code	Meaning
HARDWARE INITIALIZATION		
0401B	0107B	887 attributes
	0110B	MDI initialized.
	0111B	NIP/CCC peripheral microcode loaded.
	0112B	NIP/CCC peripheral microcode load error.
	0113B	NIP/CCC status error.
	0114B	Controller did not take all controlware.
	0115B	General status.
	0116B	Function timeout.
	0117B	No general status received.
DAYFILE		
0406B	0101B	BML created.
	0102B	BML accessed.
	0103B	BML terminated.
	0104B	Deadstart recovery.
	0105B	BML read error.
	0107B	BML data lost.
	0112B	Normal OS termination.
	0113B	BML accesssed by HPA.
	0114B	BML messages lost (CPUMTR).
PROCESSOR INITIALIZATION		
0407B	0100B	Microcode/EI names.
MAINFRAME STATUS		
0410B	0100B	Summary of error counters.
SOFTWARE ERROR		
0411B	0100B	Conditional hang.

The following entries describe the format of messages issued to the BML file. MSGID and SYMPTOM codes are listed in octal. Parentheses indicate hexadecimal numbers.

ROTATING MASS STORAGE	MSGID 0002B-0014B, 0017B, 0070B-0077B, 0110B, 0111B, 0115B, 0207B, 0210B, 0172B
819, 834, 836, 844-2x, 844-4x, 885-1x, 885-42, 887, 895, 3330-1, 3330-11, 3350, 33502	SYMPTOM 0015B, 0030B, 0034B, 0067B

1MV issues the following message as a result of a device verification failure.

	59–48	47–36	35–30	29–24	23–18	17–12	11–0
Word 2	MSGID	SYMPTOM	PP	CH	0	UN	0
Word 3	EST	0	0		MID		0

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0002B 844-2x (DI). 0003B 844-4x (DJ). 0004B 844-2x (DK). 0005B 844-4x (DL). 0006B 819 (DW). 0007B 885-1x (DM). 0010B 3330-1 (DX). 0011B 3330-11 (DY). 0012B 3350 (DZ). 0013B 33502 (DA).

Field	Word	Location	Description
			0014B 885-42 (DB). 0017B 885-1x (DQ). 0070B ECS I-DC135 DDP (DP). 0071B ECS I-Coupler (DE). 0072B ECS II-DC135 DDP (DP). 0073B ECS II-Coupler (DE). 0074B ECS I-DC145 DDP (DP). 0075B ECS II-DC145 DDP (DP). 0076B LCME-Coupler (DE). 0077B UEM (DE). 0110B 834 (DD). 0111B 836 (DG). 0115B 895 (DC). 0172B STORNET 0207B ESM-Coupler (DE). 0210B ESM-Low speed port (DP).
SYMPTOM	2	47-36	Symptom code. 0015B Channel downed by system (detected by 1MV). 0030B Device turned off by system (detected by 1MV). 0034B Device downed by system (detected by 1MV). 0067B Data verification error (detected by 1MV).
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected.
UN	2	17-12	Physical unit number of the unit on which the error was detected.
EST	3	59-48	EST ordinal of the device.
MID	3	23-12	Machine identifier in display code.

ROTATING MASS STORAGE	MSGID 0002B-0014B, 0017B, 0070B-0077B, 0110B, 0111B, 0115B, 0120B, 0121B, 0207B, 0210B, 0172B
	SYMPTOM 0105B

1MV issues the following message when a storage media error has been detected.

	59–48	47–36	35–30	29–24	23–18	17–12	11–0
Word 2	MSGID	0105B	PP	CH	0	UN	0
Word 3	EST	0	0		MID		0
Word 4	0		CYL		TRK		SEC

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0002B 844-2x (DI). 0003B 844-4x (DJ). 0004B 844-2x (DK). 0005B 844-4x (DL). 0006B 819 (DW). 0007B 885-1x (DM). 0010B 3330-1 (DX). 0011B 3330-11 (DY). 0012B 3350 (DZ). 0013B 33502 (DA). 0014B 885-42 (DB). 0017B 885-1x (DQ). 0070B ECS I-DC135 DDP (DP). 0071B ECS I-Coupler (DE). 0072B ECS II-DC135 DDP (DP). 0073B ECS II-Coupler (DE). 0074B ECS I-DC145 DDP (DP). 0075B ECS II-DC145 DDP (DP). 0076B LCME-Coupler (DE). 0077B UEM (DE). 0110B 834 (DD). 0111B 836 (DG). 0115B 895 (DC). 0120B 887 (DF). 0121B 887 (DH). 0172B STORNET 0207B ESM-Coupler (DE). 0210B ESM-Low speed port (DP).

Field	Word	Location	Description
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected.
UN	2	17-12	Physical unit number of the unit on which the error was detected.
EST	3	59-48	EST ordinal of the device.
MID	3	23-12	Machine identifier in display code.
CYL	4	35-24	Cylinder containing the media error.
TRK	4	23-12	Physical track containing the media error.
SEC	4	11-0	Physical sector containing the media error.

ROTATING MASS STORAGE	MSGID	0002B, 0003B, 0004B, 0005B, 0007B, 0010B, 0011B, 0012B, 0013B, 0014B, 0017B, 0110B, 0111B, 0115B
844-2x, 844-4x, 885-1x, 7155-401/885-42, 895, 3330-1, 3330-11, 3350, 33502, 7255/834, 7255/836	SYMPTOM	X023B, X024B, X040B, X043B, X050B, X051B, X056B, X063B, X100B, X102B, X103B

6DI, 6DJ, 1HP, 1XM and 1XY will issue the following BML message once per rotating mass storage error. The message is issued whether the error is recovered or unrecovered. This ensures all errors are reported to the last general and detailed status taken.

The message has the following form.

	59	47	41	35	29	23	17	11	0
Word 2	MSGID	SYMPTOM		PP	CH	0	UN	0	
Word 3	EST	RTY	FLG	CHR	0	MID		0	
Word 4	EC	CY		PT	PS	LF		GS	
Word 5	DETAILED STATUS (Words 1-5)								
Word 6	DETAILED STATUS (Words 6-10)								
Word 7	DETAILED STATUS (Words 11-15)								
Word 8	DETAILED STATUS (Words 16-20)								

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0002B 844-2x (DI). 0003B 844-4x (DJ). 0004B 844-2x (DK). 0005B 844-4x (DL). 0007B 885-1x (DM). 0010B 3330-1 (DX). 0011B 3330-11 (DY). 0012B 3350 (DZ). 0013B 33502 (DA). 0014B 7155-401/885-42 (DB). 0017B 885-1x (DQ). 0110B 834 (DD). 0111B 836 (DG). 0115B 895 (DC).
SYMPTOM	2	47-36	Symptom code. X023B Channel Failure. X024B Channel parity error (detected by 6DI, 1HP). X040B Parity error (detected by 6DI, 1HP). X043B Device not ready (detected by 6DI, 1HP). X050B Firmware dead (detected by 6DI, 1HP). X051B Cannot autoload controller (detected by 6DI, 1HP). X056B Unit reserve error (detected by 6DI, 1HP). X063B RAM parity error (detected by 6DI, 1HP). X100B Address error (detected by 6DI, 1HP). X102B Status error (detected by 6DI, 1HP). X103B Controller reserve error (detected by 6DI, 1HP).

Field	Word	Location	Description
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected. Not meaningful for symptom code X100B (address error).
UN	2	17-12	Physical unit number of the unit on which the error was detected. Not meaningful for symptom code X100B (address error).
EST	3	59-48	EST ordinal of the device.
RTY	3	47-42	Retry count.
FLG	3	41-36 (41-38) (37) (36)	Flag field. Reserved (zero). Set if write operation; clear if read operation. Set if unrecovered error, clear if recovered error.
CHR	3	35-30	Channel used for recovery. Not meaningful for symptom code X100B (address error).
MID	3	23-12	Machine identifier in display code.
EC	4	59-48	Error code.
CY	4	47-36	Cylinder.
PT	4	35-30	Physical Track.
PS	4	29-24	Physical Sector.
LF	4	23-12	Last function issued before a function timeout. Valid only for symptom codes X024B, X050B, X051B, and X063B.

Field	Word	Location	Description
GS	4	11-0	General status. See the CDC 7155 Disk Storage Subsystem Reference Manual, 7155-401 Disk Storage Subsystem Hardware Reference Manual, and 65206-2 FSC Hardware Reference Manual for more information on the format of general status.
DETAILED STATUS	5-8	59-0	Detailed status. See the CDC 7155 Disk Storage Subsystem Reference Manual, 7155-401 Disk Storage Subsystem Hardware Reference Manual, and 65206-2 FSC Hardware Reference Manual for more information on the format of detailed status. If all four words are zero, the detailed status is not available. There is no detailed status in the case of an address error (SYMPTOM X100B).

ROTATING MASS STORAGE	MSGID 0006B
819	SYMPTOM X101B, X102B, X103B, X104B

The first message has the following form.

	59	47	41	35	29	23	17	11	0
Word 2	0006B	SYMPTOM		FP	CH	0	UN	0	
Word 3	EST	RTY	FLG	CHR	0				
Word 4	PPID	COUNT		C1	C2		C3		
Word 5	C4	C5		C6	C7		C8		
Word 6	C9	D1		D2	D3		D4		
Word 7	D5	E1		E2	E3		E1		

Continuation messages have the following form.

	59	47	41	35	29	23	17	11	0
Word 2	0006B	SYMPTOM		FP	CH	0	UN	0	
Word 3	EST	RTY	FLG	FP	0				
Word 4	PPID	0		E2	E3		E1		
Word 5	E2	E3		E1	E2		E3		
Word 6	E1	E2		E3	E1		E2		
Word 7	E3	E1		E2	E3		0		

Field	Location	Description
SYMPTOM	47-36	Symptom code. X101B Unrecovered data error. X102B Recovered data error. X103B Hardware error. X104B Software error.
FP	35-30	First level PP (FLPP) number.
CH	29-24	FLPP data channel (2 or 6).
UN	17-12	Unit number.
EST	59-48	EST ordinal.
RTY	47-42	Retry count.
FLG	41-36	Flag field.
	(41-40)	Reserved (zero).
	(39)	Set if second message of pair; clear if first message of pair.
	(38)	Set if first message of pair; clear if second message of pair.
	(37)	Set if write operation; clear if read operation.
	(36)	Set if unrecovered error; clear if recovered error.
CHR	35-30	Recovery channel.
PPID	59-48	Input register address.
COUNT	47-36	Error data byte count.
C1	11	Request aborted.
	10	Unrecovered data transfer error.
	9	Operation completed successfully.
	8	Controller dies (no resume on control channel).
	7	No resume to record flag sent to disk.
	6	Slave aborted the request.
	5	Unit never comes on-cylinder.
	4	Unit down.
	3	Channel down.
	2	Request parameter error.
	1	Hardware error.
	0	Partner died.

Field	Location	Description
C2	11-6	Function code. 0: Read. 1: Write. 2: Write check.
	5	Write position verify.
	4-0	Physical unit number. Bits 0-1: Physical unit address. Bit 2: 0-Primary controller. 1-Secondary controller.
C3	9-0	Cylinder address.
C4	11-0	Device type. 0: DV device. 1: DW device.
C5	11-0	Total number of PP error packet words.
C6	9-6	Head group.
	4-0	Starting sector.
C7	6-0	Sector count. Number of sectors to transfer for request.
C8	11-10	Previous request on this unit.
	9-0	Previous cylinder address.
C9	9-6	Previous head group.
	4-0	Previous starting sector.
D1	11	Slave encountered error.
	10	Error during read/write of data. See controller status for type of error.
	9	Not-on-cylinder status occurred without previous position function.
	8	Unused.
	7	Subsystem busy.
	6	Error correction attempted. Fields E1, E2, and E3 are defined by F1, F2, and F3 below. These fields can be repeated.

Field	Location	Description
	5	Unit not ready (maximum includes fields E1 and E2).
	4	Bad header address. Unit, track, head or sector in header is not desired position (includes fields E1 and E2).
	3	Cylinder address in cylinder status is not desired cylinder (includes field E1).
	2	Head address in head status is not desired head (includes field E1).
	1	Unit number in controller status is not desired unit or controller error during seek.
	0	Seek error.
D2	11-0	Subsystem status.
D3	11-0	Controller status (if controller error).
D4	9-0	Retry count. From this value the succeeding offset position or read strobe position can be computed.
D5	9-6	Head group expected.
	4-0	Sector address expected.

The format of the E1, E2, and E3 fields depends on the data returned in D1. See the description of D1 to determine which definition of E1, E2, and E3 applies.

Field	Location	Description
E1	11-0	Cylinder and/or head status, if bad. First word of header, if bad unit fault status.
E2	11-0	Interlock status or head and sector in header, if bad.
F1		Error code 1 status.
F2		Error code 2 status.
F3		Error code 3 status.

UNIT RECORD EQUIPMENT	MSGID 0020B, 0021B, 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B, 0031B, 0032B
INCOMPLETE DATA TRANSFER	SYMPTOM 0005B

	59–48	47–42	41–36	35–30	29–24	23–18	17–12	11–1	0
Word 2	MSGID	0005B		PP	CH	EQ	0		
Word 3	EST	RTY	FLG	0		MID		0	
Word 4	BYTE	0		FUNC		0			

Field	Word	Location	Description
MSGID	2	59–48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
PP	2	35–30	PP that detected the error.
CH	2	29–24	Channel on which the error was detected.
EQ	2	23–18	Equipment number.
EST	3	59–48	EST ordinal of the equipment.
RTY	3	47–42	Number of retries attempted.

Field	Word	Location	Description
FLG	3	41-36	Flag field. Bit 36 0 - Recovered error. 1 - Unreceovered error.
MID	3	23-12	Machine identifier.
BYTE	4	59-48	Byte count not transferred.
FUNC	4	35-24	Function code.

UNIT RECORD EQUIPMENT	MSGID 0020B, 0021B, 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B
TRANSMISSION PARITY ERROR	SYMPTOM 0010B

	59–48	47–36	35–30	29–24	23–18	17–12	11–0
Word 2	MSGID	0010B	PP	CH	EQ	0	
Word 3	EST	0			MID	0	
Word 4	DCCS	EQPS	FUNC		0		

Field	Word	Location	Description
MSGID	2	59–48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200
PP	2	35–30	PP that detected the error.
CH	2	29–24	Channel on which the error was detected.
EQ	2	23–18	Equipment number.
EST	3	59–48	EST ordinal of the equipment.
MID	3	23–12	Machine identifier.
DCCS	4	59–48	DCC status.
EQPS	4	47–36	Equipment status.
FUNC	4	35–24	Function code.

UNIT RECORD EQUIPMENT	MSGID 0020B, 0021B, 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B, 0031B, 0032B
CHANNEL PARITY ERROR	SYMPTOM 0024B

	59–47	41–35	29–23	17–11	0
Word 2	MSGID	0024B	PP / CH	EQ	0
Word 3	EST	RTY / FLG	0	MID	0
Word 4	0		FUNC	0	

Field	Word	Location	Description
MSGID	2	59–48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
PP	2	35–30	PP that detected the error.
CH	2	29–24	Channel on which the error was detected.
EQ	2	23–18	Equipment number.
EST	3	59–48	EST ordinal of the equipment.
RTY	3	47–42	Number of retries attempted.

Field	Word	Location	Description
FLG	3	41-36	Flag field. Bit 36 0 - Recovered error. 1 - Unrecovered error.
MID	3	23-12	Machine identifier.
FUNC	4	35-24	Function code.

UNIT RECORD EQUIPMENT	MSGID 0020B, 0021B, 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B
FUNCTION REJECT	SYMPTOM 0025B

	59–48	47–36	35–30	29–24	23–18	17–12	11–0
Word 2	MSGID	0025B	PP	CH	EQ	0	
Word 3	EST	0			MID	0	
Word 4	DCCS	EQPS	FUNC		0		

Field	Word	Location	Description
MSGID	2	59–48	Message identifier. 0020B 405 0021B 415 0022B 412 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200
PP	2	35–30	PP that detected the error.
CH	2	29–24	Channel on which the error was detected.
EQ	2	23–18	Equipment number.
EST	3	59–48	EST ordinal of the equipment.
MID	3	23–12	Machine identifier.
DCCS	4	59–48	DCC status.
EQPS	4	47–36	Equipment status.
FUNC	4	35–24	Function code.

UNIT RECORD EQUIPMENT	MSGID 0020B, 0021B, 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B, 0031B, 0032B
EQUIPMENT ON/OFF	SYMPTOM 0027B, 0030B, 0031B, 0032B

	59	47	35	29	23	17	11	0
Word 2	MSGID	SYMPTOM	PP	CH	EQ	0		
Word 3	EST	0			MID		0	

Field	Word	Location	Description
MSGID	2	59-48	Message identifier 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
SYMPTOM	2	47-36	Symptom code. 0027B Equipment turned off by operator. 0030B Equipment turned off by system. 0031B Equipment turned on by operator. 0032B Equipment turned on by system.
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected.

Field	Word	Location	Description
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.

UNIT RECORD EQUIPMENT	MSGID 0020B, 0021B, 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B
CONTROLLER HUNG BUSY	SYMPTOM 0044B

	59–48	47–36	35–30	29–24	23–18	17–12	11–0
Word 2	MSGID	0044B	PP	CH	EQ	0	
Word 3	EST	0			MID	0	
Word 4	0		FUNC		0		

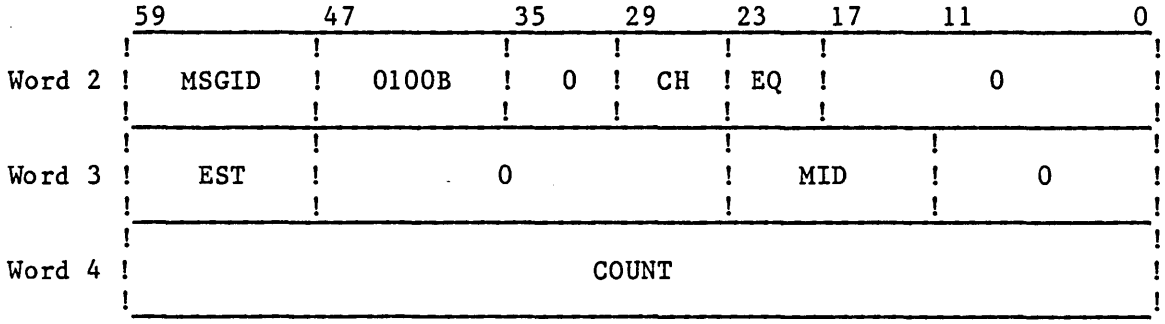
Field	Word	Location	Description
MSGID	2	59–48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200
PP	2	35–30	PP that detected the error.
CH	2	29–24	Channel on which the error was detected.
EQ	2	23–18	Equipment number.
EST	3	59–48	EST ordinal of the equipment.
MID	3	23–12	Machine identifier.
FUNC	4	35–24	Function code.

UNIT RECORD EQUIPMENT	MSGID 0020B, 0021B, 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B, 0031B, 0032B
FUNCTION TIMEOUT	SYMPTOM 0050B

	59–48	47–36	35–30	29–24	23–18	17–12	11–0
Word 2	MSGID	0050B	PP	CH	EQ	0	
Word 3	EST	0			MID	0	
Word 4	0		FUNC		0		

Field	Word	Location	Description
MSGID	2	59–48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
PP	2	35–30	PP that detected the error.
CH	2	29–24	Channel on which the error was detected.
EQ	2	23–18	Equipment number.
EST	3	59–48	EST ordinal of the equipment.
MID	3	23–12	Machine identifier.
FUNC	4	35–24	Function code.

UNIT RECORD EQUIPMENT	MSGID 0020B, 0021B, 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B, 0031B, 0032B
ACCOUNTING DATA	SYMPTOM 0100B



Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
CH	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
COUNT	4	59-00	Integer count of lines printed, cards read, or cards punched.

UNIT RECORD EQUIPMENT	MSGID 0020B, 0021B
COMPARE ERROR	SYMPTOM 0101B

	59	47	35	29	23	17	11	0
Word 2	MSGID	0101B	PP	CH	EQ	0		
Word 3	EST	0			MID		0	
Word 4	DCCS	EQPS	0					

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0020B 405 0021B 415
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
DCCS	4	59-48	DCC status.
EQPS	4	47-36	Equipment status.

UNIT RECORD EQUIPMENT	MSGID 0021B
FEED FAILURE	SYMPTOM 0102B

	59–48	47–36	35–30	29–24	23–18	17–12	11–0
Word 2	0021B	0102B	PP	CH	EQ	0	
Word 3	EST	0			MID	0	
Word 4	DCCS	EQPS	0				

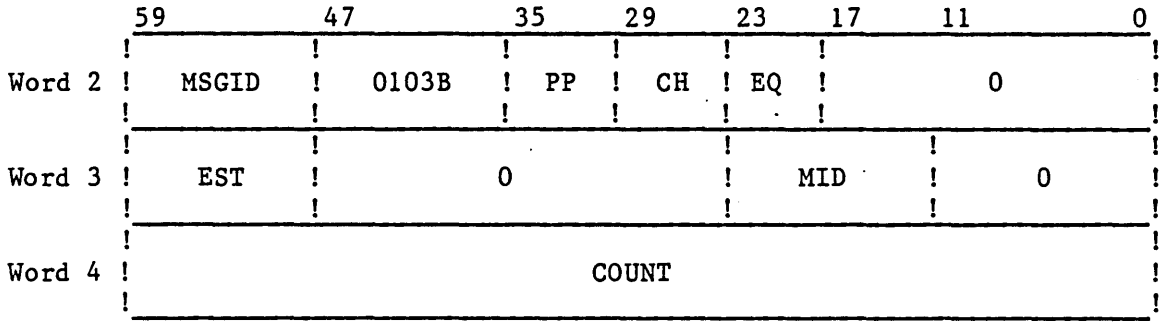
Field	Word	Location	Description
PP	2	35–30	PP that detected the error.
CH	2	29–24	Channel on which the error was detected.
EQ	2	23–18	Equipment number.
EST	3	59–48	EST ordinal of the equipment.
MID	3	23–12	Machine identifier.
DCCS	4	59–48	DCC status.
EQPS	4	47–36	Equipment status.

UNIT RECORD EQUIPMENT	MSGID 0026B, 0027B, 0030B
PFC ERROR	SYMPTOM 0102B

	59	47	35	29	23	17	11	0
Word 2	MSGID	0102B	PP	CH	EQ	0		
Word 3	EST	0			MID		0	
Word 4	DCCS	EQPS	0		STAT		0	

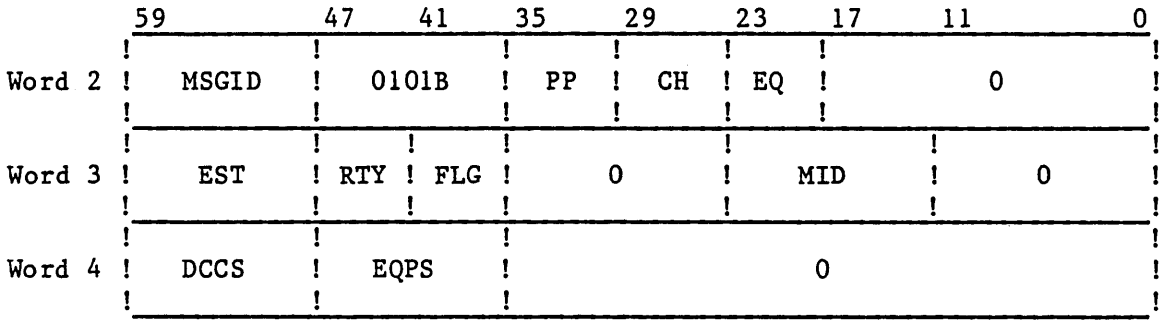
Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0026B 580-120 0027B 580-160 0030B 580-200
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
DCCS	4	59-48	DCC status.
EQPS	4	47-36	Equipment status.
STAT	4	23-12	Maintenance status.

UNIT RECORD EQUIPMENT	MSGID 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B, 0031B, 0032B
PRINT ERROR TOTAL	SYMPTOM 0103B



Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0020B 405 0021B 415 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200 0031B 5870 0032B 5970 (not supported)
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
MID	3	23-12	Machine identifier.
COUNT	4	59-0	Number of print errors.

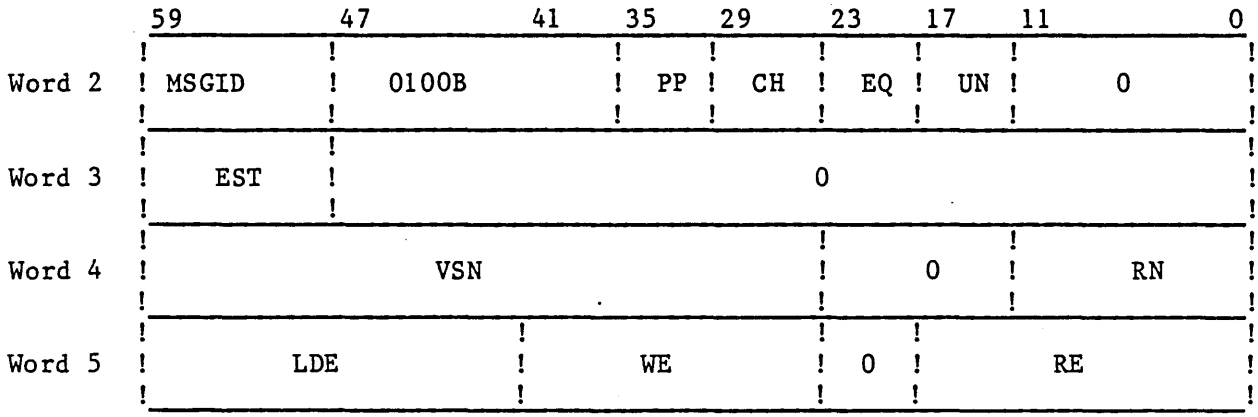
UNIT RECORD EQUIPMENT	MSGID 0022B, 0023B, 0024B, 0025B, 0026B, 0027B, 0030B
PRINT ERROR	SYMPTOM 0101B



Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0022B 512 0023B 580-12 0024B 580-16 0025B 580-20 0026B 580-120 0027B 580-160 0030B 580-200
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36	Flag Field. Bit 36 0 - Recovered error. 1 - Unrecovered error.
MID	3	23-12	Machine identifier.
DCCS	4	59-48	DCC status.
EQPS	4	47-36	Equipment status.

TAPE UNIT	MSGID 0042B, 0044B, 0045B, 0052B, 0053B, 0054B, 0056B, 0057B
CORRECTED TAPE ERRORS	SYMPTOM 0100B

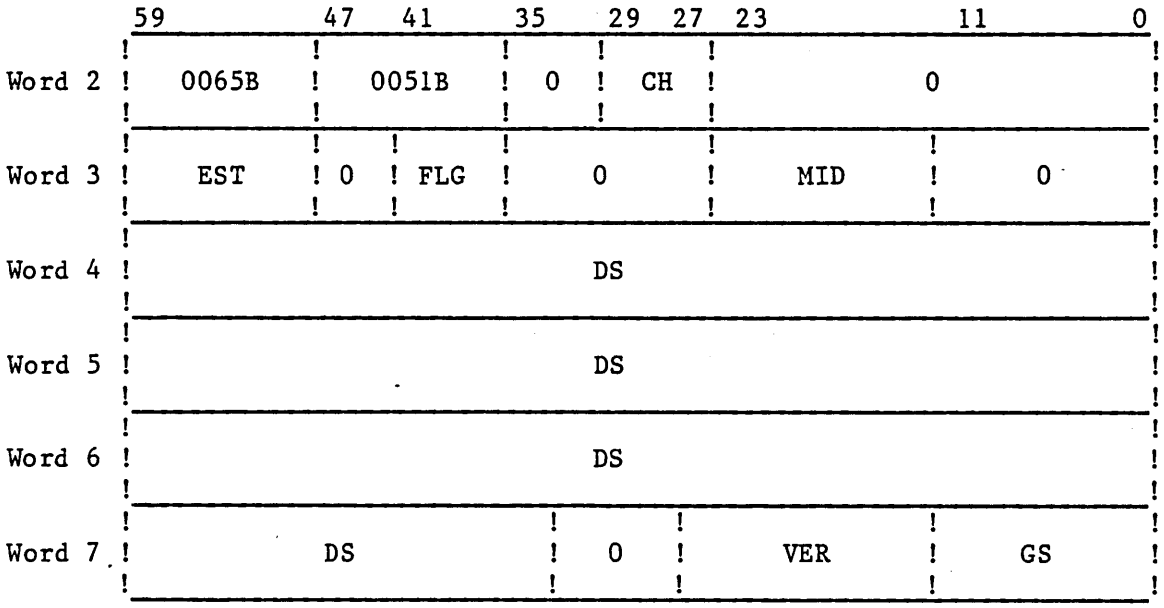
This message is issued by MAGNET/1MT when a tape is returned or unloaded. This message indicates how many errors were encountered on the tape.



Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0042B MTS 7-Track 0044B ATS 7-Track 0045B FSC 7-Track 0052B MTS 9-Track 0053B CMTS 9-Track 0054B ATS 9-Track 0056B FSC 9-Track 0057B ISMT 9-Track
PP	2	35-30	PP number.
CH	2	29-24	Channel number.
EQ	2	23-18	Equipment number.
UN	2	17-12	Unit number.
EST	3	59-48	EST ordinal.
VSN	4	59-24	Volume serial number.
RN	4	11-0	Reel number.
LDE	5	59-42	Late data errors.
WE	5	41-24	Corrected write errors.
RE	5	17-0	Corrected read errors.

MDI	MSGID 0065B
INITIALIZATION ERROR	SYMPTOM 0051B

This BML message is issued if an unrecovered error occurs while initializing an MDI, the CDCNET component known as a mainframe device interface.



Field	Word	Location	Description
CH	2	29-24	Channel on which the error was detected.
EST	3	59-48	EST ordinal of the equipment.
FLG	3	41-36 (37)	Flag field. Set to indicate unrecovered error.
MID	3	23-12	Machine identifier.
DS	4 5 6 7	59-0 59-0 59-0 59-32	MCI detailed status. MCI detailed status. MCI detailed status. MCI detailed status.
VER	7	27-12	Version number of the software to be loaded.
GS	7	11-0	MCI general status.

6683 SATELLITE COUPLER	MSGID 0067B
RECEIVE BLOCK LENGTH ERROR	SYMPTOM 0005B

The following message is issued to report errors with the 6683 Satellite Coupler.

	59–48	47–36	35–30	29–24	23–18	17–12	11–0
Word 2	0067B	0005B	PP	CH	EQ	0	
Word 3	EST	0					
Word 4	0				BN		BE

Field	Word	Location	Description
PP	2	35–30	PP that detected the error.
CH	2	29–24	Channel on which the error was detected.
EQ	2	23–18	Equipment number.
EST	3	59–48	EST ordinal of the equipment.
BN	4	23–12	Octal number of bytes not received.
BE	4	11–0	Octal number of bytes expected.

6683 SATELLITE COUPLER	MSGID 0067B
ERROR CONDITION	SYMPTOM 0011B, 0076B, 0102B, 0103B 0104B, 0105B, 0106B

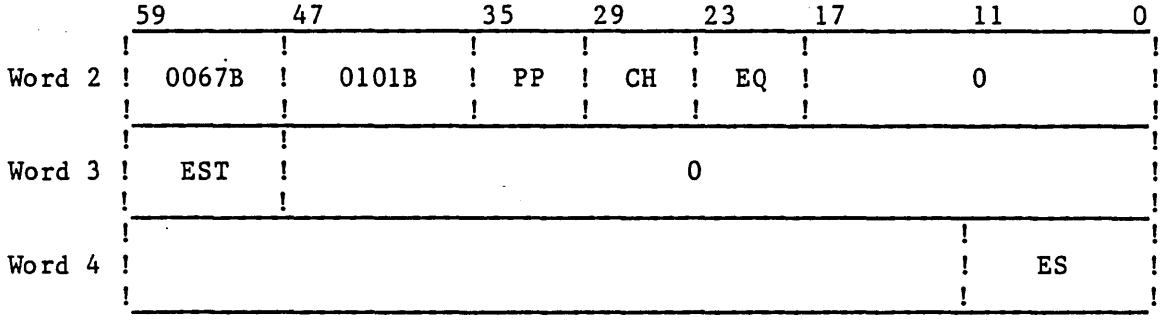
The following message is issued to report errors with the 6683 Satellite Coupler.

	59–48	47–36	35–30	29–24	23–18	17–12	11–0
Word 2	0067B	SYMPTOM	PP	CH	EQ		0
Word 3	EST			0			

Field	Word	Location	Description
SYMPTOM	2	47–36	Symptom code. 0011B Hardware/software failure. 0076B Undefined error. 0102B Channel left active. 0103B Send transmission broken. 0104B Receive block invalid. 0105B Invalid control/length byte. 0106B Coupler/channel test failed.
PP	2	35–30	PP number.
CH	2	29–24	Channel number.
EQ	2	23–18	Equipment number of 6683.
EST	3	59–48	EST ordinal of 6683.

6683 SATELLITE COUPLER	MSGID 0067B
INVALID COUPLER STATUS	SYMPTOM 0101B

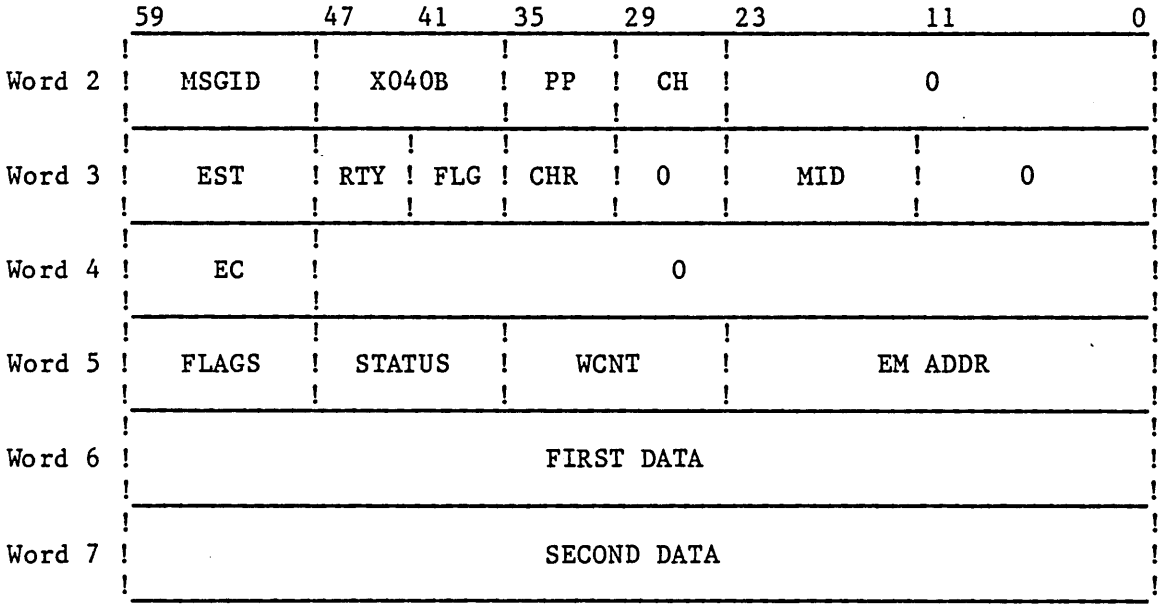
The following message is issued to report errors with the 6683 Satellite Coupler.



Field	Word	Location	Description
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected.
EQ	2	23-18	Equipment number.
EST	3	59-48	EST ordinal of the equipment.
ES	4	11-0	Bad status as returned by the coupler.

EXTENDED MEMORY	MSGID 0070B, 0072B, 0074B, 0075B, 0210B, 0172B
ERROR DETECTED BY 6DP	SYMPTOM X040B

6DP issues the following message when a PP detects a parity error while transferring data to or from extended memory via a DDP/low speed port.



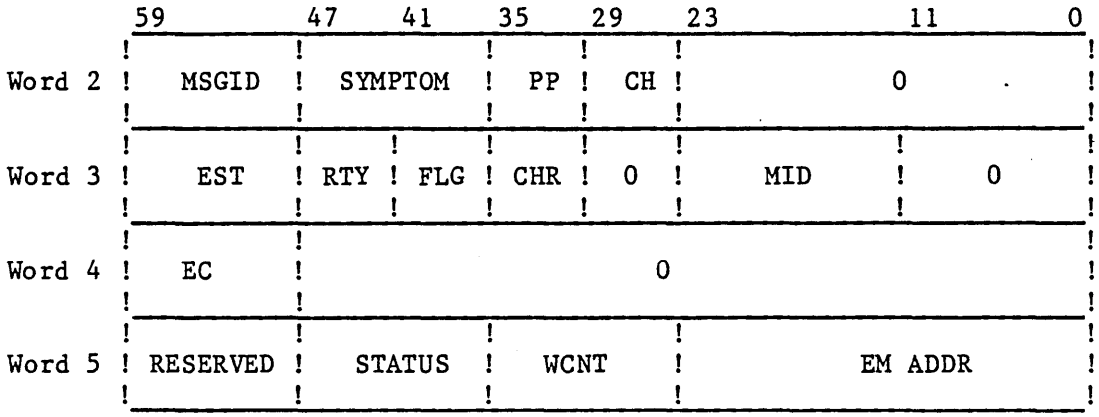
Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0070B ECS I (DC135 DDP). 0072B ECS II (DC135 DDP). 0074B ECS I (DC145 DDP). 0075B ECS II (DC145 DDP). 0172B STORNET. 0210B ESM (Low speed port).

Field	Word	Location	Description
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected. Not meaningful for symptom code X100B (address error).
EST	3	59-48	EST ordinal of the device.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36 (41-38) (37) (36)	Flag Field. Reserved. Set if write operation; clear if read operation. Set if unrecovered error; clear if recovered error.
CHR	3	35-30	Channel used for recovery. Not meaningful for symptom code X100B (address error).
MID	3	23-12	Machine identifier in display code.
EC	4	59-48	Error code.
FLAGS	5	59-48 (59-50) (49) (48)	Flag Field. Reserved. Set if SECOND DATA is present; clear if not. Set if FIRST DATA is present; clear if not.
STATUS	5	47-36	Status received back from a 5004 DDP function. This status is taken immediately after a single word read or write. The status indicates whether the operation was or was not successful. If unsuccessful, the status attempts to explain the problem.
WCNT	5	35-24	If WCNT is greater than 1, it is the number of words in the block being transferred when the error occurred. EM ADDR is the address of the beginning of that transfer. If WCNT is equal to 1, EM ADDR is the actual address where the error occurred.
EM ADDR	5	23-0	Transfer address or error address in extended memory.

Field	Word	Location	Description
FIRST DATA	6	59-0	This field shows bad data received on the initial read of recovered parity errors. Data received on the initial read of unrecovered parity errors is also shown, but it is not known if the data is bad or good. This field also shows data for parity errors the driver tried to write to EM.
SECOND DATA	7	59-0	This field shows good data received on the retry of recovered parity errors, and bad data received on the retry of unrecovered parity errors.

EXTENDED MEMORY	MSGID 0070B, 0072B, 0074B, 0075B, 0210B, 0172B
ERRORS DETECTED BY 6DP	SYMPTOM X050B, X100B, X102B

6DP issues the following message when a PP detects an error other than a parity error while transferring data to or from extended memory via a DDP.



Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0070B ESC I (DC135 DDP). 0072B ECS II (DC135 DDP). 0074B ECS I (DC145 DDP). 0075B ECS II (DC145 DDP). 0172B STORNET. 0210B ESM (Low speed port).
SYMPTOM	2	47-36	Symptom code. X050B Firmware dead (detected by 6DP). X100B Address error (detected by 6DP). X102B Status error (detected by 6DP).
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected. Not meaningful for symptom code X100B (address error).
EST	3	59-48	EST ordinal of the device.

Field	Word	Location	Description
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36	Flag field.
		(41-38)	Reserved.
		(37)	Set if write operation; clear if read operation.
		(36)	Set if unrecovered error; clear if recovered error.
CHR	3	35-30	Channel used for recovery. Not meaningful for symptom code X100B (address error).
MID	3	23-12	Machine identifier in display code.
EC	4	59-48	Error code.
STATUS	5	47-36	Status received back from a 5004 DDP function. This status is taken immediately after a single word read or write. The status indicates whether the operation was or was not successful. If unsuccessful, the status attempts to explain the problem.
WCNT	5	35-24	When greater than 1, WCNT is the number of words being transferred when the error occurred. EM ADDR is the address of the beginning of that transfer. When equal to 1, EM ADDR is the actual address where the error occurred.
EM ADDR	5	23-0	Transfer address or error address in extended memory.

EXTENDED MEMORY	MSGID 0071B, 0073B, 0076B, 0207B
ERRORS DETECTED BY 6DE	SYMPTOM X040B, X100B

6DE issues the following message when the PIOM monitor function has reported an unrecoverable error on a DE device. The PIOM function returns the status in the STATUS field.

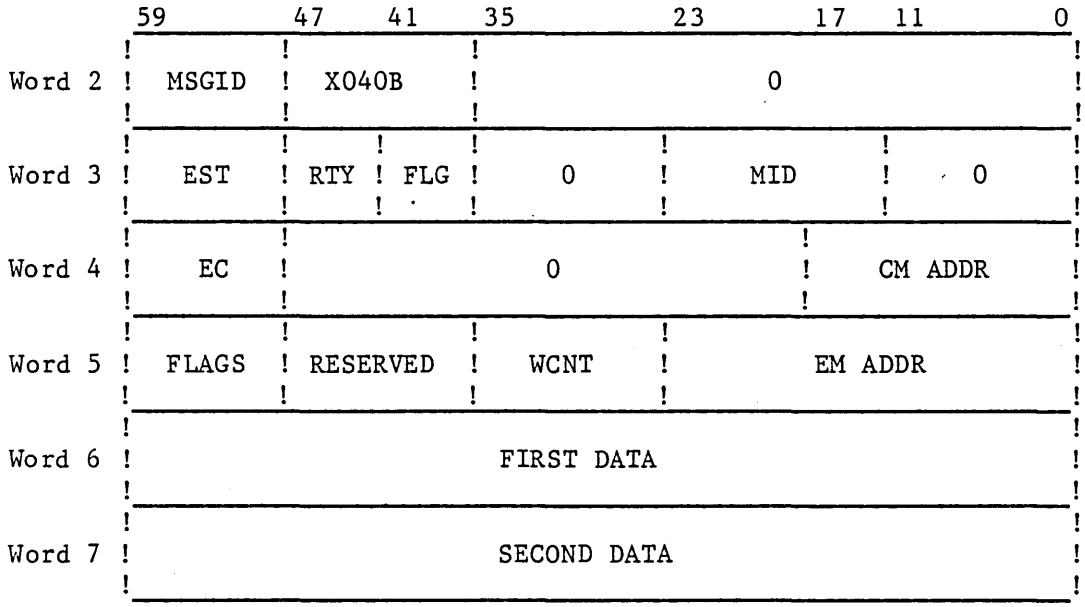
	59–48	47–36	35–30	29–24	23–12	11–1	0
Word 2	MSGID	SYMPTOM	PP	0			
Word 3	EST	RTY	FLG	0	MID		0
Word 4	EC			0			
Word 5	RESERVED	STATUS		WCNT	EM ADDR		

Field	Word	Location	Description
MSGID	2	59–48	Message identifier. 0071B ECS I (Coupler). 0073B ECS II (Coupler). 0076B LCME. 0207B ESM (Coupler).
SYMPTOM	2	47–36	Symptom code. X040B Parity error. X100B Address error.

Field	Word	Location	Description
PP	2	35-30	PP that detected the error.
EST	3	59-48	EST ordinal of the device.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36	Flag field.
		(41-38)	Reserved.
		(37)	Set if write operation; clear if read operation.
		(36)	Set if unrecovered error; clear if recovered error. Currently, this is always set, since all errors reported are unrecovered.
MID	3	23-12	Machine identifier in display code.
EC	4	59-48	Error code.
STATUS	5	47-36	Status returned from CPUMTR when error occurred. 1 Unrecoverable hardware error (UHES). 4 Unrecoverable parity error (UPES).
WCNT	5	35-24	When greater than 1, WCNT is the number of words being transferred when the error occurred. EM ADDR is the address of the beinnning of that transfer. When equal to 1, EM ADDR is the actual address where the error occurred.
EM ADDR	5	23-0	Transfer address or error address in extended memory.

EXTENDED MEMORY ECS I, ECS II, LCME, ESM	MSGID 0070B, 0071B, 0072B, 0073B, 0074B, 0075B, 0076B, 0207B, 0210B
ERRORS DETECTED BY 1MC AND ELM	SYMPTOM X040B

Both 1MC and ELM issue the following message when an extended memory parity error occurs. 1MC reports errors detected by CPUMTR, and ELM reports errors detected by user programs while writing to or reading from user extended memory.



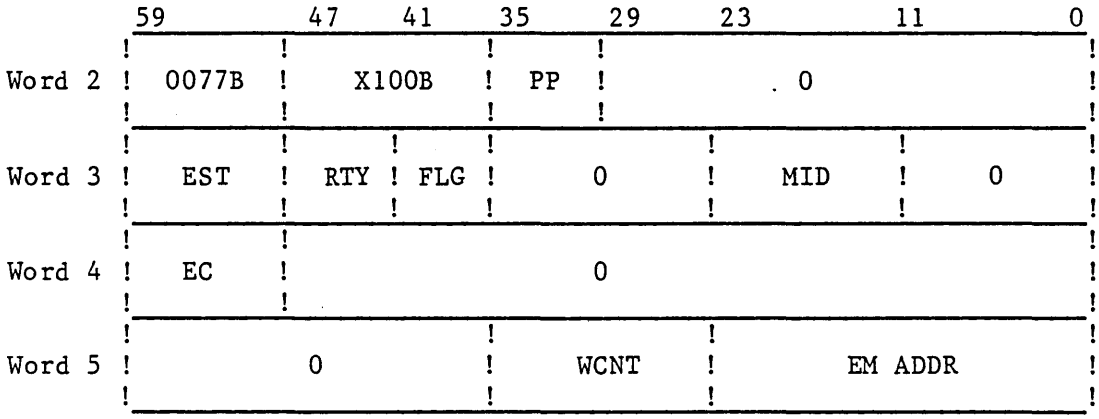
Field	Word	Location	Description
MSGID	2	59-48	Message identifier. The error occurred on the coupler path to extended memory, even if the device is defined with a DDP. 0070B ECS I (DC135 DDP). 0071B ECS I (Coupler). 0072B ECS II (DC135 DDP). 0073B ECS II (Coupler). 0074B ECS I (DC145 DDP). 0075B ECS II (DC145 DDP). 0076B LCME. 0207B ESM (Coupler). 0210B ESM (Low speed port).

Field	Word	Location	Description
EST	3	59-48	EST ordinal of the device.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36	Flag field.
		(41-38)	Reserved.
		(37)	Set if write operation; clear if read operation.
		(36)	Set if unrecovered error; clear if recovered error.
MID	3	23-12	Machine identifier in display code.
CM ADDR	4	17-0	Address in central memory to which or from which the EM transfer was supposed to occur.
EC	4	59-48	Error code.
FLAGS	5	59-48	Flag field.
		(59-50)	Reserved.
		(49)	Set if SECOND DATA is present; clear if not.
		(48)	Set if FIRST DATA is present; clear if not.
WCNT	5	35-24	When greater than 1, WCNT is the number of words being transferred when the error occurred. EM ADDR is the address of the beginning of that transfer. When equal to 1, EM ADDR is the actual address where the error occurred.
EM ADDR	5	23-0	Transfer address or error address in extended memory.

Field	Word	Location	Description
FIRST DATA	6	59-0	This field shows bad data received on the initial read of recovered parity errors. Data received on the initial read of unrecovered parity errors is also shown, but it is not known if the data is bad or good. This field also shows data for parity errors the driver tried to write to EM.
SECOND DATA	7	59-0	This field shows good data received on the retry of recovered parity errors, and bad data received on the retry of unrecovered parity errors.

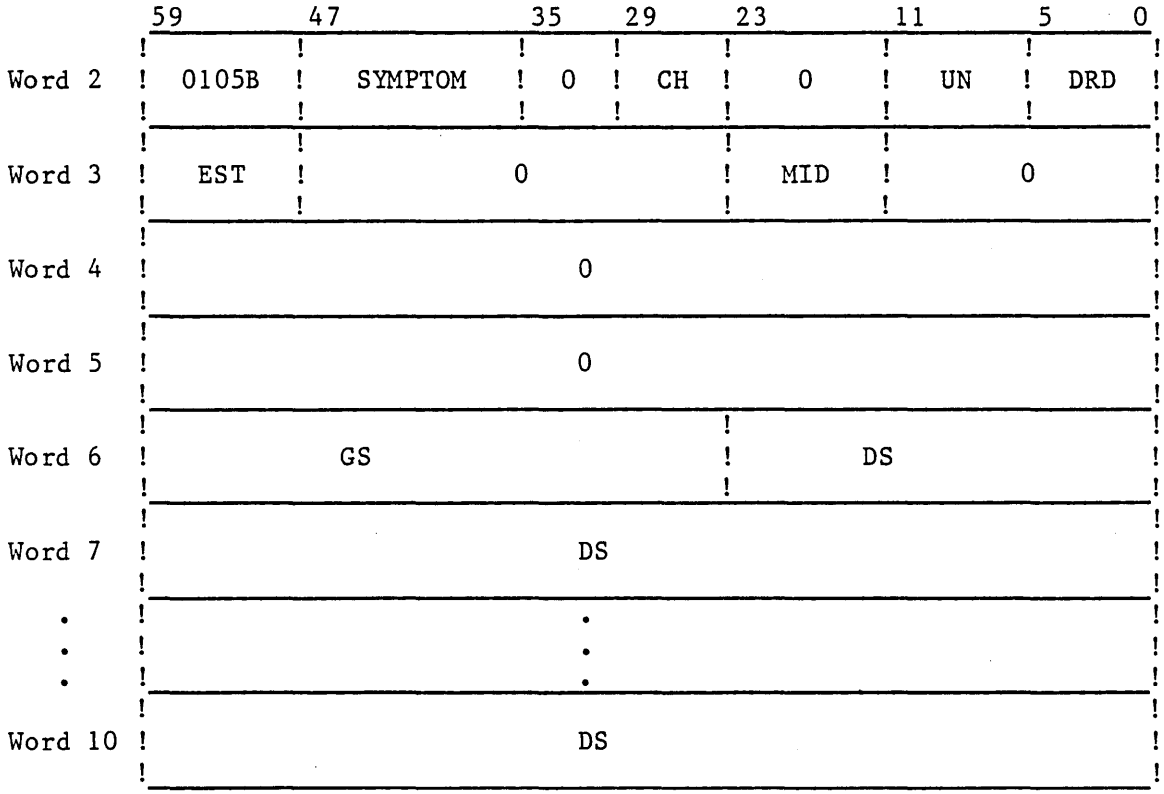
EXTENDED MEMORY (UEM)	MSGID 0077B
ERRORS DETECTED BY 6DX	SYMPTOM X100B

6DX issues the following message when an address error occurs while attempting to read or write UEM.



Field	Word	Location	Description
PP	2	35-30	PP that detected the error.
EST	3	59-48	EST ordinal of the device.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36	Flag field.
		(40-38)	Reserved.
		(37)	Set if write operation; clear if read operation.
		(36)	Set if unrecovered error; clear if recovered error.
MID	3	23-12	Machine identifier in display code.
EC	4	59-48	Error code.
WCNT	5	35-24	When greater than 1, WCNT is the number of words being transferred when the error occurred. EM ADDR is the address of the beginning of that transfer. When equal to 1, the EM ADDR is the actual address where the error occured.
EM ADDR	5	23-0	Transfer address or error address in extended memory.

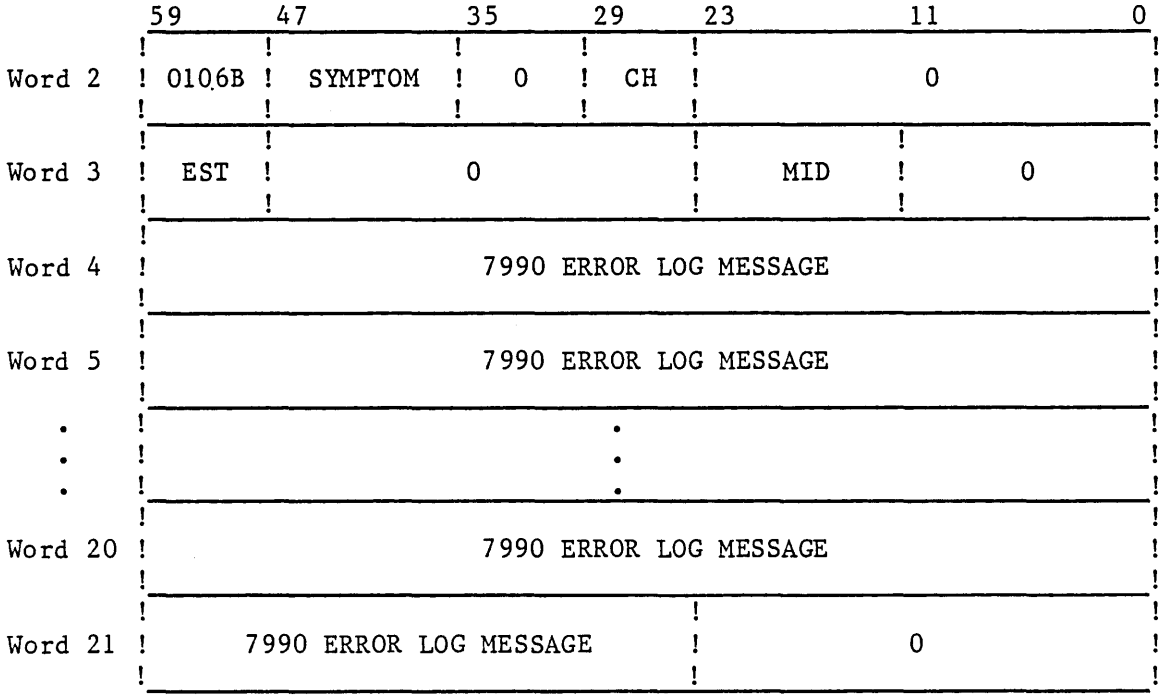
MSE (7990)		MSGID	0105B
FSC ERRORS		SYMPTOM	0001B, 0002B, 0003B, 0004B 0005B, 0006B, 0007B, 0010B 0011B, 0012B, 0020B, 0021B 0022B, 0023B, 0024B, 0025B 0026B, 0027B, 0030B, 0031B 0032B, 0033B



Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0001B Invalid function. 0002B Data length error. 0003B Control word error. 0004B Buffer argument error. 0005B Header/trailer error. 0006B End of volume. 0007B Invalid unit number. 0010B Buffer timeout error.

Field	Word	Location	Description (Continued)
			0011B Tape bottom right. 0012B Terminate flag detected. 0020B Status error. 0021B Channel hung on input. 0022B Channel hung on output. 0023B Function timeout. 0024B No end of operation. 0025B Channel malfunction. 0026B Channel parity error. 0027B FSC memory parity error. 0030B FSC not running. 0031B FSC abnormal. 0032B FSC diagnostic failure. 0033B Checksum error (CM drivers).
CH	2	29-24	Primary channel used.
UN	2	11-6	Unit number of an SM.
DRD	2	5-0	DRD unit number.
EST	3	59-48	EST ordinal of controller.
MID	3	23-12	Machine identifier.
GS	6	59-24	FSC general status and detailed status origin words.
DS	6	23-0	First two bytes of 7990 detail status.
DS	7-10	59-0	Reminder of 7990 detailed status. The 7990 detailed status consists of 18-8 bit parcels. Each parcel is packed into a 12-bit byte.

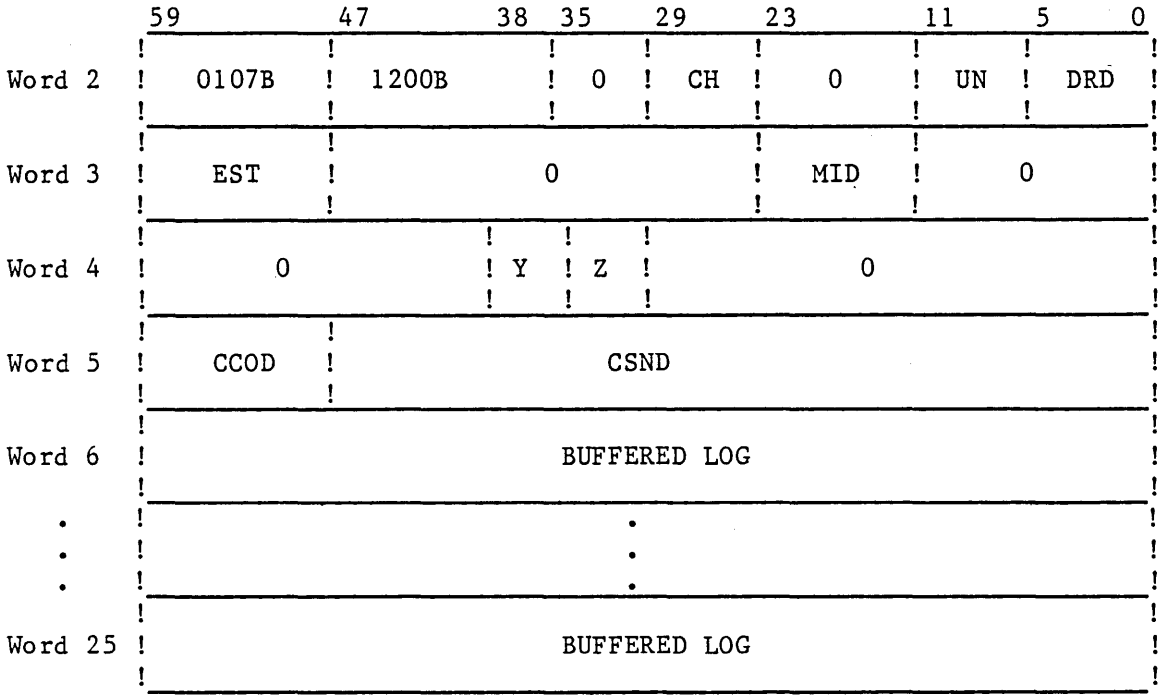
MSE (7990)		MSGID	0106B
FSC ERRORS		SYMPTOM	0036B, 0060B, 0100B, 0101B 0103B, 0104B, 0107B, 0140B 0141B



Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0036B Error log overflow. 0060B CIF, DTI/DTO errors. 0100B DRD, DRC, DIF, DTI/DTO errors (device/diagnostic driver). 0101B Accessor errors (drive/diagnostic driver). 0103B Drive/path status change. 0104B ALT DRD, DRC, DIF, DTI/DTO errors (device/diagnostic driver).

Field	Word	Location	Description
			0107B Device driver software error. 0140B CPU/memory hardware detected errors. 0141B Software errors.
CH	2	29-24	Primary channel used.
EST	3	59-48	EST ordinal of the controller.
MID	3	23-12	Machine identifier.

MSE (7990)	MSGID 0107B
USAGE	SYMPTOM 1200B



Field	Word	Location	Description
CH	2	29-24	Primary channel used.
UN	2	11-6	SM unit number.
DRD	2	5-0	DRD unit number.
EST	3	59-48	EST ordinal of the controller.
MID	3	23-12	Machine identifier in display code.
Y	4	38-34	Vertical coordinate cartridge location.
Z	4	33-30	Horizontal coordinate cartridge location.
CCOD	5	59-48	Identifier letter of the cartridge maker (I=IBM).
CSND	5	47-0	Cartridge serial number in display code.

ROTATING MASS STORAGE	MSGID 0110B, 0111B
834, 836	SYMPTOM 0200B

If an unrecoverable error meeting special criteria is detected on an 834 or 836 drive, a power up drive function is used to initiate the level 1 diagnostics in the control module. The NOS driver 6DJ will issue the following message to the BML after the power up drive function is completed.

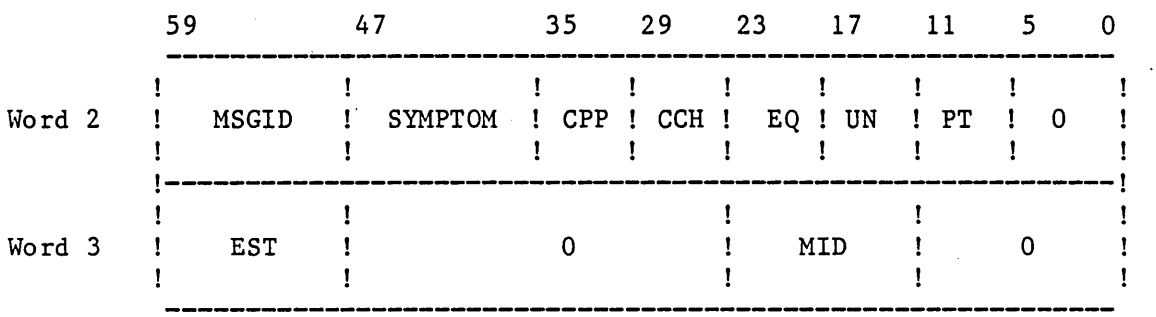
The message has the following form.

	59	47	41	35	29	23	17	11	0
Word 2	MSGID	0200B		PP	CH	0	UN	0	
Word 3	EST	RTY	FLG	0		MID		0	
Word 4	0							GS	
Word 5	DETAILED STATUS (Words 1-5)								
Word 6	DETAILED STATUS (Words 6-10)								
Word 7	DETAILED STATUS (Words 11-15)								
Word 8	DETAILED STATUS (Words 16-20)								

Field	Word	Location	Description
MSGID	2	59-48	Message identifier. 0110B 834. 0111B 836.
PP	2	35-30	PP that detected the error.
CH	2	29-24	Channel on which the error was detected.
UN	2	17-12	Physical unit number of the unit on which the error was detected.
EST	3	59-48	EST ordinal of the device.
RTY	3	47-42	Number of retries attempted.
FLG	3	41-36 (41-38) (37) (36)	Flag field. Reserved. Set if write operation; clear if recovered error. Set if unrecovered error; clear if recovered error.
MID	3	23-12	Machine identifier in display code.
GS	4	11-0	General status. If zero, then no errors were detected. See the 834 or 836 Intelligent Small Disk Subsystem Hardware Reference Manual for more information on the format of general status after Level 1 diagnostics have been run.
DETAILED STATUS	5-8	59-0	Detailed status. See 834 or 836 Intelligent Small Disk Subsystem Hardware Reference Manual for more information on the format of detailed status after Level 1 diagnostics have been run.

ROTATING MASS STORAGE	MSGID: 0120B, 0121B
887	SYMPTOM: 0015B

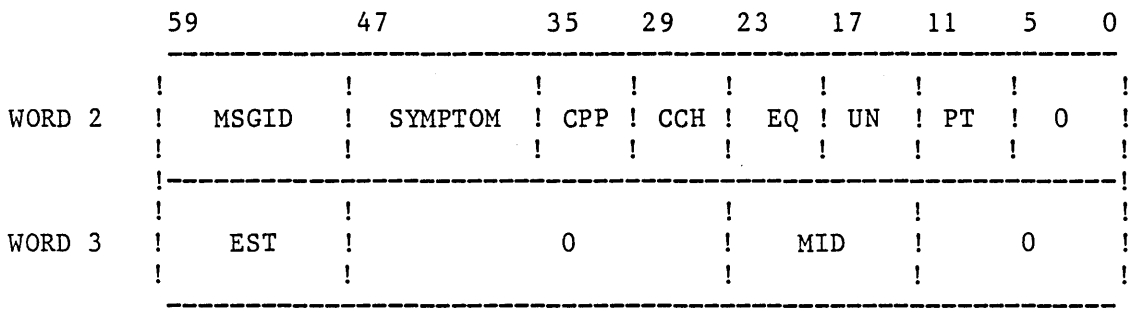
The following message is issued to the BML by 1MP whenever 1HY downs a channel as a result of attempting to recover from an uncorrected error.



Field	Word	Location	Description
MSGID	2	59-48	Message ID. 0120B 887 (4K byte sector) 0121B 887 (16K byte sector)
SYMPTOM	2	47-36	Symptom Code. 0015B Channel downed by system.
CPP	2	35-30	Concurrent PP that reported the error.
CCH	2	29-24	Concurrent channel used to obtain status.
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. 0 Port A 1 Port B
EST	3	59-48	EST ordinal of failing device.
MID	3	23-12	Machine ID.

ROTATING MASS STORAGE	MSGID: 0120B, 0121B
887	SYMPTOM: 0030B

The following message is issued to the BML by 1HY whenever the system turns off equipment as a result of attempting to recover from an uncorrected error.



Field	Word	Location	Description
MSGID	2	59-48	Message ID. 0120B 887 (4K byte sector) 0121B 887 (16K byte sector)
SYMPTOM	2	47-36	Symptom Code. 0030B Equipment turned off.
CPP	2	35-30	Concurrent PP that reported the error.
CCH	2	29-24	Concurrent channel used to obtain status.
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. 0 Port A 1 Port B
EST	3	59-48	EST ordinal of failing device.
MID	3	23-12	Machine ID.

ROTATING MASS STORAGE	MSGID: 0120B, 0121B
887	SYMPTOM: 0100B, 0105B

The following BML message is issued by the 887 driver, 1HY, whenever an error is encountered by the disk. Additional BML messages containing first failure data may follow this BML message. The EST and RTRY field may be used to group the messages.

	59	47	42	35	29	23	17	11	6	0
Word 2	MSGID	SYMPTOM		CPP	CCH	EQ	UN	PT		0
Word 3	EST		RTRY	FLG		0		MID		0
Word 4	INITIAL FAULT	T-REG FAULT		STATUS FAULT		REC FAULT		FINAL FAULT		
Word 5	0	RBC		STC		CYL		TK		SC
Word 6	ES	IDLE		BSR		LSC				
Word 7	LSC	LCF		ERROR		0		OPER		
Word 10	0	F	CONTROL			0				
Word 11	0	TREG								
Word 12	DS0	DS1		DS2		DS3				
Word 13	DS3	DS4		DS5		DS6		SS0		
Word 14	SS0	SS1		SS2		SS3		SS4		
Word 15	SS4	SS5		SS6		SS7				

Field	Word	Location	Description
MSGID	2	59-48	Message ID. 0120B = 887 (4K byte sector) 0121B = 887 (16K byte sector)
SYMPTOM	2	47-36	Symptom Code. 0100B = Driver detected error - recovery in progress. 0105B = Driver detected uncorrected error.
CPP	2	35-30	Concurrent PP that reported the error.
CCH	2	29-24	Concurrent channel used to obtain status. (Channel number is biased by 40B).
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. 0 Port A 1 Port B
EST	3	59-48	EST ordinal of failing device.
RTRY	3	47-42	Number of retries already performed by the 887 driver.
FLG	3	41-36	Flag field.
		(39)	Always clear to indicate last block of message.
		(38)	Always clear to indicate first block of message.
		(37)	Clear if read operation. Set if write operation.
		(36)	Set if unrecovered error. Clear if recovery in progress.
MID	3	23-12	Machine ID.
INITIAL FAULT	4	59-48	Initial driver fault code. This code indicates the condition the driver detected. The initial fault code is based solely on the driver's location when it detected the error. No analysis of first failure data is performed. (Refer to the CYBER Systems Peripheral Diagnostic Reference Manual for a description of the fault codes.)

Field	Word	Location	Description
T-REG FAULT	4	47-36	If zero, the T-REG field contains valid T-Register information. If non-zero, the T-REG field does not contain valid T-Register information. In this situation, the T-REG FAULT field contains the fault code generated when the T-Register could not be read.
STATUS FAULT	4	35-24	If zero, first failure status was successfully retrieved from the disk. The status includes the disk status (function word 80-86), device status (function words 90-92), the disk error register image, and the disk error log. If an error is encountered by the error processor while this information is being obtained, the fault code associated with this failure is placed in the STATUS FAULT field. If the STATUS FAULT field is non-zero, the disk status and device status are not present. The error processor continues processing the initial error that was encountered.
REC FAULT	4	23-12	If zero, no error was encountered while recovering a specific type of disk error (not ready, media, etc.). If negative zero, no specific error recovery is required or performed for the error that was encountered. If non-zero, specific error recovery failed. In this situation, this field contains the fault code associated with the failure.
FINAL FAULT	4	11-0	This is the final fault code the driver associated with the initial failure. It is based on the initial fault code. However, additional analysis of the first failure data was performed to generate the FINAL FAULT.

Field	Word	Location	Description
RBC	5	47-36	Residue byte count associated with incomplete channel transfers. This field contains the number of bytes that were not transferred. This field applies when an Incomplete Data Transfer fault code is reported.
STC	5	35-24	Consecutive sector transfer count since the initial seek. This information is always valid. When used in conjunction with the initial seek parameters, it can be determined where the disk was transferring data to at the time of the failure. This field may be zero if the error was encountered while spinning up or down the drive, or in executing level 1 or level 2 diagnostics.
CYL	5	23-12	Cylinder number of initial seek.
TK	5	11-6	Track number of initial seek.
SC	5	5-0	Sector number of initial seek.
ES	6	59-44	First word of disk status (function word 80) that was last read from the disk.
IDLE	6	43-28	Channel idle status associated with the channel.
BSR	6	27-12	Bit significant response.
LSC	6	11-0	Last command given to the disk before the error was detected.
LSC	7	59-56	Last command given to the disk before the error was detected.
LCF	7	55-40	Last function issued to the channel before error was detected.
ERROR	7	39-24	Error register associated with the channel.

FIELD	WORD	LOCATION	DESCRIPTION
OPER	7	15-0	Operational status register associated with the channel.
F	10	55-52	Channel flags associated with the channel.
		(55)	Active flag
		(54)	Full flag
		(53)	Error flag
		(52)	Channel flag
CONTROL	10	51-36	Control register associated with the channel.
TREG	11	48-0	T-register associated with the channel. This field contains valid data only if the T-REG FAULT field is zero.
DS0	12	59-44	First word of disk status (function word 80).
DS1	12	43-28	Second word of disk status (function word 81).
DS2	12	27-12	Third word of disk status (function word 82).
DS3	12	11-0	Fourth word of disk status (function word 83).
DS3	13	59-56	Fourth word of disk status (function word 83).
DS4	13	55-40	Fifth word of disk status (function word 84).
DS5	13	39-24	Sixth word of disk status (function word 85).
DS6	13	23-8	Seventh word of disk status (function word 86).
SS0	13	7-0	First word of drive status (function word 90).
SS0	14	59-52	First word of drive status (function word 90).
SS1	14	51-36	Second word of drive status (function word 91).
SS2	14	35-20	Third word of drive status (function word 92).

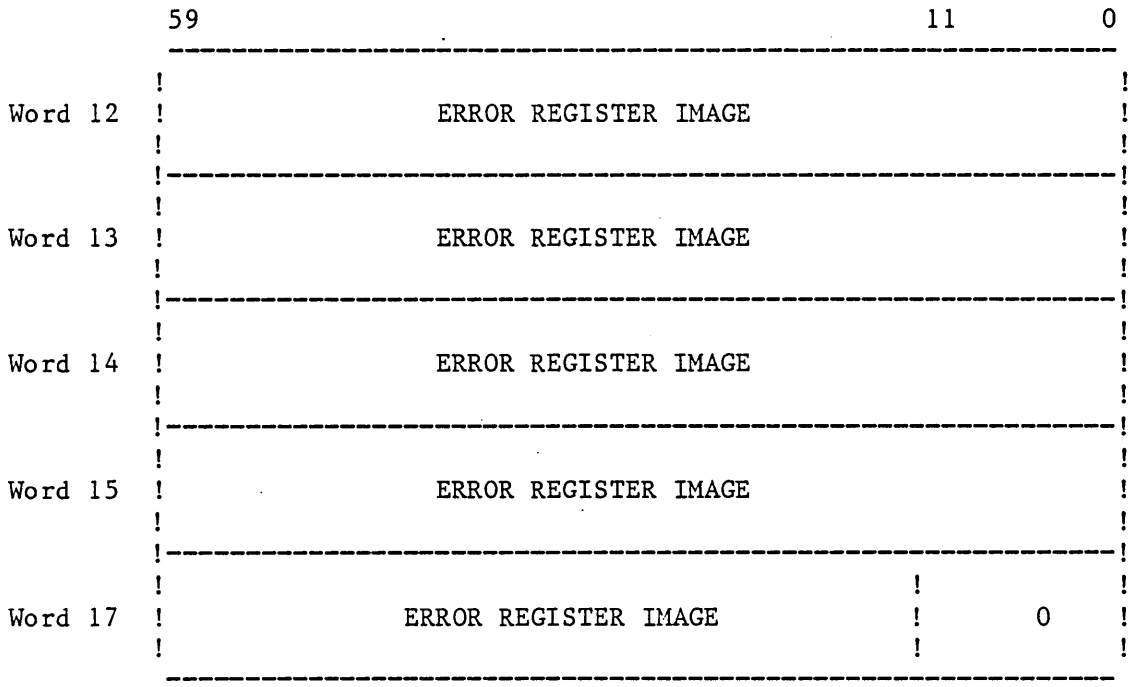
Field	Word	Location	Description
SS3	14	19-4	Fourth word of drive status (function word 93).
SS4	14	3-0	Fifth word of drive status (function word 94).
SS4	15	59-48	Fifth word of drive status (function word 94).
SS5	15	47-32	Sixth word of drive status (function word 95).
SS6	15	31-16	Seventh word of drive status (function word 96).
SS7	15	15-0	Eighth word of drive status (function word 97).

Refer to the CDC Intelligent Hydra Drive Hardware Maintenance manual, Volume 2, for the format of the BSR, IDLE, and LSC fields. Refer to the CYBER 840A, 850A and 860A Computer Systems Hardware Reference manual, Volume 2, for the format of the LCF field.

ROTATING MASS STORAGE	MSGID: 0120B, 0121B
887	SYMPTOM: 0103B

The following BML message is issued by the 887 driver, 1HY, whenever an error is reported by the disk and the error register image is changed since the last time it was logged. The driver assumes the disk is reporting an error when Check End is set and System Intervention Status or Manual Intervention Status is present.

	59 47	41 35	29 23	17 11	5 0
Word 2	MSGID	SYMPTOM	CPP / CCH	EQ / UN	PT / 0
Word 3	EST	RTRY / FLG	0	MID	0
Word 4	ERROR REGISTER IMAGE				
Word 5	ERROR REGISTER IMAGE				
Word 6	ERROR REGISTER IMAGE				
Word 7	ERROR REGISTER IMAGE				
Word 8	ERROR REGISTER IMAGE				
Word 9	ERROR REGISTER IMAGE				
Word 10	ERROR REGISTER IMAGE				
Word 11	ERROR REGISTER IMAGE				



Field	Word	Location	Description
MSGID	2	59-48	Message ID. 0120B 887 (4K byte sector) 0121B 887 (16K byte sector)
SYMPTOM	2	47-36	Symptom Code. 0103B Disk error.
CPP	2	35-30	Concurrent PP that reported the error.
CCH	2	29-24	Concurrent channel used to obtain status.
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. 0 Port A 1 Port B
EST	3	59-48	EST ordinal of failing device.
RTRY	3	47-42	Number of retries already performed by the 887 driver. Each unsuccessful retry results in a BML message.

Field	Word	Location	Description
FLG	3	41-36	Flag field.
		(39)	Always clear to indicate first block of message.
		(38)	Always clear to indicate last block of message.
		(37)	Clear if read operation. Set if write operation.
MID	3	23-12	Machine ID.

Refer to the CDC Intelligent Hydra Drive Hardware Reference Manual for the format of the Error Register Image.

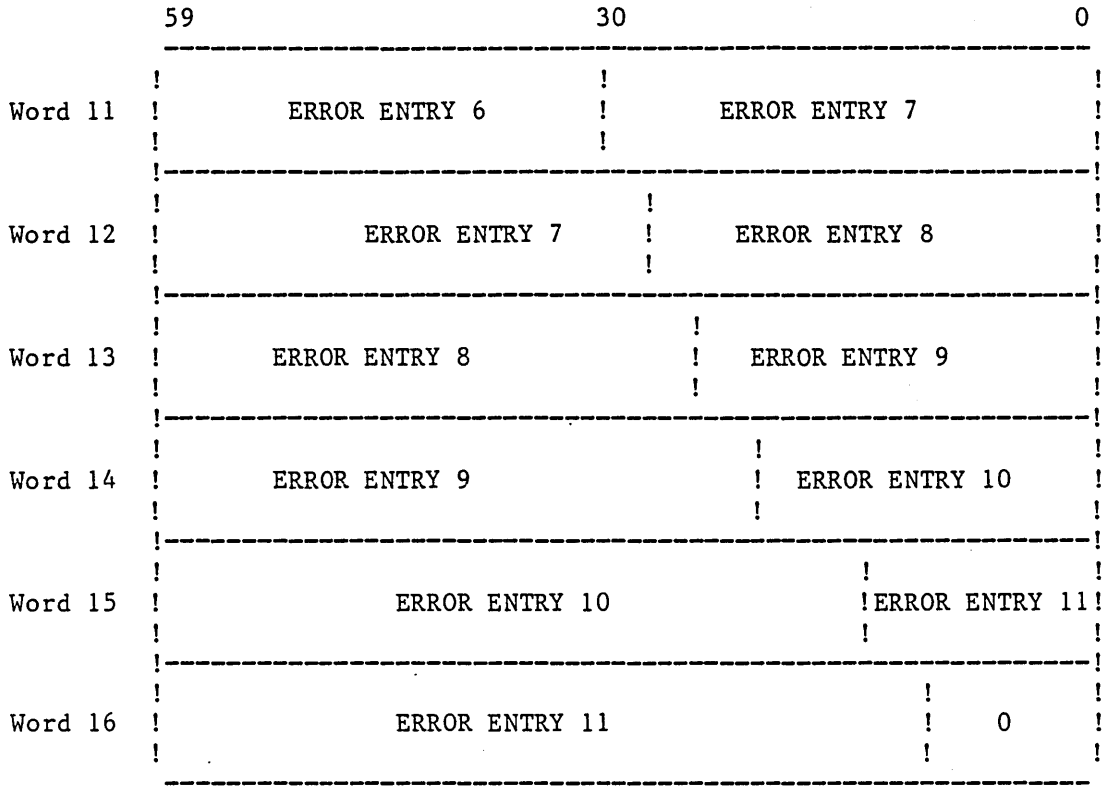
The Error Register may not be valid or be associated with the error reported in the disk Status Block.

ROTATING MASS STORAGE	MSGID: 0120B, 0121B
887	SYMPTOM: 0104B

The following message is issued to the BML by 1HY whenever an unexpected status is returned to 1HY from the disk. The disk error log is not cleared after this message is issued.

The length of this message is dependent on how many error log entries were generated by the disk since the last time this message was issued for the device. Only new entries are logged by 1HY. The most recent disk error log entry is error entry 0.

Word 2	MSGID	SYMPTOM	CPP	CCH	EQ	UN	PT	0
Word 3	EST	0	FLG	0	MID	0		
Word 4	ERROR ENTRY 0							
Word 5		ERROR ENTRY 1						
Word 6	ERROR ENTRY 1	ERROR ENTRY 2						
Word 7	ERROR ENTRY 2	ERROR ENTRY 3						
Word 8	ERROR ENTRY 3	ERROR ENTRY 4						
Word 9	ERROR ENTRY 4	ERROR ENTRY 5						
Word 10	ERROR ENTRY 5	ERROR ENTRY 6						

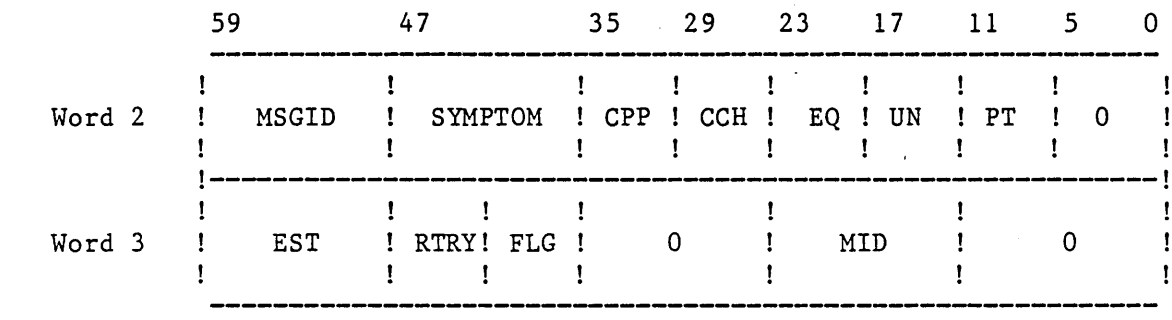


Field	Word	Location	Description
MSGID	2	59-48	Message ID. 0120B 887 (4K byte sector) 0121B 887 (16K byte sector)
SYMPTOM	2	47-36	Symptom Code. 0104B Disk error log.
CPP	2	35-30	Concurrent PP that reported the error.
CCH	2	29-24	Concurrent channel used to obtain status.
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. 0 Port A 1 Port B
EST	3	59-48	EST ordinal of failing device.
FLG	3	41-36 (39) (38)	Flag field. Always clear to indicate first block of message. Always clear to indicate last block of message.
MID	3	23-12	Machine ID.

Refer to the CDC Intelligent Hydra Drive Hardware Maintenance Manual, Volume 2, for the format of the error log entries.

ROTATING MASS STORAGE	MSGID: 0120B, 0121B
887	SYMPTOM: 0105B

The following BML message is issued by the 887 driver, 1HY, whenever the error recovery process completes processing an error. This message indicates an error is recovered.

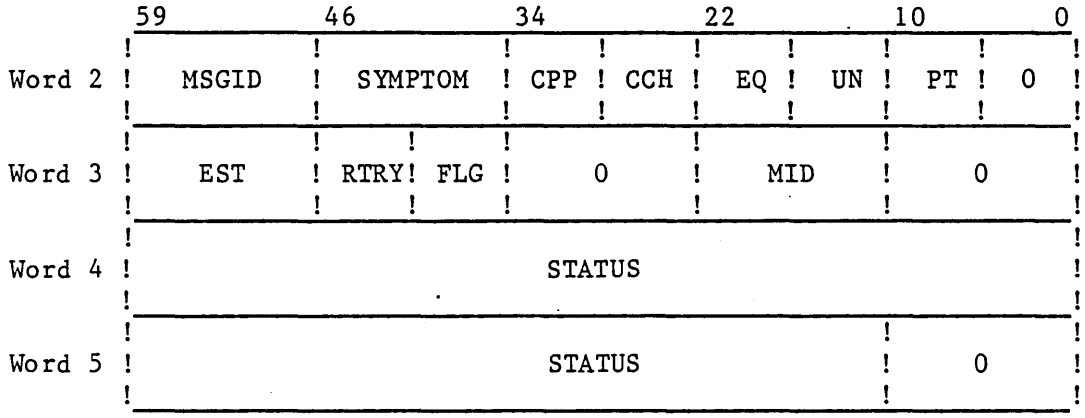


Field	Word	Location	Description
MSGID	2	59-48	Message ID. 0120B 887 (4K byte sector) 0121B 887 (16K byte sector)
SYMPTOM	2	47-36	Symptom Code. 0105B Error processing summary
CPP	2	35-30	Concurrent PP that processed the error last.
CCH	2	29-24	Concurrent channel used to obtain status.
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. 0 Port A 1 Port B

Field	Word	Location	Description
EST	3	59-48	EST ordinal of failing disk.
RTRY	3	47-42	Number of retries already performed by the 887 driver.
FLG	3	41-36	Flag field.
		(39)	Always clear to indicate first block of message.
		(38)	Always clear to indicate last block of message.
		(37)	Clear if read operation. Set if write operation.
		(36)	Clear if recovered error. Set if unrecovered error.
MID	3	23-12	Machine ID.

ROTATING MASS STORAGE	MSGID: 0120B, 0121B
887	SYMPTOM: 0106B, 0107B 0110B, 0111B

The following message is issued by 1HY whenever it completes processing a level I or a level II diagnostic. The results of the diagnostics are found in the disk status logged as part of this message.



Field	Word	Location	Description
MSGID	2	59-48	Message ID. 0120B = 887 (4K format) 0121B = 887 (16K format)
SYMPTOM	2	47-36	Symptom code. 0106B Read diagnostic results. 0107B Write diagnostic results. 0110B Level I diagnostic results. 0111B Level II diagnostic results.
CPP	2	35-30	Concurrent PP that processed the error last.
CCH	2	29-24	Concurrent channel used to obtain status. (Channel number is biased by 40B.)
EQ	2	23-18	Equipment number of disk (always 0).
UN	2	17-12	Unit number of disk.
PT	2	11-6	Concurrent channel port. 0 Port A 1 Port B
EST	3	59-48	EST ordinal of failing disk.

Field	Word	Location	Description
RTRY	3	47-42	Number of retries already performed by the 887 driver.
FLG	3	41-36	Flag field.
		(39)	Always clear to indicate first block of message.
		(38)	Always clear to indicate last block of message.
		(37)	Clear if read operation. Set if write operation.
		(36)	Clear if recovered error. Set if unrecovered error.
MID	3	23-12	Machine ID.
STATUS	4	59-0	Disk status block.
STATUS	5	59-12	Disk status block.

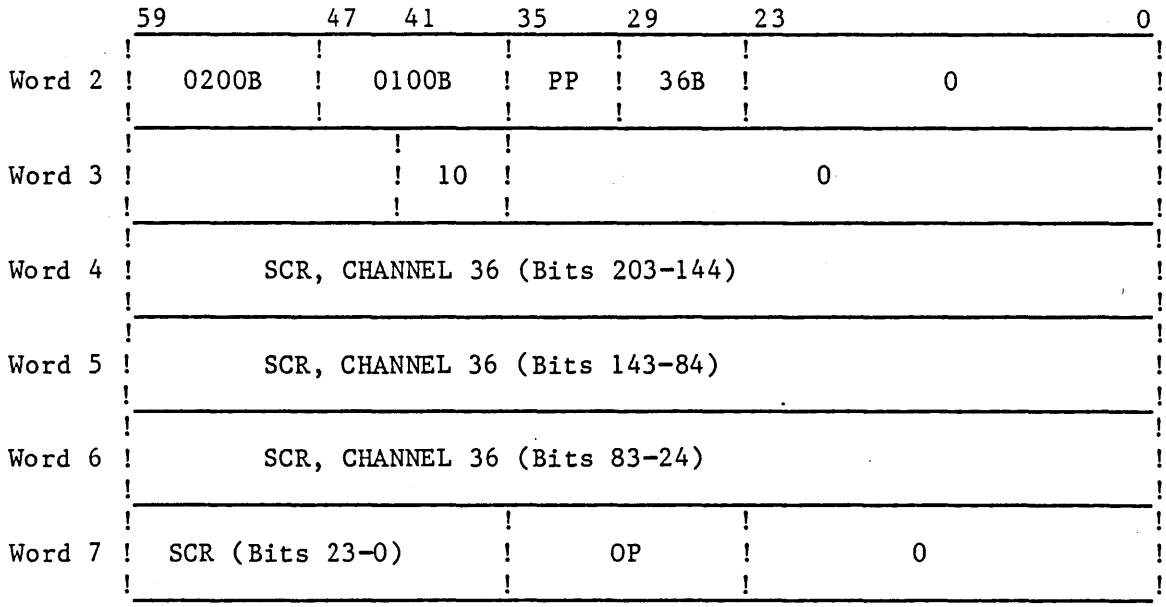
MAINFRAME (170 MODELS)	MSGID 0200B
SECDED SINGLE BIT CORRECTED ERROR	SYMPTOM 0100B

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.

	59 – 47	41 – 35	29 – 23	0
Word 2	0200B	0100B	PP / 16B	0
Word 3	0	04	0	
Word 4	SCR, CHANNEL 16 (Bits 203-144)			
Word 5	SCR, CHANNEL 16 (Bits 143-84)			
Word 6	SCR, CHANNEL 16 (Bits 83-24)			
Word 7	SCR (Bits 23-0)	OP	0	

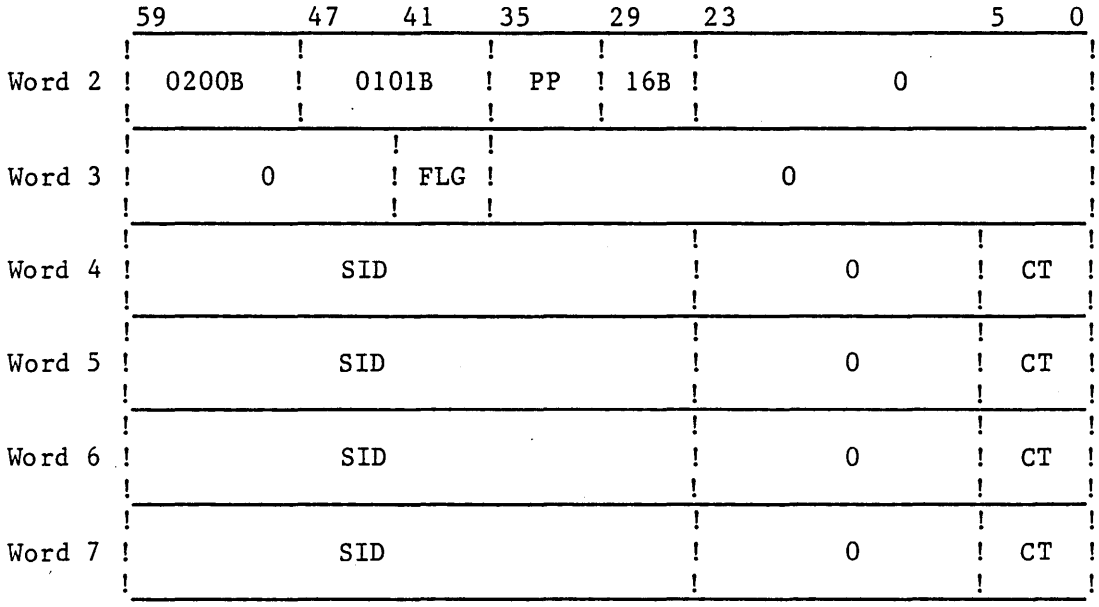
The continuation message has the following form.



Field	Word	Location	Description
PP	2	35-30	PP that detected the error.
OP	7	35-24	Options installed. This field contains byte one of CMR word MABL.

MAINFRAME (170 MODELS)	MSGID 0200B
SECDED SINGLE BIT SUMMARY TABLE	SYMPTOM 0101B

The following message is repeated until all unique SECDED errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

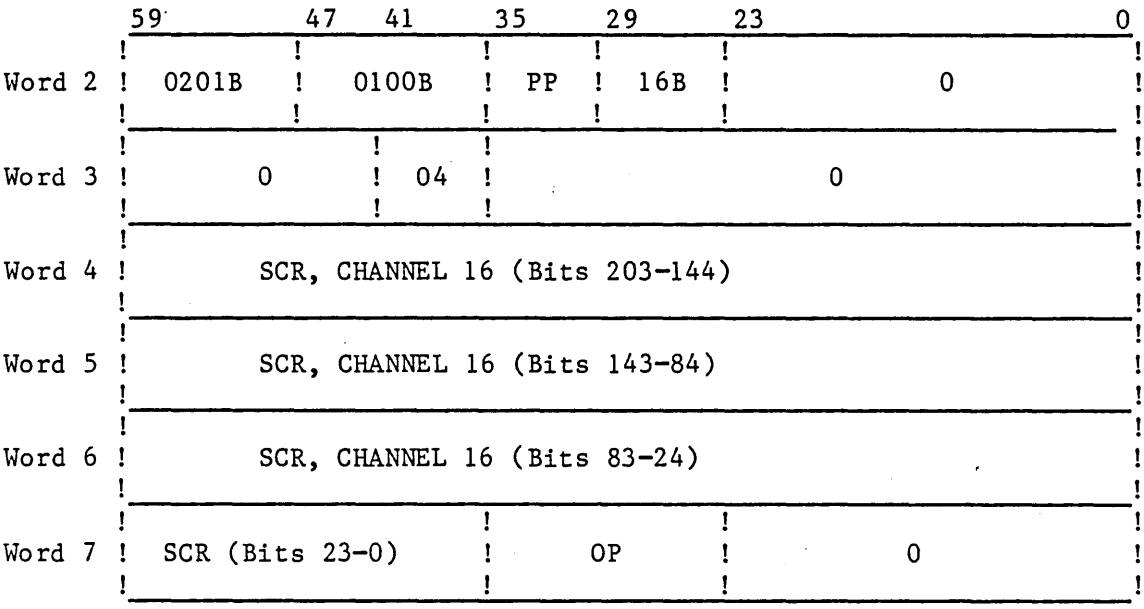


Field	Location	Description
PP	35-30	PP that detected the error.
FLG	41-36	Flag Field.
	(39)	Not first block flag. 0 BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. 0 Final or only message. 1 Another message will follow.
SID	59-24	SECDED identifier.
	(59-58)	SCR bits 191-190.
	(57-44)	SCR bits 53-40.
	(43-24)	Zero (unused).
CT	5-0	Error counter.

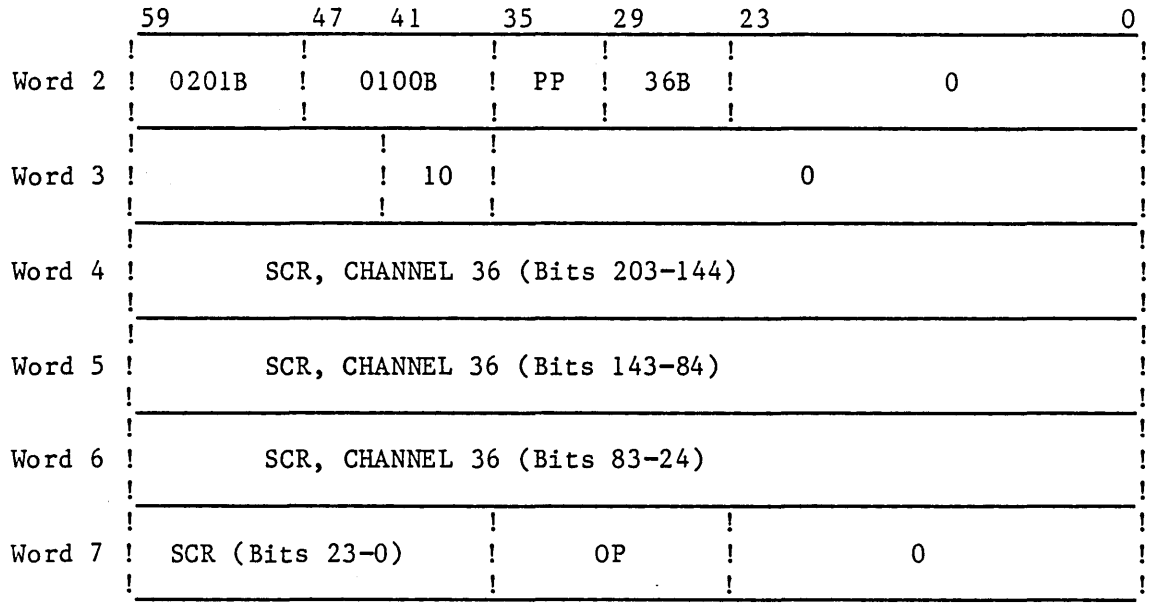
MAINFRAME (MODELS 720, 730, 740, 750, AND 760	MSGID 0201B
SECDED SINGLE BIT CORRECTED ERROR	SYMPTOM 0100B

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.



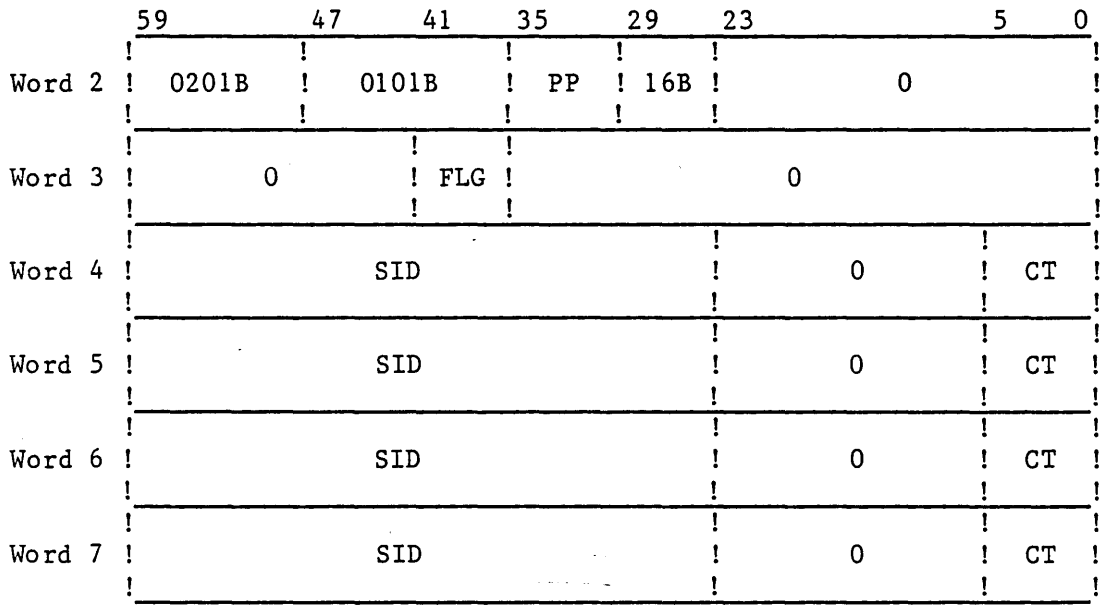
The continuation message has the following form.



Field	Location	Description
PP	35-30	PP that detected the error.
OP	35-24	Options installed. This field contains byte one of CMR word MABL.

MAINFRAME (MODELS 720, 730, 740, 750, AND 760)	MSGID 0201B
SECDED SINGLE BIT SUMMARY TABLE	SYMPTOM 0101B

The following message is repeated until all unique SECDED errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.



Field	Location	Description
PP	35-30	PP that detected the error.
FLG	41-36	Flag field.
	(39)	Not first block flag. 0 BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. 0 Final or only message. 1 Another message will follow.
SID	59-24	SECDED identifier.
	(59-58)	SCR bits 191-190.
	(57-44)	SCR bits 53-40.
	(43-24)	Zero (unused).
CT	5-0	Error counter.

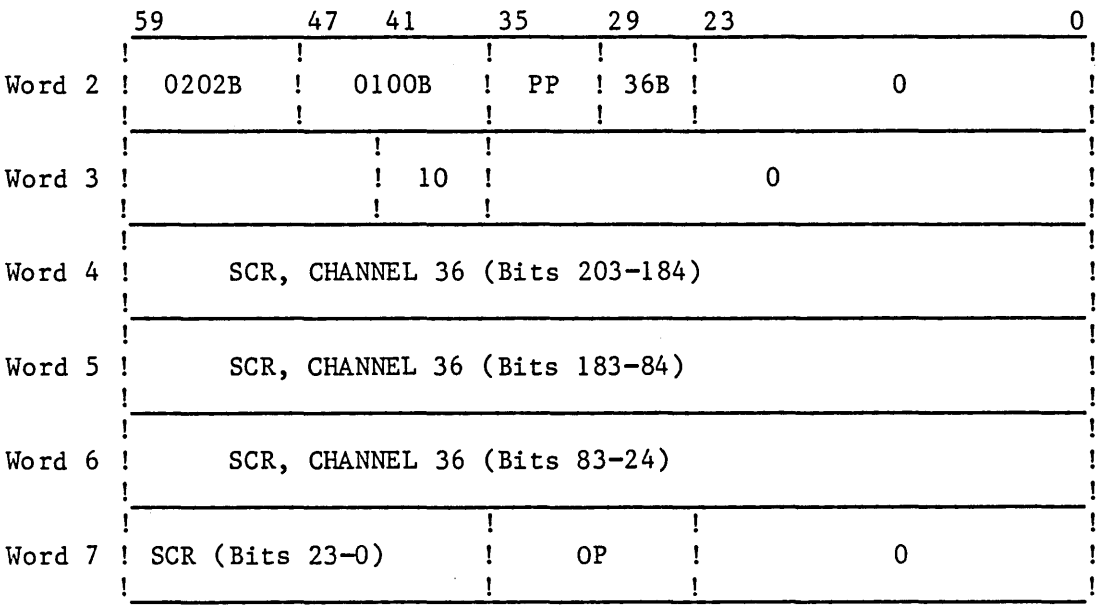
MAINFRAME (MODEL 176A)	MSGID 0202B
SECDED SINGLE BIT CORRECTED ERROR	SYMPTOM 0100B

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.

	59	47	41	35	29	23	0
Word 2	0202B	0100B		PP	16B	0	
Word 3	0		04	0			
Word 4	SCR, CHANNEL 16 (Bits 203-144)						
Word 5	SCR, CHANNEL 16 (Bits 143-84)						
Word 6	SCR, CHANNEL 16 (Bits 83-24)						
Word 7	SCR (Bits 23-0)			OP		0	

The continuation message has the following form.



Field	Location	Description
PP	35-30	PP that detected the error.
OP	35-24	Options installed. This field contains byte one of CMR word MABL.

MAINFRAME (MODEL 176A)	MSGID 0202B
SECDED SINGLE BIT SUMMARY TABLE	SYMPTOM 0101B

The following message is repeated until all unique SECDED errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59–47	41–35	29–23	5–0
Word 2	0202B	0101B	PP / 16B	0
Word 3	0	FLG	0	
Word 4	SID		0	CT
Word 5	SID		0	CT
Word 6	SID		0	CT
Word 7	SID		0	CT

Field	Location	Description
PP	35–30	PP that detected the error.
FLG	41–36	Flag field.
	(39)	Not first block flag. 0 BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. 0 Final or only message. 1 Another message will follow.
SID	59–24	SECDED identifier.
	(59–48)	SCR bits 167–156.
	(47–34)	SCR bits 53–40.
	(33–24)	Zeros (unused).
CT	5–0	Error counter.

MAINFRAME (MODEL 176A)	MSGID 0202B
LCME SINGLE BIT SUMMARY TABLE	SYMPTOM 0104B

The following message is repeated until all LCME errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59 47	41 35	29 23	5 0
Word 2	0202B	0104B	PP 16B	0
Word 3	0	FLG	0	
Word 4	SID		0	CT
Word 5	SID		0	CT
Word 6	SID		0	CT
Word 7	SID		0	CT

Field	Location	Description
PP	35-30	PP that detected the error.
FLG	41-36	Flag field.
	(39)	Not first block flag. 0 BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. 0 Final or only message. 1 Another message will follow.

Field	Location	Description
SID	59-23	LCME ID.
	(59-52)	SCR bits 151-144.
	(51-50)	SCR bits 117-116.
	(49-44)	SCR bits 101-96.
	(43-24)	Zero (unused).
CT	5-0	Error counter.

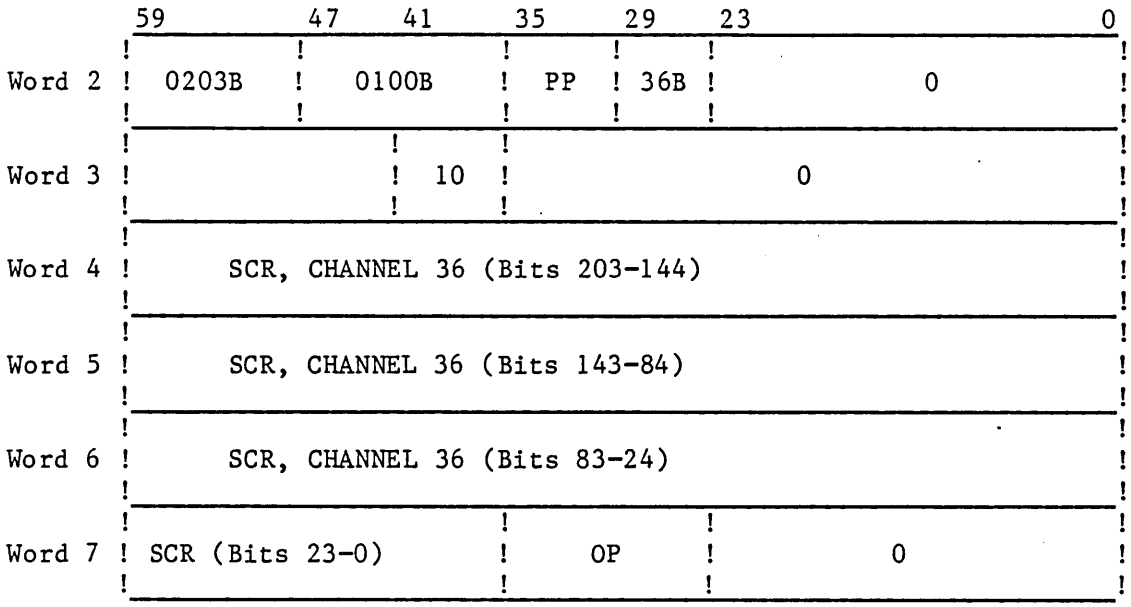
MAINFRAME (MODEL 176B)	MSGID 0203B
LCME SINGLE BIT CORRECTED ERROR	SYMPTOM 0100B

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.

	59	47	41	35	29	23	0
Word 2	0203B	0100B		PP	16B	0	
Word 3	0		04	0			
Word 4	SCR, CHANNEL 16 (Bits 203-144)						
Word 5	SCR, CHANNEL 16 (Bits 143-84)						
Word 6	SCR, CHANNEL 16 (Bits 83-24)						
Word 7	SCR (Bits 23-0)			OP		0	

The continuation message has the following form.



Field	Location	Description
PP	35-30	PP that detected the error.
OP	35-24	Options installed. This field contains byte one of CMR word MABL.

MAINFRAME (MODEL 176B)	MSGID 0203B
SECDED SINGLE BIT SUMMARY TABLE	SYMPTOM 0101B

The following message is repeated until all SECDED single bit errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59–47	41–35	29–23	5–0
Word 2	0203B	0101B	PP / 16B	0
Word 3	0	FLG	0	
Word 4	SID		0	CT
Word 5	SID		0	CT
Word 6	SID		0	CT
Word 7	SID		0	CT

Field	Location	Description
PP	35-30	PP that detected the error.
FLG	41-36	Flag field.
	(39)	Not first block flag. 0 BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. 0 Final or only message. 1 Another message will follow.
SID	59-24	SECDED identifier.
	(59-48)	SCR bits 167-156.
	(47-34)	SCR bits 53-40.
	(33-24)	Zeros (unused).
CT	5-0	Error counter.

MAINFRAME (MODEL 176B)	MSGID 0203B
LCME SINGLE BIT SUMMARY TABLE	SYMPTOM 0104B

The following message is repeated until all LCME errors that were logged are reported to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59–47	41–35	29–23	5–0
Word 2	0203B	0104B	PP 16B	0
Word 3	0	FLG	0	
Word 4	SID		0	CT
Word 5	SID		0	CT
Word 6	SID		0	CT
Word 7	SID		0	CT

Field	Location	Description
PP	35-30	PP that detected the error.
FLG	41-36	Flag field.
	(39)	Not first block flag. 0 BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. 0 Final or only message. 1 Another message will follow.
SID	59-24	LCME identifier.
	(59-48)	SCR bits 151-144.
	(47-34)	SCR bits 117-116.
	(49-44)	SCR bits 101-96.
	(33-24)	Zeros (unused).
CT	5-0	Error counter.

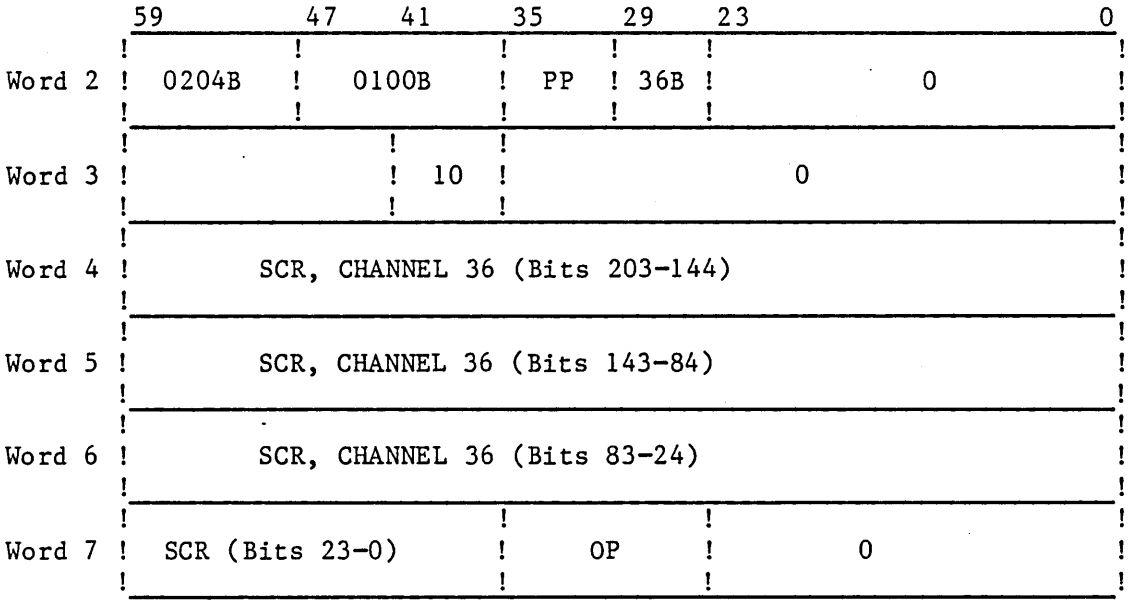
MAINFRAME (MODEL 865)	MSGID 0204B
SECDED SINGLE BIT CORRECTED ERROR	SYMPTOM 0100B

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.

	59 – 47	41 – 35	29 – 23	0
Word 2	0204B	0100B	PP / 16B	0
Word 3	0	04	0	
Word 4	SCR, CHANNEL 16 (Bits 203-144)			
Word 5	SCR, CHANNEL 16 (Bits 143-84)			
Word 6	SCR, CHANNEL 16 (Bits 83-24)			
Word 7	SCR (Bits 23-0)	OP	0	

The continuation message has the following form.



Field	Location	Description
PP	35-30	PP that detected the error.
OP	35-24	Options installed. This field contains byte one of CMR word MABL.

MAINFRAME (MODEL 865)	MSGID 0204B
SECDED SINGLE BIT SUMMARY STATUS	SYMPTOM 0101B

The following message is repeated until all unique SECDED errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.

	59–47	41–35	29–23	5–0
Word 2	0204B	0101B	PP, 16B	0
Word 3	0	FLG	0	
Word 4	SID		0	CT
Word 5	SID		0	CT
Word 6	SID		0	CT
Word 7	SID		0	CT

Field	Location	Description
PP	35-30	PP that detected the error.
FLG	41-36	Flag field.
	(39)	Not first block flag. 0 BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. 0 Final or only message. 1 Another message will follow.
SID	59-24	SECDED identifier.
	(59-58)	SCR bits 191-190.
	(57-44)	SCR bits 53-40.
	(43-24)	Zero (unused).
CT	5-0	Error counter.

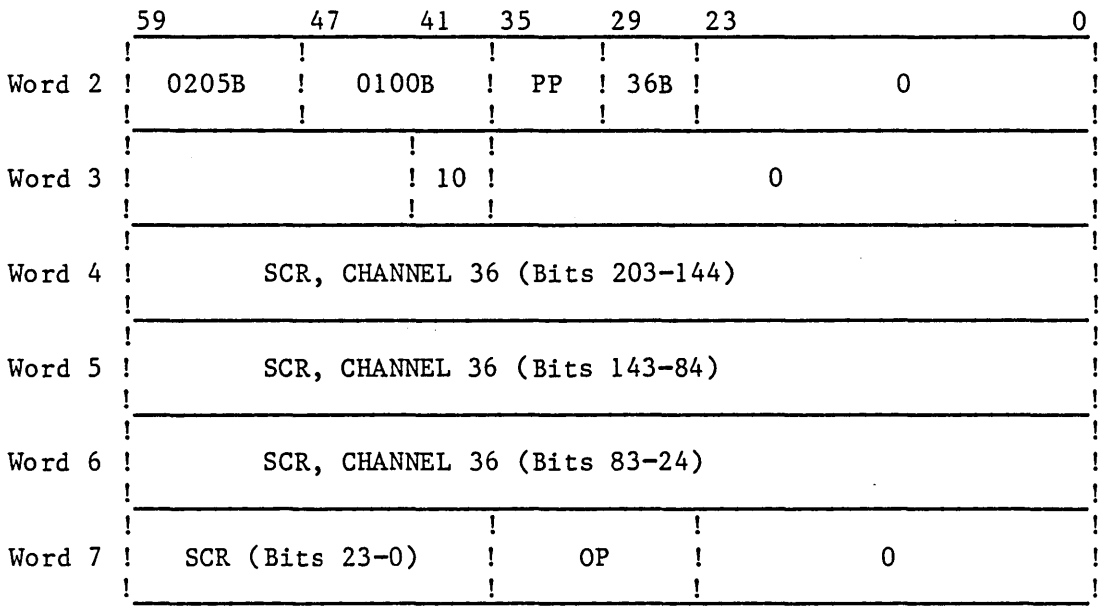
MAINFRAME (MODEL 875)	MSGID 0205B
SECDED SINGLE BIT CORRECTED ERROR	SYMPTOM 0100B

These messages are issued for the first occurrence of each unique single bit SECDED error. If channel 36 is not present, only the first message is issued.

The first message has the following form.

	59 47	41 35	29 23	0
Word 2	0205B	0100B	PP 16B	0
Word 3	0	04	0	
Word 4	SCR, CHANNEL 16 (Bits 203-144)			
Word 5	SCR, CHANNEL 16 (Bits 143-84)			
Word 6	SCR, CHANNEL 16 (Bits 83-24)			
Word 7	SCR (Bits 23-0)	OP	0	

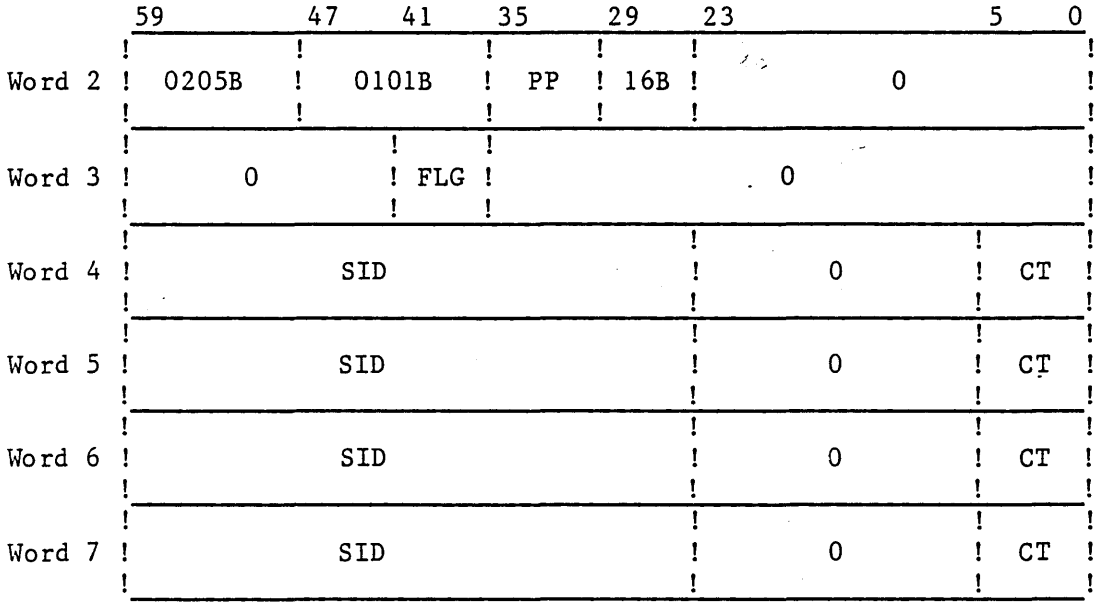
The continuation message has the following form.



Field	Location	Description
PP	35-30	PP that detected the error.
OP	35-24	Options installed. This field contains byte one of CMR word MABL.

MAINFRAME (MODEL 875)	MSGID 0205B
SECDED SINGLE BIT SUMMARY STATUS	SYMPTOM 0101B

The following message is repeated until all unique SECDED errors that were logged have been issued to the BML. The continuation flag in word 3 is set to zero for the last message in the sequence.



Field	Location	Description
PP	35-30	PP that detected the error.
FLG	41-36	Flag field.
	(39)	Not first block flag. 0 BML message is the first block of a message. 1 BML message is not the first block of a message.
	(38)	Continuation block flag. 0 Final or only message. 1 Another message will follow.
SID	59-24	SECDED identifier.
	(59-58)	SCR bits 191-190.
	(57-44)	SCR bits 53-40.
	(43-24)	Zero (unused).
CT	5-0	Error counter.

CHANNEL STATUS	MSGID 0206B
UP/DOWN STATUS	SYMPTOM 0014B, 0015B, 0016B, 0017B

	59–48	47–36	35–30	29–24	23–12	11–1	0
Word 2	0206B	SYMPTOM	PP	CH	0		
Word 3	0				MID	0	

Field	Word	Location	Description
SYMPTOM	2	47–36	Symptom code. 0014B Channel downed by operator. 0015B Channel downed by system. 0016B Channel upped by operator. 0017B Channel upped by system.
PP	2	35–30	PP that detected the error.
CH	2	29–24	Channel upped or downed.
MID	3	23–12	Machine identifier.

EXTENDED MEMORY	MSGID 0211B, 0173B
SECDED	SYMPTOM 0100B

The first message is as follows.

	59 47	41 35	29 23	11 0
Word 2	MSGID	0100B	PP CH	0
Word 3	EST	0 04	0	
Word 4	A1		A2	A3
Word 5	A4	A5	A6	A7 A8
Word 6	A9	A10	A11	A12 A13
Word 7	A13	A15	A16	A17 A18

The continuation message is as follows.

	59 47	41 35	29 23	11 0
Word 2	MSGID	0100B	PP CH	0
Word 3	EST	0 14	0	
Word 4	B1	B2	B3	B4 B5
Word 5	B6	B7	B8	B9 B10
Word 6	B11	B12	B13	B14 B15
Word 7	B16	B17	B18	B19 B20

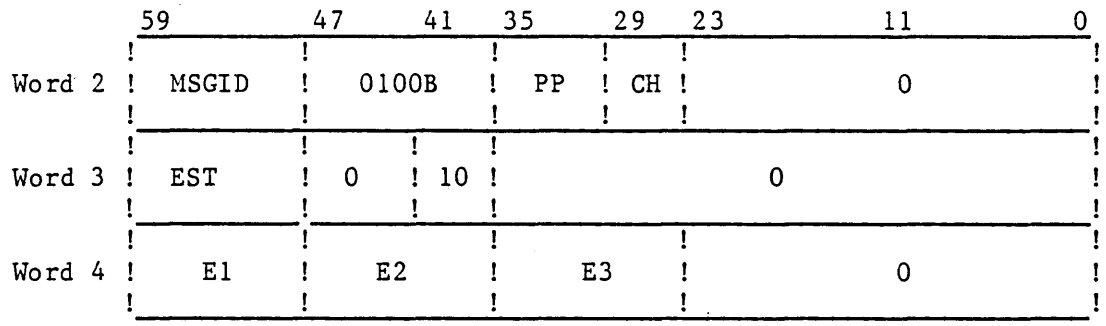
The continuation message is as follows.

	59	47	41	35	29	23	11	0
Word 2	MSGID	0100B		PP	CH	0		
Word 3	EST	0	14	0				
Word 4	C1	C2		C3		C4	C5	
Word 5	C6	C7		C8		C9	C10	
Word 6	C11	C12		C13		C14	C15	
Word 7	C16	C17		C18		C19	C20	

The continuation message is as follows.

	59	47	41	35	29	23	11	0
Word 2	MSGID	0100B		PP	CH	0		
Word 3	EST	0	14	0				
Word 4	D1	D2		D3		D4	D5	
Word 5	D6	D7		D8		D9	D10	
Word 6	D11	D12		D13		D14	D15	
Word 7	D16	D17		D18		D14	D20	

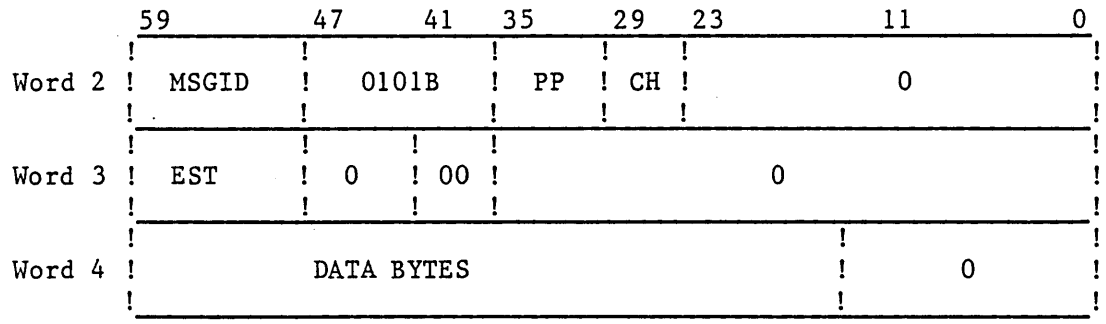
The continuation message is as follows.



Field	Location	Description
MSGID	59-48	Message ID. 0173B=STORNET. 0211B=ESM.
EST	59-48	EST ordinal of device being logged.
A1	59-24	Programmable single bit error counter.
A2	23-12	Double bit error 1 (valid bit, address bits 23-13).
A3	11-0	Double bit error 1 (address bits 12-4, 2-0).
A4	59-48	Double bit error 2 (valid bit, address bits 23-13).
A5	47-36	Double bit error 2 (address bits 12-4, 2-0).
.	.	.
.	.	.
.	.	.
A18	11-0	Double bit error 9 (valid bit, address bits 23-13).
B1	59-48	Double bit error 9 (address bits 12-4, 2-0).
B2	47-36	Double bit error 10 (valid bit, address bits 23-13).
B3	35-24	Double bit error 10 (address bits 12-4, 2-0).
.	.	.
.	.	.
.	.	.
B14	23-12	Double bit error 16 (valid bit, address bits 23-13).
B15	11-0	Double bit error 16 (address bits 12-4, 2-0).
B16	59-48	Single bit error 1 (syndrome bits, address bit 23).
B17	47-36	Single bit error 1 (address bits 22-17, 2-0).
.	.	.
.	.	.
.	.	.

Field	Location	Description (Continued)
B20	11-0	Single bit error 3 (syndrome bits, address bit 23).
C1	59-48	Single bit error 3 (address bits 22-17, 2-0).
	•	
	•	
	•	
C20	11-0	Single bit error 13 (syndrome bits, address bit 23).
D1	59-48	Single bit error 13 (address bits 22-17, 2-0).
	•	
	•	
	•	
D7	47-36	Single bit error 16 (address bits 22-17, 2-0).
D8	35-24	Single bit error 1 (counter bits).
	•	
	•	
	•	
D20	11-0	Single bit error 13 (counter bits).
E1	59-48	Single bit error 14 (counter bits).
E2	47-36	Single bit error 15 (counter bits).
E3	35-24	Single bit error 16 (counter bits).

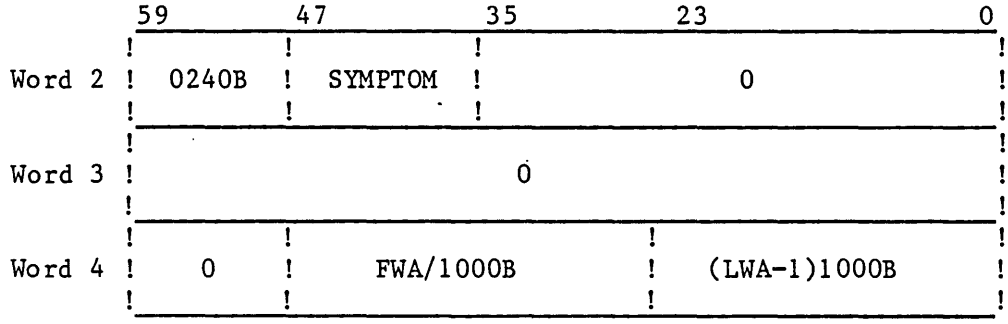
EXTENDED MEMORY	MSGID 0173B, 0211B
MAINTENANCE PORT STATUS	SYMPTOM 0101B



Field	Location	Description
MSGID	59-48	Message ID. 0173B=STORNET. 0211B=ESM.
PP	35-30	PP that detected the error.
CH	29-24	Maintenance Port channel.
EST	59-48	EST ordinal of device being logged.
DATA BYTES	59-12	Error status of device.

DUAL STATE	MSGID 0240B
CM ASSIGNED, CM RETURNED	SYMPTOM 0110B, 0111B

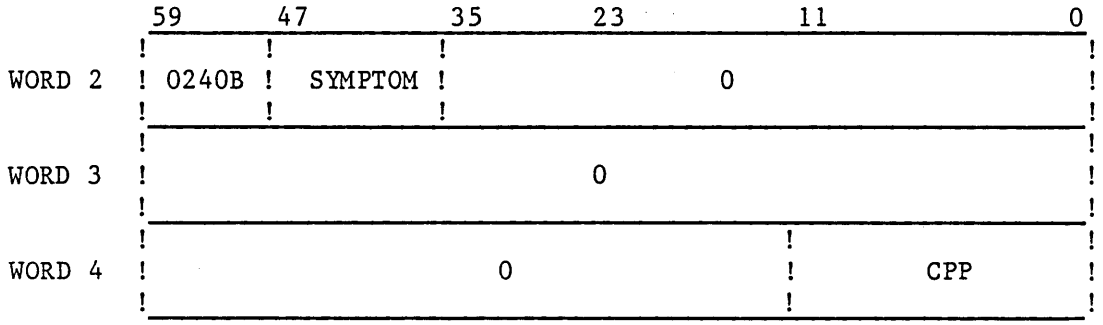
This message is issued wherever central memory (CM) is assigned to NOS/VE or returned to NOS.



Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0110B CM assigned to NOS/VE. 0111B CM returned to NOS.
FWA	4	47-24	First word address of NOS/VE. CM after operation is complete.
LWA	4	23-0	Last word address of NOS/VE. CM after operation is complete.

DUAL STATE	MSGID 0240B
CONCURRENT PP STATUS	SYMPTOM 0114B, 0115B, 0122B

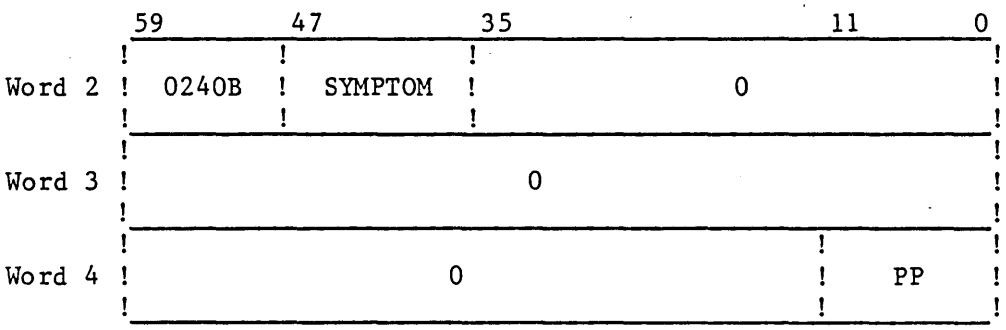
These messages are issued whenever a concurrent PP (CPP) is assigned to NOS/VE or returned to NOS.



FIELD	WORD	LOCATION	DESCRIPTION
SYMPTOM	2	47-36	Symptom code. 0114B CPP assigned to NOS/VE. 0115B CPP returned to NOS. 0122B Idle CPP error. This BML message can be issued when a NOS CPP is being idled. It is not issued when a NOS/VE CPP is idled since that is done by NOS/VE.
CPP	4	11-0	Logical CPP number to which message applies (0-11B).

DUAL STATE	MSGID 0240B
PP STATUS	SYMPTOM 0112B, 0113B, 0120B, 0121B

These messages are issued whenever a PP is assigned to NOS/VE or returned to NOS.



Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0112B PP assigned to NOS/VE. 0113B PP returned to NOS. 0120B Deadstart PP error. 0121B Idle PP error.
PP	4	11-0	Logical PP number to which the message applies.

MAINFRAME (180 CLASS MODELS)	MSGID 0250B
IOU ERRORS	SYMPTOM 0001B,0002B

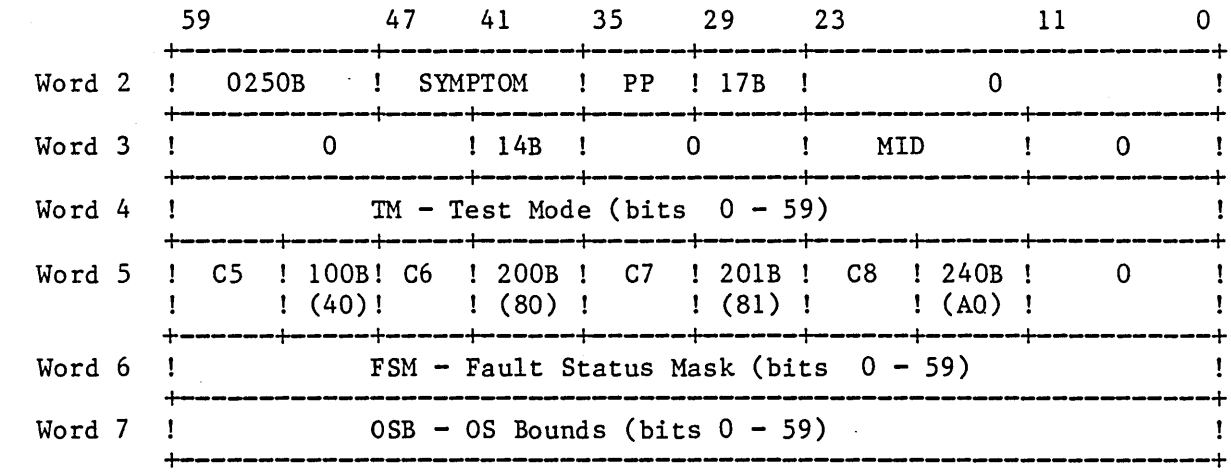
The first message has the following form.

	59	47	41	35	29	23	11	0
Word 2	0250B	SYMPTOM		PP	17B	0		
Word 3	0		04B	0		MID	0	
Word 4	EID - Element Identifier (bits 0 - 59)							
Word 5	SS - Status Summary (bits 0 - 59)							
Word 6	OI - Options Installed (bits 0 - 59)							
Word 7	DEC - Dependent Environment Control (bits 0 - 59)							

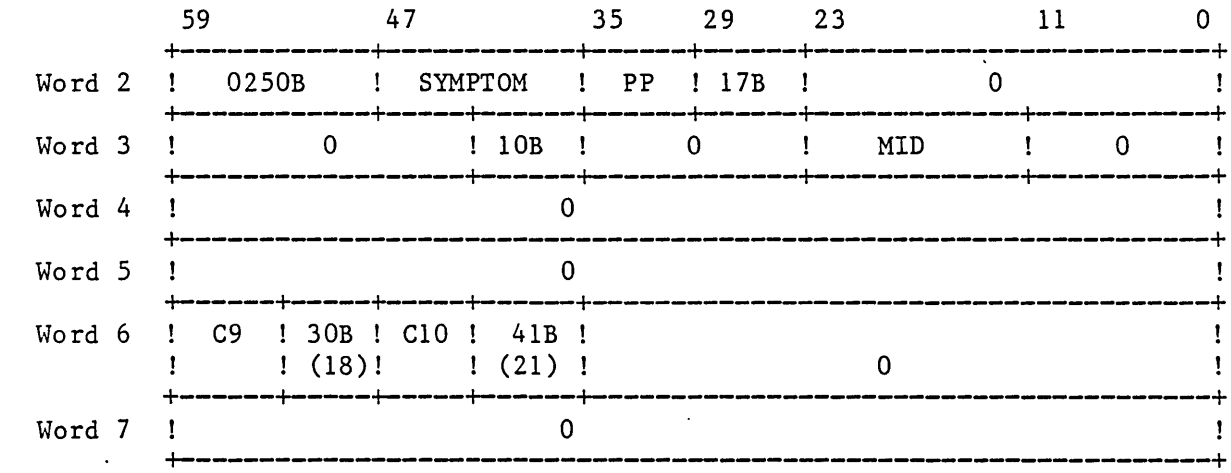
Continuation message 1.

	59	47	41	35	29	23	11	0
Word 2	0250B	SYMPTOM		PP	17B	0		
Word 3	0		14B	0		MID	0	
Word 4	C1	20B (10)	C2	00B (00)	C3	22B (12)	C4	60B (30)	0
Word 5	SR - Status Register (bits 0 - 59)							
Word 6	FS1 - Fault Status Register 1 (bits 0 - 59)							
Word 7	FS2 - Fault Status Register 2 (bits 0 - 59)							

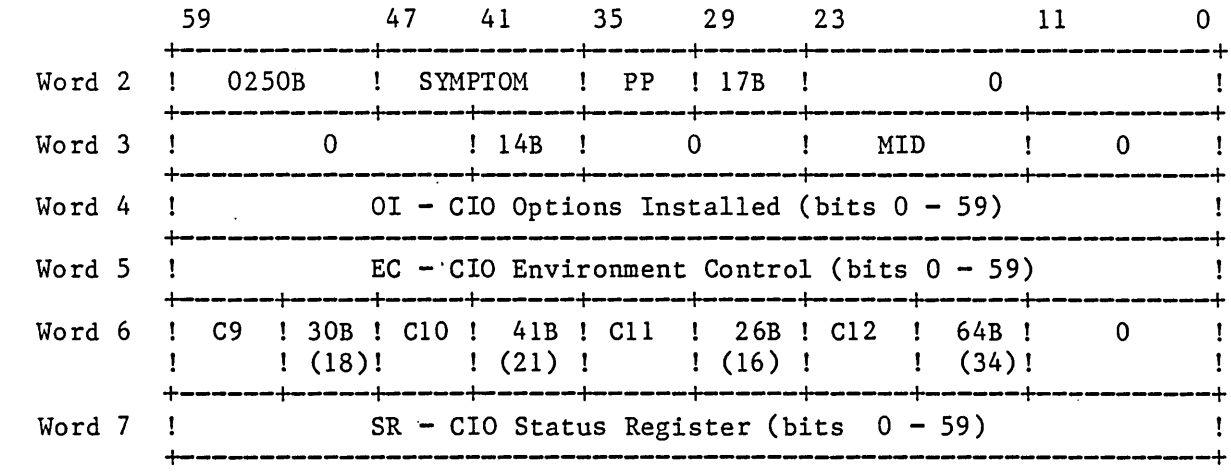
Continuation message 2.



Continuation message 3. This is the last message if the CIO subsystem is not installed.



Continuation message 3, if the CIO subsystem is installed.



Continuation message 4, if the CIO subsystem is installed.

	59	47	41	35	29	23	11	0
Word 2	0250B	SYMPTOM	PP	17B	0			
Word 3	0	14B	0	MID	0			
Word 4	FS1 - CIO Fault Status 1 (bits 0 - 59)							
Word 5	FS2 - CIO Fault Status 2 (bits 0 - 59)							
Word 6	TM - CIO Test Mode (bits 0 - 59)							
Word 7	C13	104B (44)	C14	204B (84)	C15	205B (85)	C16	244B (A4)	0

Continuation message 5, if the CIO subsystem is installed.

	59	47	41	35	29	23	11	0
Word 2	0250B	SYMPTOM	PP	17B	0			
Word 3	0	14B	0	MID	0			
Word 4	FSM - CIO Fault Status Mask (bits 0 - 59)							
Word 5	OSB - CIO OS Bounds (bits 0 - 59)							
Word 6	CS0 - Channel 0 Status (bits 0 - 59)							
Word 7	CS1 - Channel 1 Status (bits 0 - 59)							

Continuation message 6, if the CIO subsystem is installed.

	59	47	41	35	29	23	11	0
Word 2	0250B	SYMPTOM	PP	17B	0			
Word 3	0	14B	0	MID	0			
Word 4	C17	34B (1C)	C18	45B (25)	C19	260B (B0)	C20	261B (B1)	0
Word 5	CS2 - Channel Status 2 (bits 0 - 59)							
Word 6	CS3 - Channel Status 3 (bits 0 - 59)							
Word 7	CS4 - Channel Status 4 (bits 0 - 59)							

Continuation message 7. This is the last message if a 5-PP CIO subsystem is installed.

	59	47	41	35	29	23	11	0
Word 2	0250B	SYMPTOM	PP	17B	0			
Word 3	0		10B	0	MID		0	
Word 4	0							
Word 5	C21 / 262B (B2)	C22 / 263B (B3)	C23 / 264B (B4)	0				
Word 6	0							
Word 7	0							

Continuation message 7, if a 10-PP CIO subsystem is installed.

	59	47	41	35	29	23	11	0
Word 2	0250B	SYMPTOM	PP	17B	0			
Word 3	0		14B	0	MID		0	
Word 4	CS5 - CIO Channel 5 Status (bits 0 - 59)							
Word 5	C21 / 262B (B2)	C22 / 263B (B3)	C23 / 264B (B4)	C24 / 265B (B5)	0			
Word 6	CS6 - CIO Channel 6 Status (bits 0 - 59)							
Word 7	CS7 - CIO Channel 7 Status (bits 0 - 59)							

Continuation message 8. This is the last message if a 10-PP CIO subsystem is installed.

	59	47	41	35	29	23	11	0
Word 2	0250B	SYMPTOM	PP	17B	0			
Word 3	0		10B	0	MID		0	
Word 4	CS8 - CIO Channel 10B Status (bits 0 - 59)							
Word 5	CS9 - CIO Channel 11B Status (bits 0 - 59)							
Word 6	C25 / 266B (B6)	C26 / 267B (B7)	C27 / 270B (B8)	C28 / 271B (B9)	0			
Word 7	0							

Field	Location	Description
SYMPTOM	47-36	Symptom code. 0001B Deadstart error log IOU error. 0002B Express deadstart dump IOU error.
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Status register (bits 60 - 63).
C6	47-44	Fault status 1 (bits 60 - 63).
C7	35-32	Fault status 2 (bits 60 - 63).
C8	23-20	Test mode (bits 60 - 63).
C9	59-56	Fault status mask (bits 60 - 63).
C10	47-44	OS bounds (bits 60 - 63).
C11	35-32	CIO options installed (bits 60 -63).
C12	23-20	CIO environment control (bits 60 - 63).
C13	59-56	CIO status register (bits 60 - 63).
C14	47-44	CIO fault status 1 (bits 60 - 63).
C15	35-32	CIO fault status 2 (bits 60 - 63).
C16	23-20	CIO test mode (bits 60 - 63).
C17	59-56	CIO fault status mask (bits 60 - 63).
C18	47-44	CIO OS bounds (bits 60 - 63).
C19	35-32	CIO channel 0 status (bits 60 - 63).
C20	23-20	CIO channel 1 status (bits 60 - 63).
C21	59-56	CIO channel 2 status (bits 60 - 63).
C22	47-44	CIO channel 3 status (bits 60 - 63).
C23	35-32	CIO channel 4 status (bits 60 - 63).
C24	23-20	CIO channel 5 status (bits 60 - 63).
C25	59-56	CIO channel 6 status (bits 60 - 63).
C26	47-44	CIO channel 7 status (bits 60 - 63).
C27	35-32	CIO channel 10B status (bits 60 - 63).
C28	23-20	CIO channel 11B status (bits 60 - 63).

MAINFRAME (180 CLASS MODELS)	MSGID 0250B
IOU ERRORS	SYMPTOM 0003B, 0004B, 0005B, 0006B, 0007B, 0010B, 0011B, 0012B, 0013B

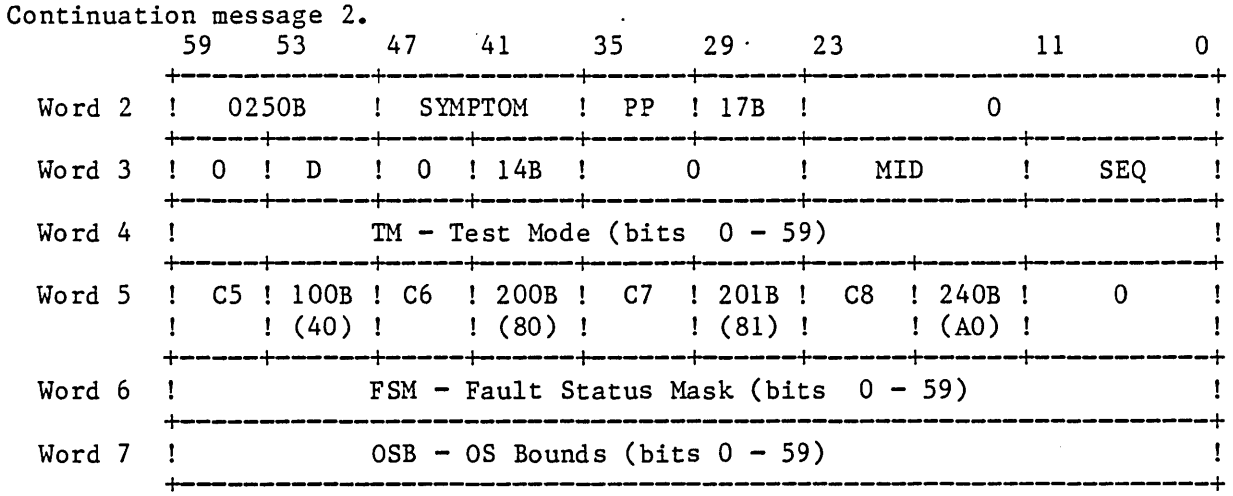
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	EID - Element Identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	DEC - Dependent Environment Control (bits 0 - 59)				

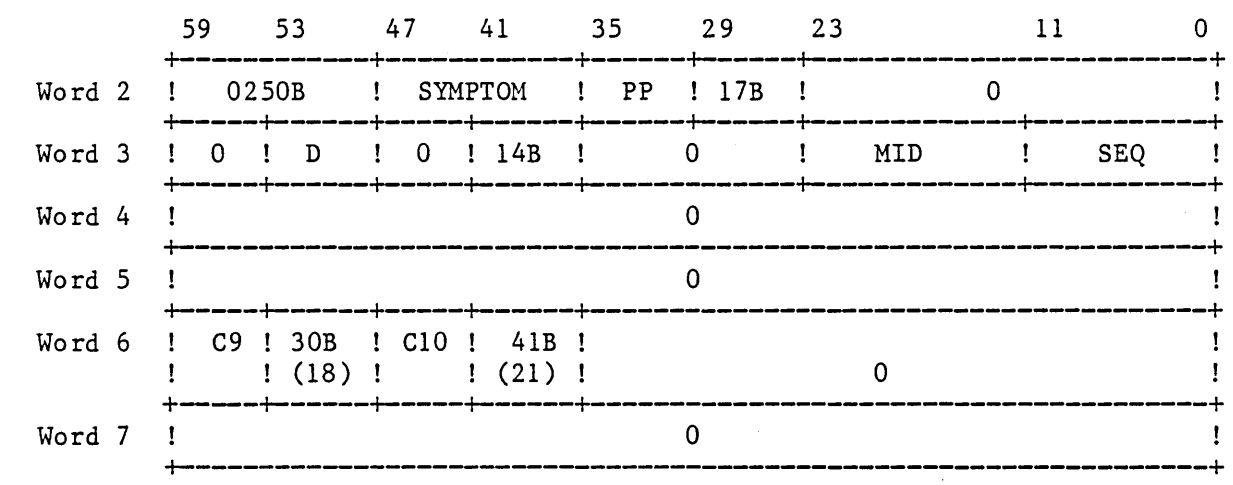
Continuation message 1.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	C1	20B (10)	C2	00B (00)	C3	22B (12)	C4	60B (30)	0
Word 5	SR - Status Register (bits 0 - 59)				
Word 6	FS1 - Fault Status Register 1 (bits 0 - 59)				
Word 7	FS2 - Fault Status Register 2 (bits 0 - 59)				

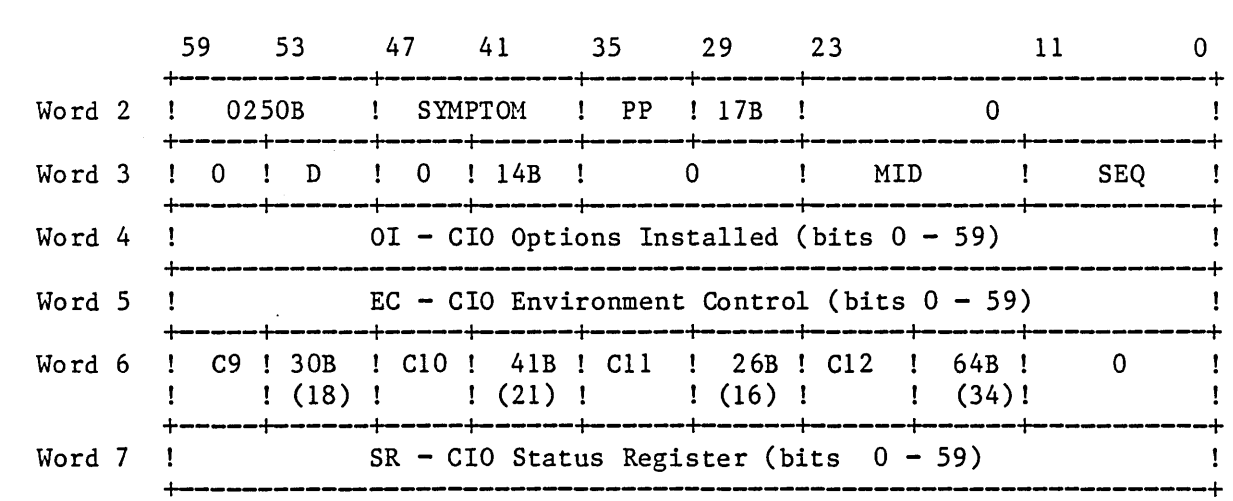
Continuation message 2.



Continuation message 3. This is the last message if the CIO subsystem is not installed.



Continuation message 3, if the CIO subsystem is installed.



Continuation message 4, if the CIO subsystem is installed.

	59	53	47	41	35	29	23	11	0
Word 2	0250B		SYMPTOM		PP	17B	0		
Word 3	0	D	0	14B	0		MID	SEQ	
Word 4	FS1 - CIO Fault Status 1 (bits 0 - 59)								
Word 5	FS2 - CIO Fault Status 2 (bits 0 - 59)								
Word 6	TM - CIO Test Mode (bits 0 - 59)								
Word 7	C13	104B (44)	C14	204B (84)	C15	205B (85)	C16	244B (A4)	0

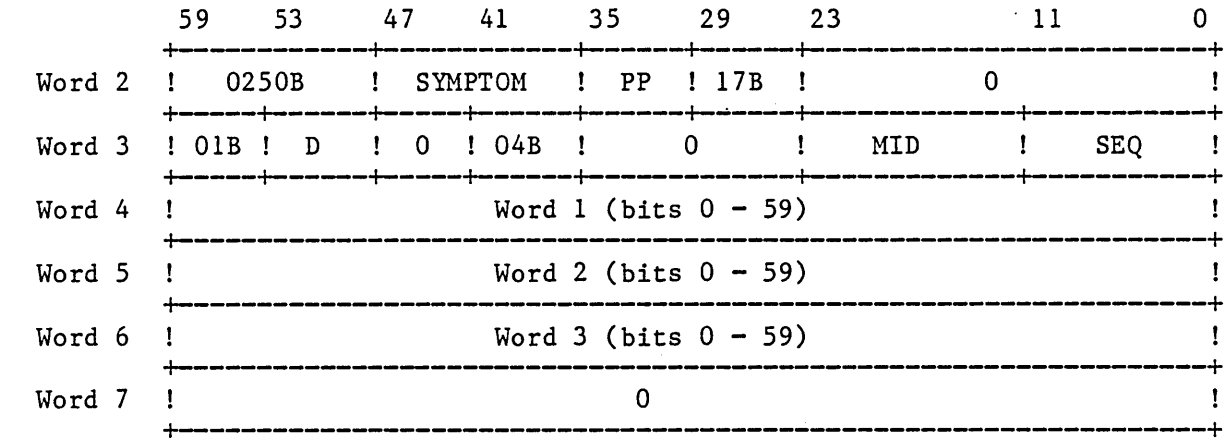
Continuation message 5, if the CIO subsystem is installed.

	59	53	47	41	35	29	23	11	0
Word 2	0250B		SYMPTOM		PP	17B	0		
Word 3	0	D	0	14B	0		MID	SEQ	
Word 4	FSM - CIO Fault Status Mask (bits 0 - 59)								
Word 5	OSB - CIO OS Bounds (bits 0 - 59)								
Word 6	0								
Word 7	0								

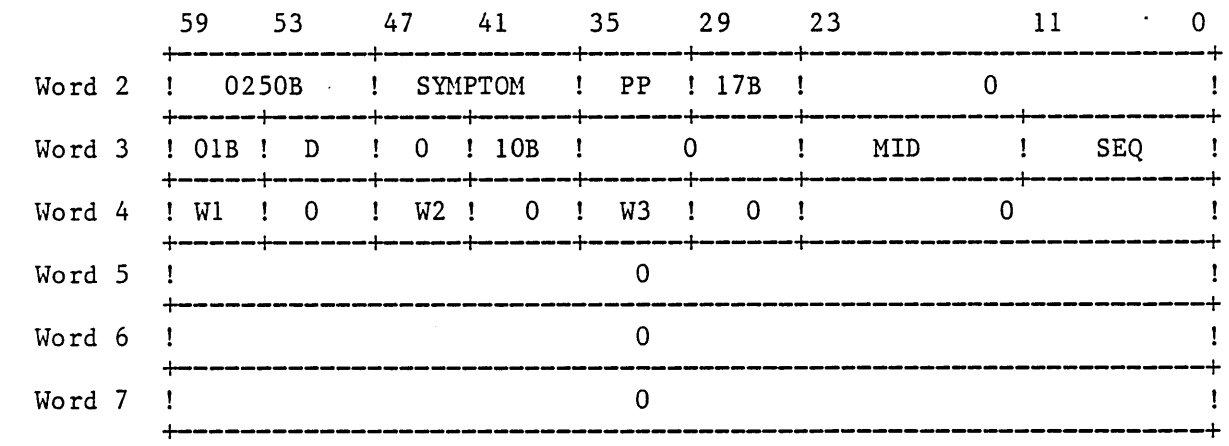
Continuation message 6, if the CIO subsystem is installed.

	59	53	47	41	35	29	23	11	0
Word 2	0250B		SYMPTOM		PP	17B	0		
Word 3	0	D	0	14B	0		MID	SEQ	
Word 4	C17	34B (1C)	C18	45B (25)	0				
Word 5	0								
Word 6	0								
Word 7	0								

Continuation message 7. For DFT revision levels greater than 3, these messages are always present, regardless of whether a CIO subsystem is installed They are not issued for DFT level 3.



Continuation message 8.



Field	Location	Description
SYMPTOM	47-36	Symptom code. 0003B Corrected IOU error (I4 only). 0004B Uncorrected IOU error (PP halt). 0005B 12/16 IOU conversion error. 0006B Fatal IOU error. 0007B Channel error. 0010B Fatal IOU error (CIO PP). 0011B Uncorrected IOU error (CIO PP halt). 0012B 12/16 IOU conversion error (CIO PP). 0013B Uncorrected channel error (CIO PP).
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 - 63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Status register (bits 60 - 63).
C6	47-44	Fault status 1 (bits 60 - 63).
C7	35-32	Fault status 2 (bits 60 - 63).
C8	23-20	Test mode (bits 60 - 63).
C9	59-56	Fault status mask (bits 60 - 63).
C10	47-44	OS bounds (bits 60 - 63).
C11	35-32	CIO options installed (bits 60 -63).
C12	23-20	CIO environment control (bits 60 - 63).
C13	59-56	CIO status register (bits 60 - 63).
C14	47-44	CIO fault status 1 (bits 60 - 63).
C15	35-32	CIO fault status 2 (bits 60 - 63).
C16	23-20	CIO test mode (bits 60 - 63).
C17	59-56	CIO fault status mask (bits 60 - 63).
C18	47-44	CIO OS bounds (bits 60 - 63).
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (180 CLASS EXCEPT 990)	MSGID 0250B
MEMORY ERROR	SYMPTOM 0401B, 0402B

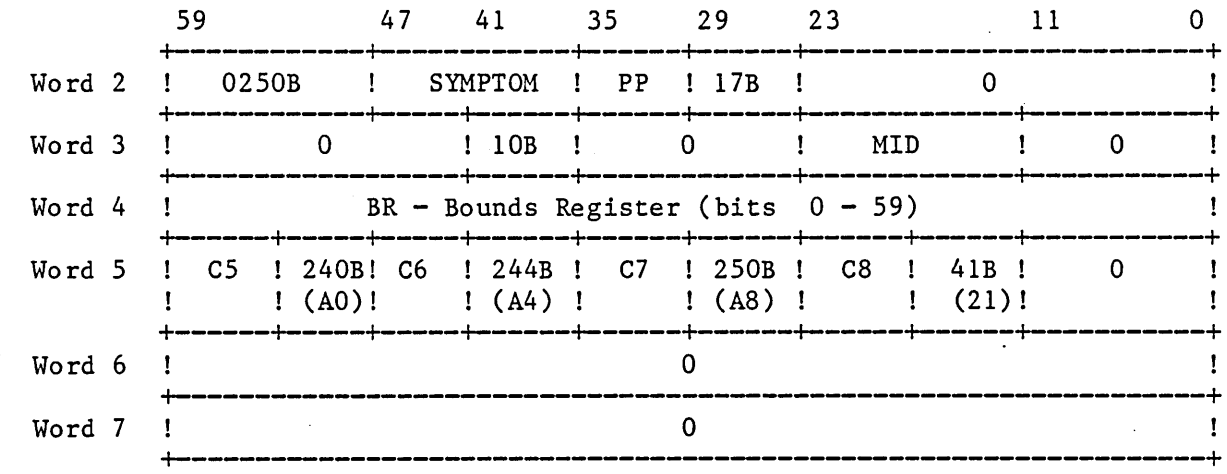
The first message has the following form.

	59 - 47	41 - 35	29 - 23	11 - 0
Word 2	0250B	SYMPTOM	PP / 17B	0
Word 3	0	04B	0 / MID	0
Word 4	EID - Element Identifier (bits 0 - 59)			
Word 5	SS - Status Summary (bits 0 - 59)			
Word 6	OI - Options Installed (bits 0 - 59)			
Word 7	EC - Environment Control (bits 0 - 59)			

Continuation message 1.

	59 - 47	41 - 35	29 - 23	11 - 0
Word 2	0250B	SYMPTOM	PP / 17B	0
Word 3	0	14B	0 / MID	0
Word 4	C1 / 20B (10)	C2 / 00B (00)	C3 / 22B (12)	C4 / 40B (20) / 0
Word 5	CEL - Corrected Error Log (bits 0 - 59)			
Word 6	UEL1 - Uncorrectable Error Log 1 (bits 0 - 59)			
Word 7	UEL2 - Uncorrectable Error Log 2 (bits 0 - 59)			

Continuation message 2.



Field	Location	Description
SYMPTOM	47-36	Symptom code. 0401B Deadstart error log memory error. 0402B Express deadstart dump memory error.
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Environment control (bits 60 - 63).
C5	59-56	Corrected error log (bits 60 - 63).
C6	47-44	Uncorrectable error log 1 (bits 60 - 63).
C7	35-32	Uncorrectable error log 2 (bits 60 - 63).
C8	23-20	Bounds register (bits 60 - 63).

MAINFRAME (MODEL 990)	MSGID 0250B
MEMORY ERROR	SYMPTOM 0401B, 0402B

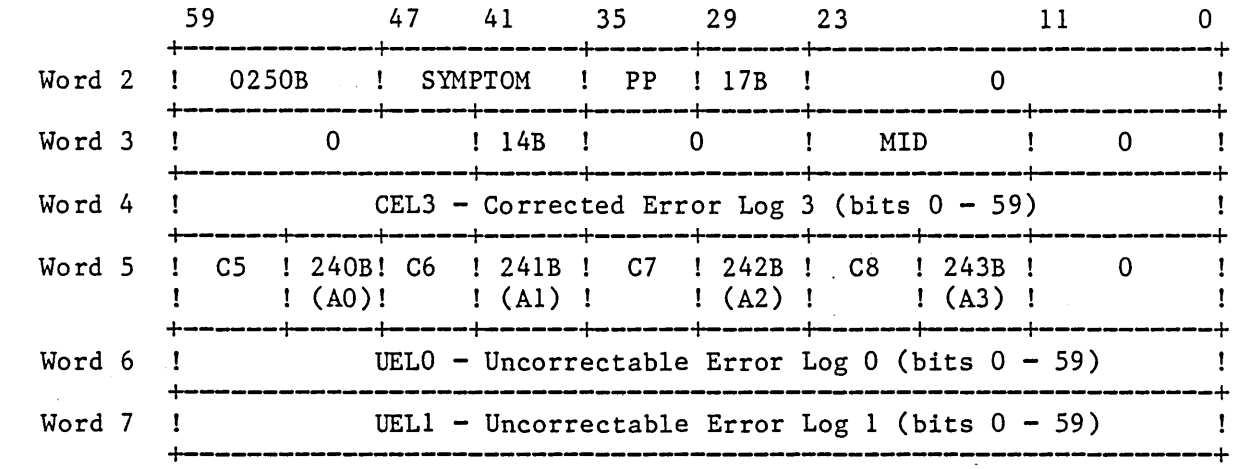
The first message has the following form.

	59 – 47	41 – 35	29 – 23	11 – 0
Word 2	0250B	SYMPTOM	PP / 17B	0
Word 3	0	04B	0 / MID	0
Word 4	EID - Element Identifier (bits 0 - 59)			
Word 5	SS - Status Summary (bits 0 - 59)			
Word 6	OI - Options Installed (bits 0 - 59)			
Word 7	EC - Environment Control (bits 0 - 59)			

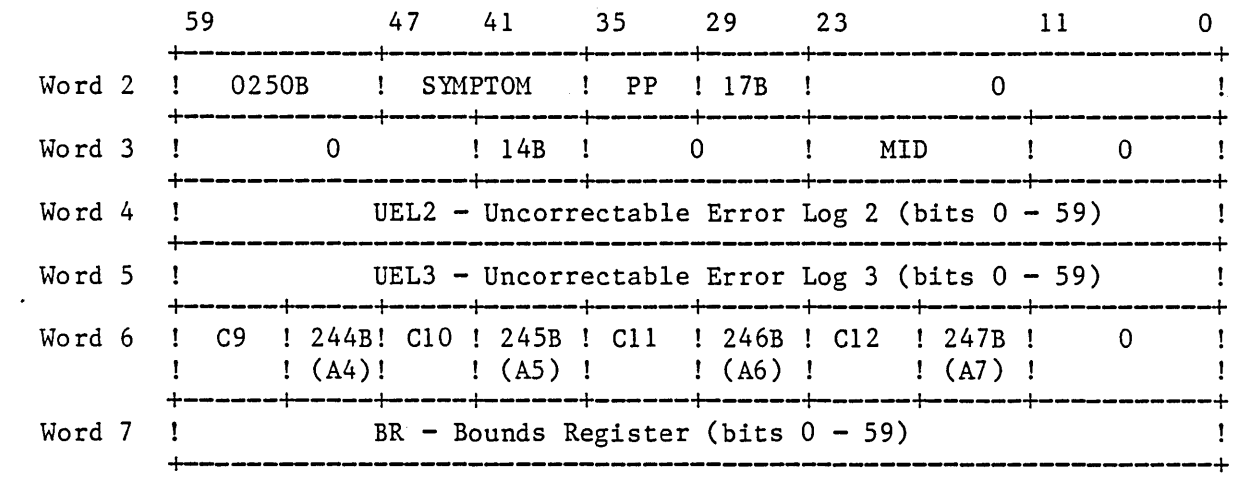
Continuation message 1.

	59 – 47	41 – 35	29 – 23	11 – 0
Word 2	0250B	SYMPTOM	PP / 17B	0
Word 3	0	14B	0 / MID	0
Word 4	C1 / 20B (10)	C2 / 00B (00)	C3 / 22B (12)	C4 / 40B (20) / 0
Word 5	CEL0 - Corrected Error Log 0 (bits 0 - 59)			
Word 6	CEL1 - Corrected Error Log 1 (bits 0 - 59)			
Word 7	CEL2 - Corrected Error Log 2 (bits 0 - 59)			

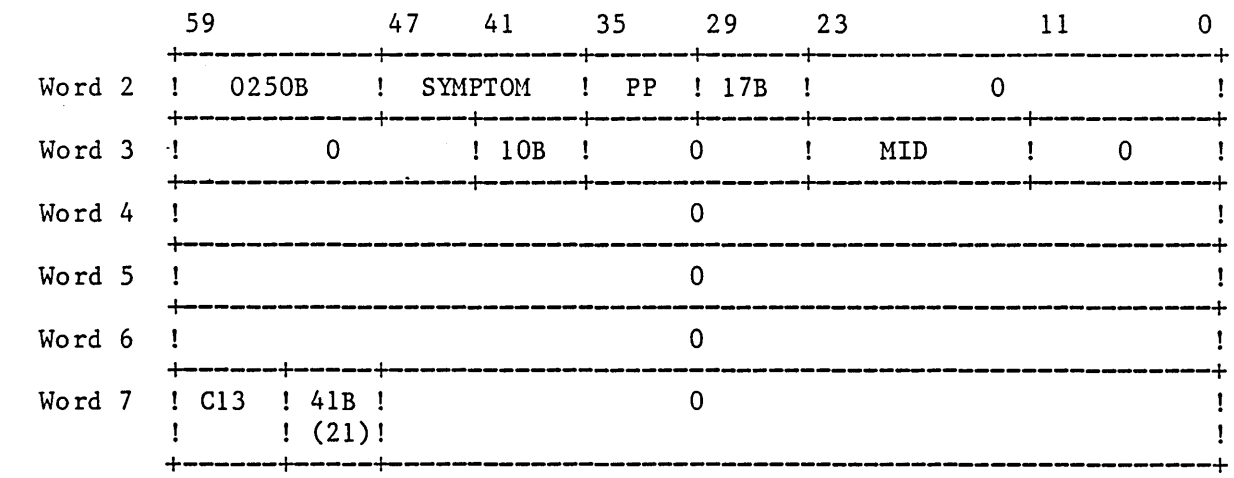
Continuation message 2.



Continuation message 3.



Continuation message 4.



Field	Location	Description
SYMPTOM	47-36	Symptom code. 0401B Deadstart error log memory error. 0402B Express deadstart dump memory error.
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Environment control (bits 60 - 63).
C5	59-56	Corrected error log 0 (bits 60 - 63).
C6	47-44	Corrected error log 1 (bits 60 - 63).
C7	35-32	Corrected error log 2 (bits 60 - 63).
C8	23-20	Corrected error log 3 (bits 60 - 63).
C9	59-56	Uncorrectable error log 0 (bits 60 - 63).
C10	47-44	Uncorrectable error log 1 (bits 60 - 63).
C11	35-32	Uncorrectable error log 2 (bits 60 - 63).
C12	23-20	Uncorrectable error log 3 (bits 60 - 63).
C13	59-56	Bounds register (bits 60 - 63).

MAINFRAME (180 CLASS EXCEPT 990)	MSGID 0250B
MEMORY ERROR	SYMPTOM 0403B, 0404B, 0405B

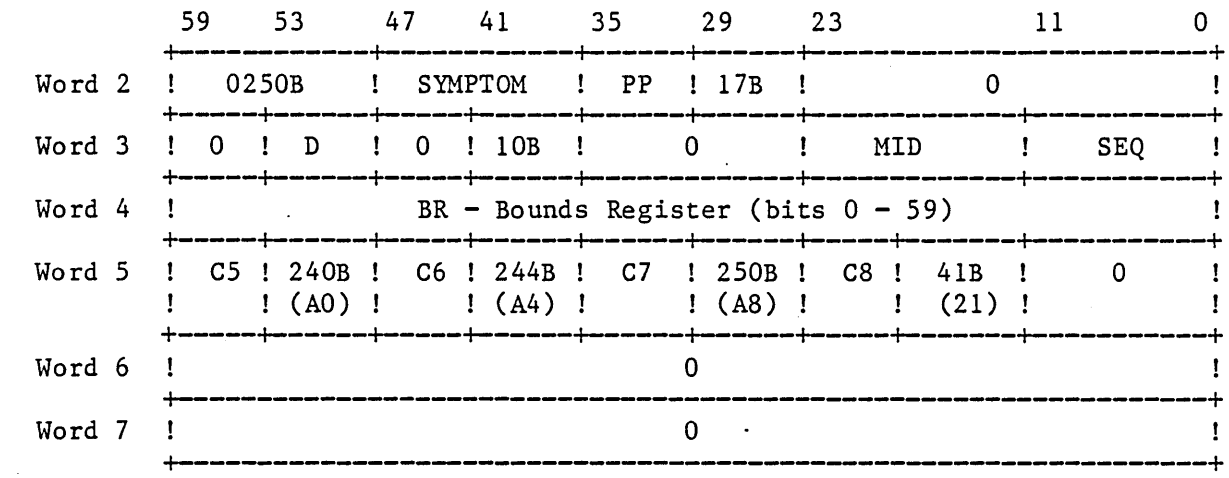
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0 / D	0	04B	0	MID / SEQ
Word 4	EID - Element Identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	EC - Environment Control (bits 0 - 59)				

Continuation message 1.

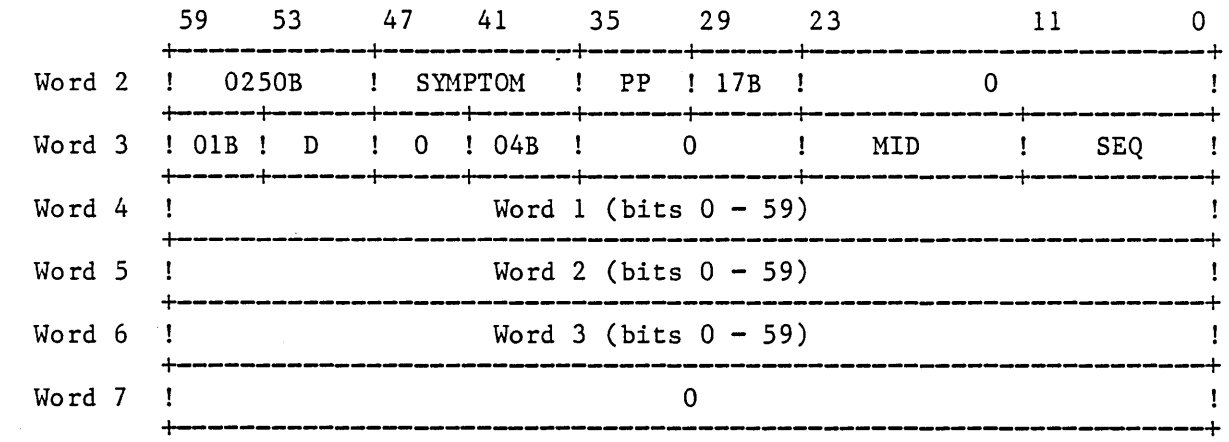
	59–53	47–41	35–29	23–11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0 / D	0	14B	0	MID / SEQ
Word 4	C1 / 20B (10)	C2 / 00B (00)	C3 / 22B (12)	C4 / 40B (20)	0
Word 5	CEL - Corrected Error Log (bits 0 - 59)				
Word 6	UEL1 - Uncorrectable Error Log 1 (bits 0 - 59)				
Word 7	UEL2 - Uncorrectable Error Log 2 (bits 0 - 59)				

Continuation message 2.

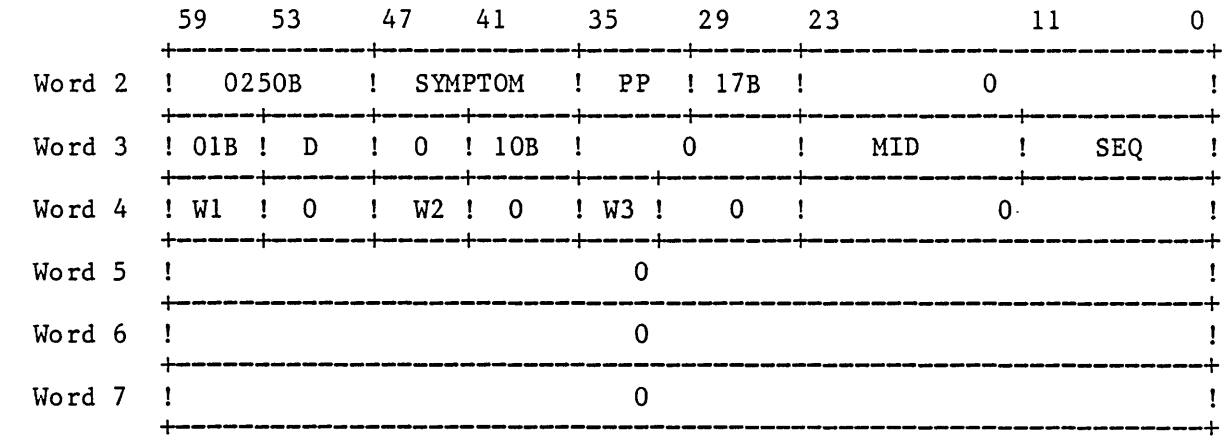


These messages are issued for DFT revision levels greater than 3.

Continuation message 3.



Continuation message 4.



Field	Location	Description
SYMPTOM	47-36	Symptom code. 0403B Corrected memory error. 0404B Uncorrected memory error. 0405B Multiple odd bit error.
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Environment control (bits 60 - 63).
C5	59-56	Corrected error log (bits 60 - 63).
C6	47-44	Uncorrectable error log 1 (bits 60 - 63).
C7	35-32	Uncorrectable error log 2 (bits 60 - 63).
C8	23-20	Bounds register (bits 60 - 63).
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (MODEL 990)	MSGID 0250B
MEMORY ERROR	SYMPTOM 0403B, 0404B, 0405B

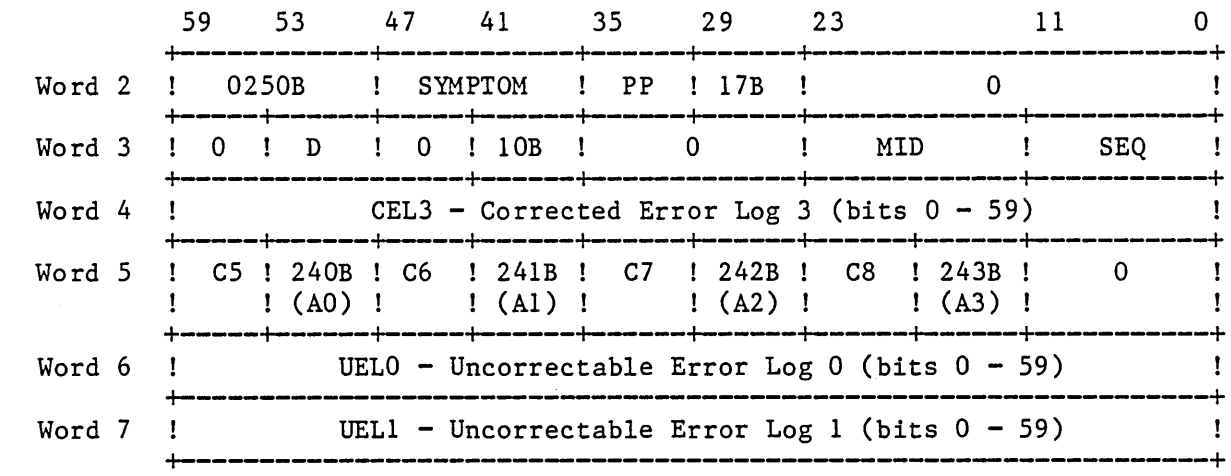
The first message has the following form.

	59–53	47–41	35–29	29–23	23–11	11–0
Word 2	0250B	SYMPTOM	PP	17B	0	
Word 3	0	D	0	04B	0	MID / SEQ
Word 4	EID - Element Identifier (bits 0 - 59)					
Word 5	SS - Status Summary (bits 0 - 59)					
Word 6	OI - Options Installed (bits 0 - 59)					
Word 7	EC - Environment Control (bits 0 - 59)					

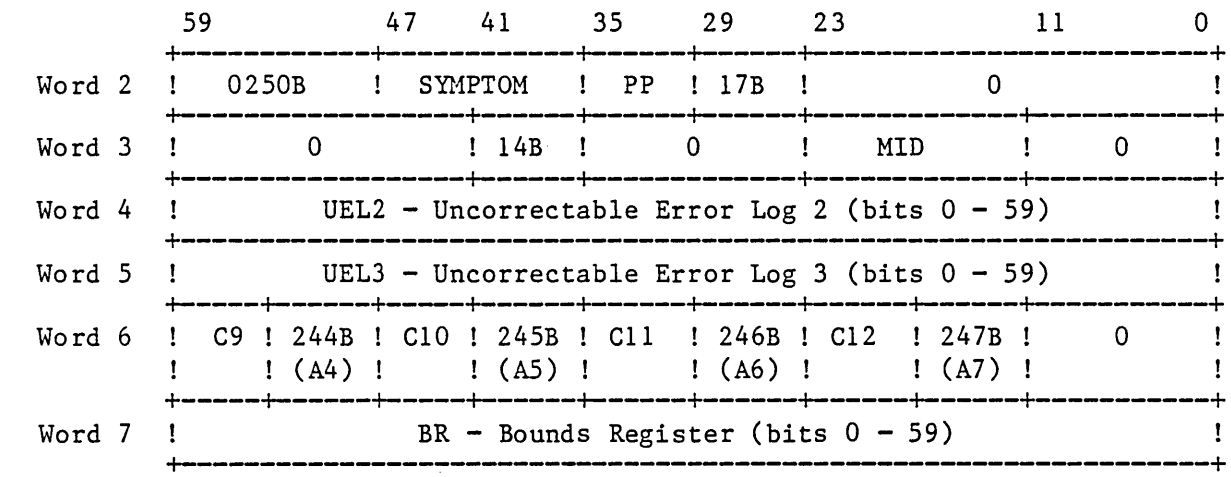
Continuation message 1.

	59–53	47–41	35–29	29–23	23–11	11–0
Word 2	0250B	SYMPTOM	PP	17B	0	
Word 3	0	D	0	04B	0	MID / SEQ
Word 4	C1 20B (10)	C2 00B (00)	C3 22B (12)	C4 40B (20)	0	
Word 5	CEL0 - Corrected Error Log 0 (bits 0 - 59)					
Word 6	CEL1 - Corrected Error Log 1 (bits 0 - 59)					
Word 7	CEL2 - Corrected Error Log 2 (bits 0 - 59)					

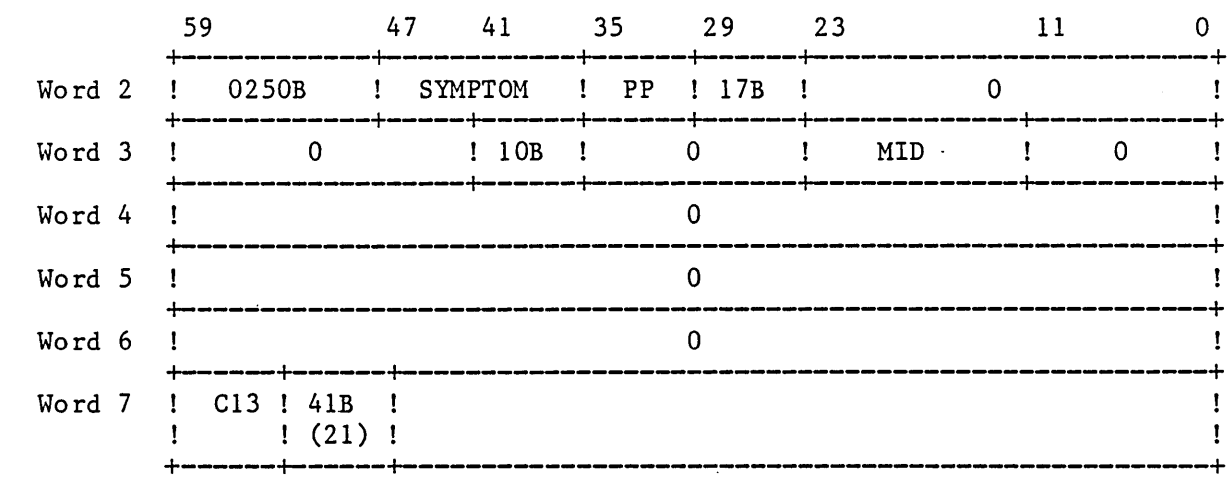
Continuation message 2.



Continuation message 3.

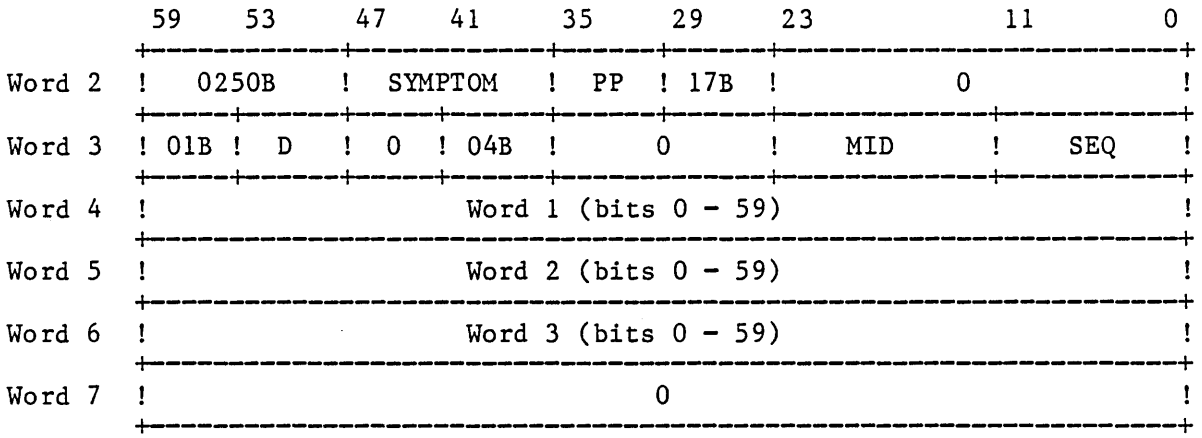


Continuation message 4.

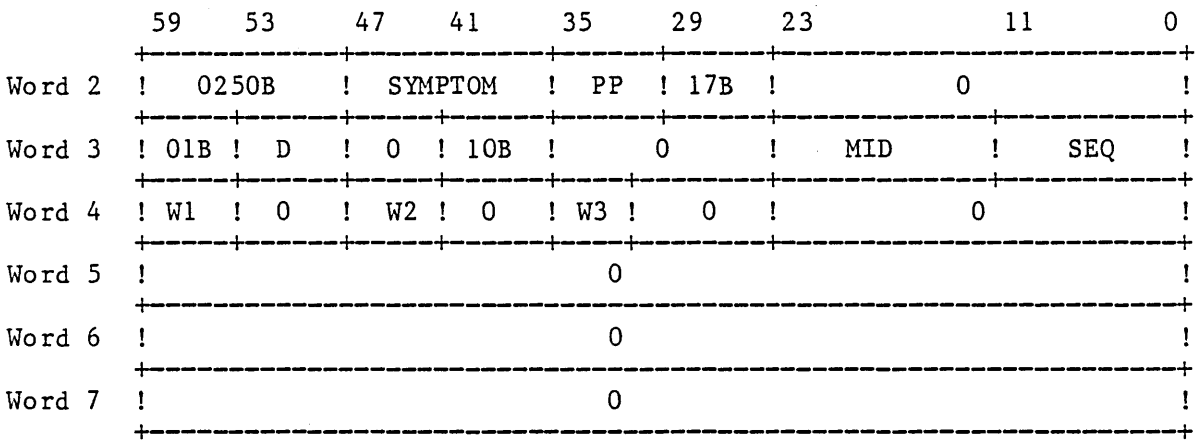


These messages are issued for DFT revision levels greater than 3.

Continuation message 5.



Continuation message 6.



Field	Location	Description
SYMPTOM	47-36	Symptom code. 0403B Corrected memory error. 0404B Uncorrected memory error. 0405B Multiple odd bit error.
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Environment control (bits 60 - 63).
C5	59-56	Corrected error log 0 (bits 60 - 63).
C6	47-44	Corrected error log 1 (bits 60 - 63).
C7	35-32	Corrected error log 2 (bits 60 - 63).
C8	23-20	Corrected error log 3 (bits 60 - 63).
C9	59-56	Uncorrectable error log 0 (bits 60 - 63).
C10	47-44	Uncorrectable error log 1 (bits 60 - 63).
C11	35-32	Uncorrectable error log 2 (bits 60 - 63).
C12	23-20	Uncorrectable error log 3 (bits 60 - 63).
C13	59-56	Bounds register (bits 60 - 63).
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (MODELS 815, 825)	MSGID 0250B
UNCORRECTED PROCESSOR ERROR	SYMPTOM 1001B

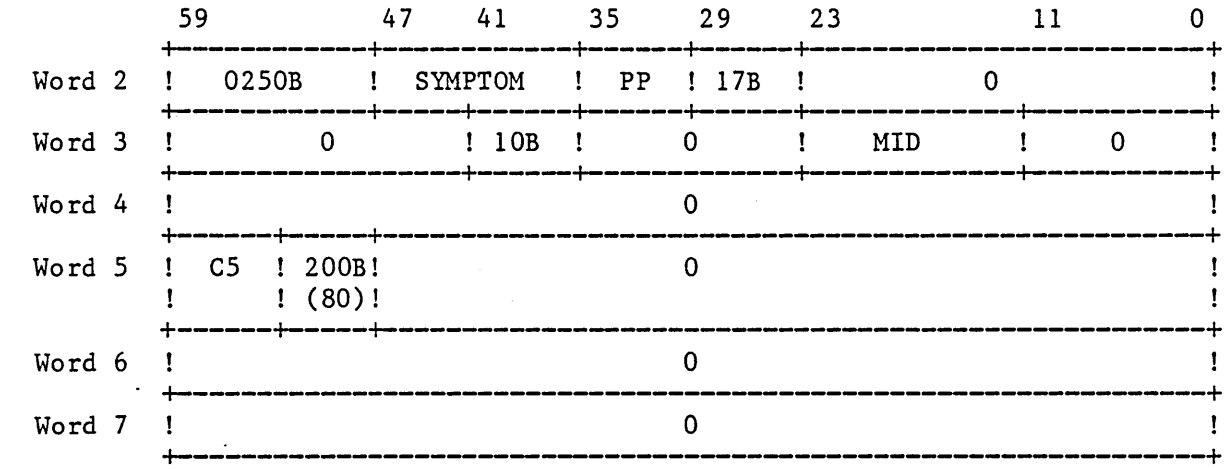
The first message has the following form.

	59	47	41	35	29	23	11	0
Word 2	0250B	SYMPTOM		PP	17B	0		
Word 3	0		04B	0		MID	0	
Word 4	EID - Element Identifier (bits 0 - 59)							
Word 5	SS - Status Summary (bits 0 - 59)							
Word 6	OI - Options Installed (bits 0 - 59)							
Word 7	DEC - Dependent Environment Control (bits 0 - 59)							

Continuation message 1.

	59	47	41	35	29	23	11	0
Word 2	0250B	SYMPTOM		PP	17B	0		
Word 3	0		14B	0		MID	0	
Word 4	C1	20B (10)	C2	00B (00)	C3	22B (12)	C4	60B (30)	0
Word 5	PFS - Processor Fault Status (bits 0 - 59)							
Word 6	0							
Word 7	0							

Continuation message 2.



Field	Location	Description
SYMPTOM	47-39	Symptom code. 1001B Deadstart error log processor error.
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Processor fault status 0 (bits 60 - 63).

MAINFRAME (MODELS 815, 825)	MSGID 0250B
UNCORRECTED PROCESSOR ERROR	SYMPTOM 1004B, 1010B

The first message has the following form.

	59–53	47–41	35–29	29–23	23–11	11–0
Word 2	0250B	SYMPTOM	PP	17B	0	
Word 3	0	D	0	04B	0	MID / SEQ
Word 4	EID - Element Identifier (bits 0 - 59)					
Word 5	SS - Status Summary (bits 0 - 59)					
Word 6	OI - Options Installed (bits 0 - 59)					
Word 7	DEC - Dependent Environment Control (bits 0 - 59)					

Continuation message 1.

	59–53	47–41	35–29	29–23	23–11	11–0
Word 2	0250B	SYMPTOM	PP	17B	0	
Word 3	0	D	0	14B	0	MID / SEQ
Word 4	C1 20B (10)	C2 00B (00)	C3 22B (12)	C4 60B (30)	0	
Word 5	PFS - Processor Fault Status (bits 0 - 59)					
Word 6	0					
Word 7	0					

Continuation message 2.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0 | D	0	14B	0	MID | SEQ
Word 4	0				
Word 5	C5 | 200B (80)	0			
Word 6	0				
Word 7	0				

These messages are issued for DFT revision levels greater than 3.

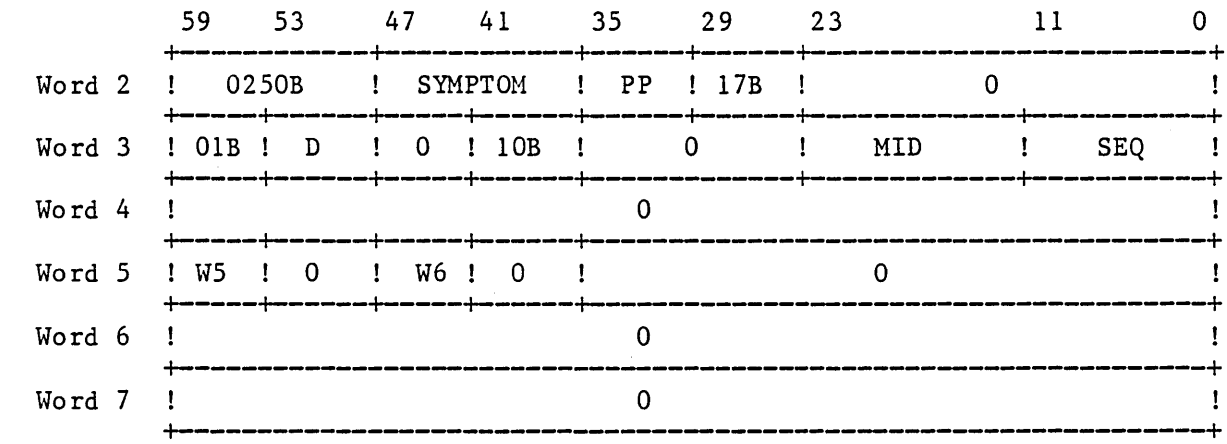
Continuation message 3.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	01B | D	0	04B	0	MID | SEQ
Word 4	Word 1 (bits 0 - 59)				
Word 5	Word 2 (bits 0 - 59)				
Word 6	Word 3 (bits 0 - 59)				
Word 7	Word 4 (bits 0 - 59)				

Continuation message 4.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	01B | D	0	14B	0	MID | SEQ
Word 4	W1 | 0	W2 | 0	W3	0	W4 | 0 | 0
Word 5	Word 5 (bits 0 - 59)				
Word 6	Word 6 (bits 0 - 59)				
Word 7	0				

Continuation message 5.



Field	Location	Description
SYMPTOM	47-39	Symptom code. 1004B Uncorrected processor error. 1010B Fatal CPU halt.
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Environment control (bits 60 - 63).
C5	59-56	Processor fault status 0 (bits 60 - 63).
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59-56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (MODELS 810, 830, 835)	MSGID 0250B
UNCORRECTED PROCESSOR ERROR	SYMPTOM 1001B

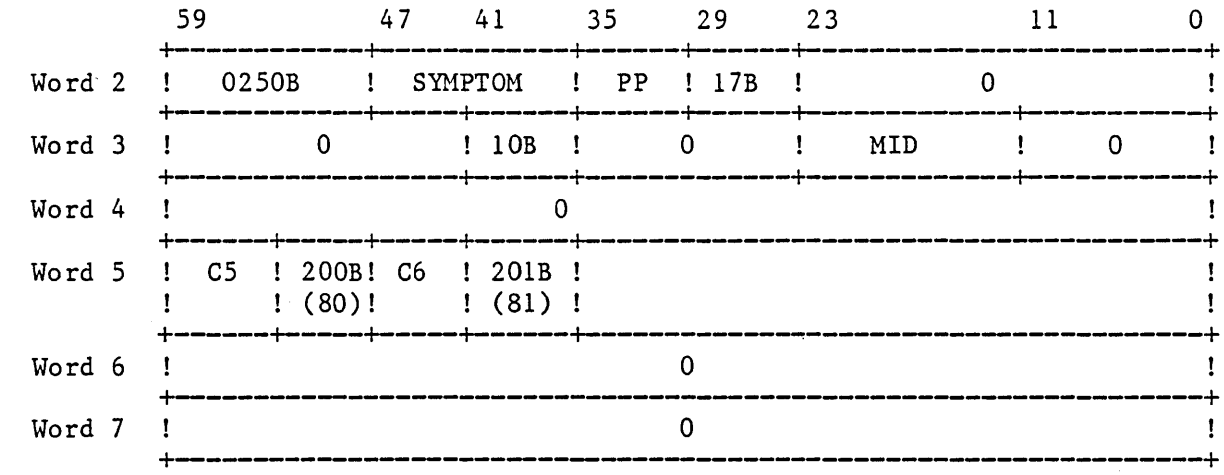
The first message has the following form.

	59 47	41 35	29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	04B	0	MID	0
Word 4	EID - Element identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	DEC - Dependent Environment Control (bits 0 - 59)				

Continuation message 1.

	59 47	41 35	29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	14B	0	MID	0
Word 4	C1 20B (10)	C2 00B (00)	C3 22B (12)	C4 60B (30)	0
Word 5	PFS0 - Processor Fault Status 0 (bits 0 - 59)				
Word 6	PFS1 - Processor Fault Status 1 (bits 0 - 59)				
Word 7	0				

Continuation message 2.



Field	Location	Description
SYMPTOM	47-36	Symptom code. 1001B Deadstart error log processor error.
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-57	Processor fault status 0 (bits 60 - 63).
C6	47-44	Processor fault status 1 (bits 60 - 63).

MAINFRAME (MODELS 810, 830, 835)	MSGID 0250B
UNCORRECTED PROCESSOR ERROR	SYMPTOM 1004B, 1010B

The first message has the following form.

	59–53	47–41	35–29	29–23	23–11	11–0
Word 2	0250B	SYMPTOM	PP	17B	0	
Word 3	0	D	0	04B	0	MID / SEQ
Word 4	EID - Element identifier (bits 0 - 59)					
Word 5	SS - Status Summary (bits 0 - 59)					
Word 6	OI - Options Installed (bits 0 - 59)					
Word 7	DEC - Dependent Environment Control (bits 0 - 59)					

Continuation message 1.

	59–53	47–41	35–29	29–23	23–11	11–0
Word 2	0250B	SYMPTOM	PP	17B	0	
Word 3	0	D	0	14B	0	MID / SEQ
Word 4	C1 20B (10)	C2 00B (00)	C3	22B (12)	C4	60B (30) / 0
Word 5	PFS0 - Processor Fault Status 0 (bits 0 - 59)					
Word 6	PFS1 - Processor Fault Status 1 (bits 0 - 59)					
Word 7	0					

Continuation message 2.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0 | D	0 | 14B	0	MID	SEQ
Word 4	0				
Word 5	C5 | 200B (80)	C6 | 201B (81)			
Word 6	0				
Word 7	0				

These messages are issued for DFT revision levels greater than 3.

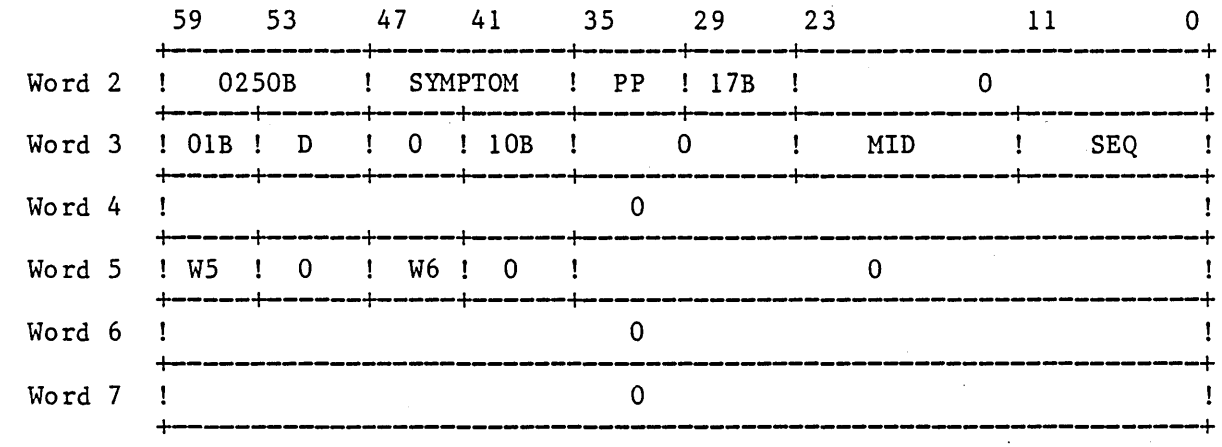
Continuation message 3.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	01B | D	0 | 04B	0	MID	SEQ
Word 4	Word 1 (bits 0 - 59)				
Word 5	Word 2 (bits 0 - 59)				
Word 6	Word 3 (bits 0 - 59)				
Word 7	Word 4 (bits 0 - 59)				

Continuation message 4.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	01B | D	0 | 14B	0	MID	SEQ
Word 4	W1 | 0	W2 | 0	W3 | 0	W5 | 0	0
Word 5	Word 5 (bits 0 - 59)				
Word 6	Word 6 (bits 0 - 59)				
Word 7	0				

Continuation message 5.



Field	Location	Description
SYMPTOM	47-39	Symptom code. 1004B Uncorrected processor error. 1010B Fatal CPU halt.
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Environment control (bits 60 - 63).
C5	59-57	Processor fault status 0 (bits 60 - 63).
C6	47-44	Processor fault status 1 (bits 60 - 63).
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59-56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (MODELS 840,845,850,855,860)	MSGID 0250B
PROCESSOR ERRORS	SYMPTOM 1001B, 1002B

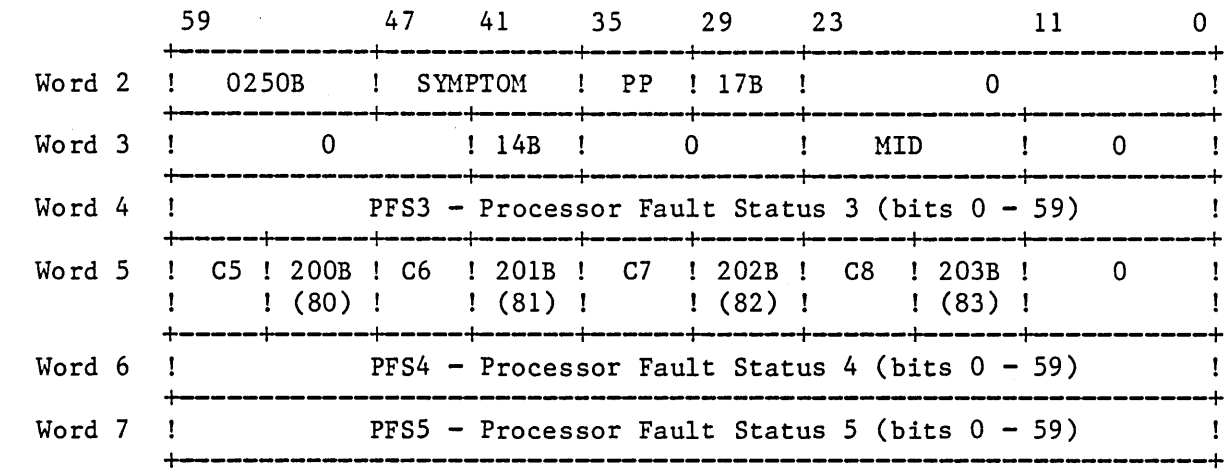
The first message has the following form.

	59 47	41 35	29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	04B	0	MID	0
Word 4	EID - Element Identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	DEC - Dependent Environment Control (bits 0 - 59)				

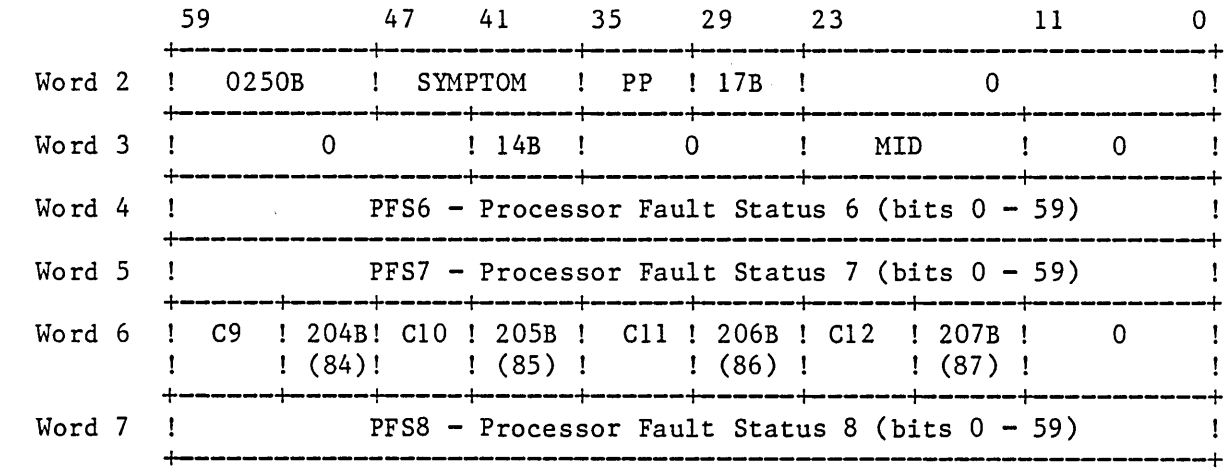
Continuation message 1.

	59 47	41 35	29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	14B	0	MID	0
Word 4	C1 20B (10)	C2 00B (00)	C3 22B (12)	C4 60B (30)	0
Word 5	PFS0 - Processor Fault Status 0 (bits 0 - 59)				
Word 6	PFS1 - Processor Fault Status 1 (bits 0 - 59)				
Word 7	PFS2 - Processor Fault Status 2 (bits 0 - 59)				

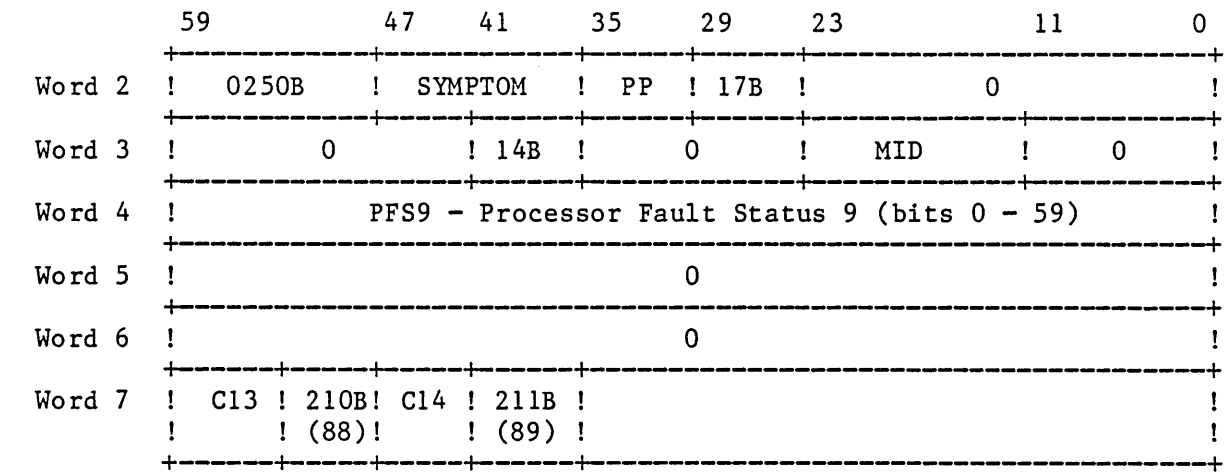
Continuation message 2.



Continuation message 3.



Continuation message 4.



Field	Location	Description
SYMPTOM	47-36	Symptom code. 1001B Deadstart error log processor error. 1002B Express deadstart dump processor error.
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Processor fault status 0 (bits 60 - 63).
C6	47-44	Processor fault status 1 (bits 60 - 63).
C7	35-32	Processor fault status 2 (bits 60 - 63).
C8	23-20	Processor fault status 3 (bits 60 - 63).
C9	59-56	Processor fault status 4 (bits 60 - 63).
C10	47-44	Processor fault status 5 (bits 60 - 63).
C11	35-32	Processor fault status 6 (bits 60 - 63).
C12	23-20	Processor fault status 7 (bits 60 - 63).
C13	59-56	Processor fault status 8 (bits 60 - 63).
C14	47-44	Processor fault status 9 (bits 60 - 63).

MAINFRAME (MODELS 840,845,850,855,860)	MSGID 0250B
PROCESSOR ERRORS	SYMPTOM 1003B, 1004B, 1010B

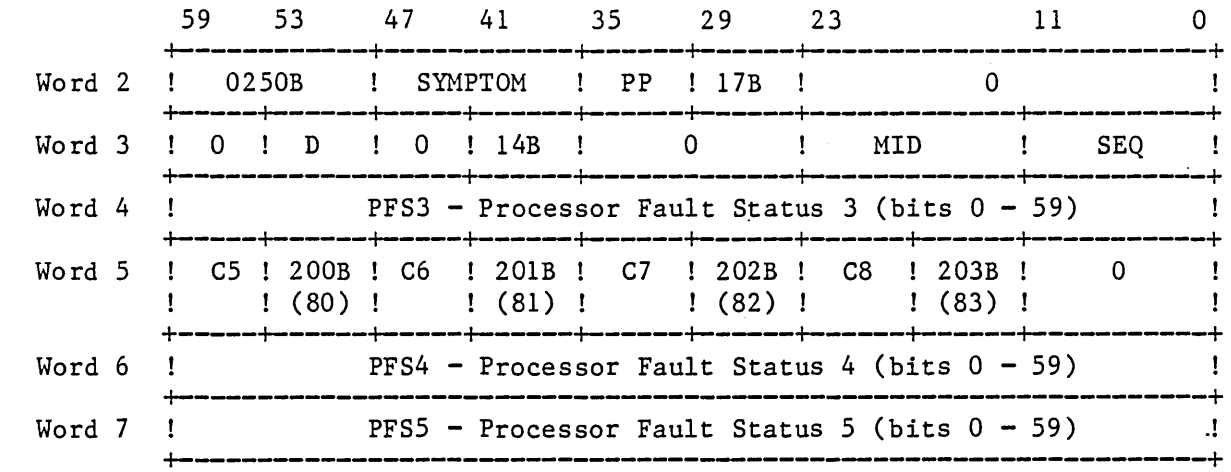
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	EID - Element Identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	DEC - Dependent Environment Control (bits 0 - 59)				

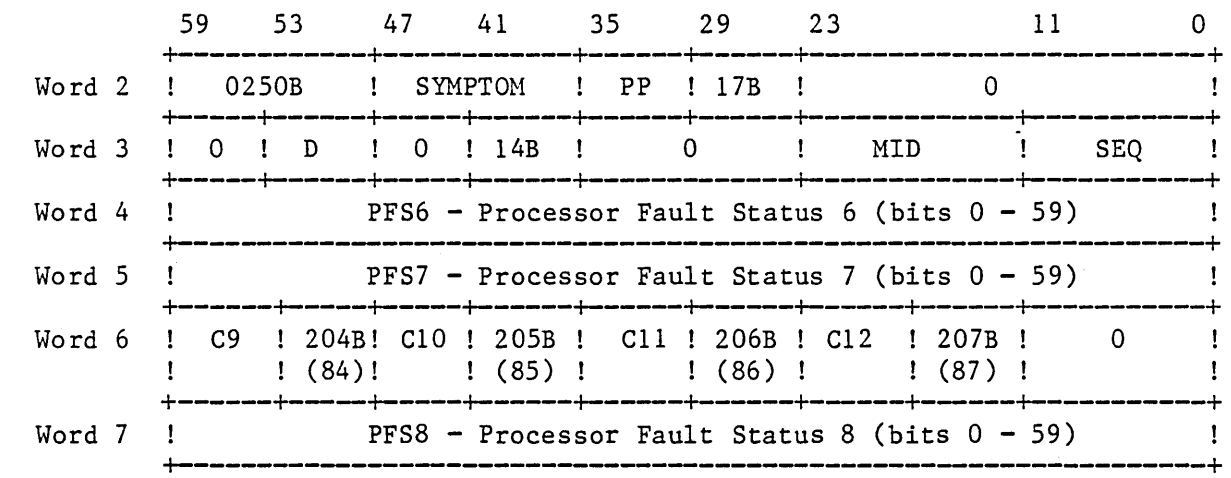
Continuation message 1.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	C1	20B (10)	C2	00B (00)	C3	22B (12)	C4	60B (30)	0
Word 5	PFS0 - Processor Fault Status 0 (bits 0 - 59)				
Word 6	PFS1 - Processor Fault Status 1 (bits 0 - 59)				
Word 7	PFS2 - Processor Fault Status 2 (bits 0 - 59)				

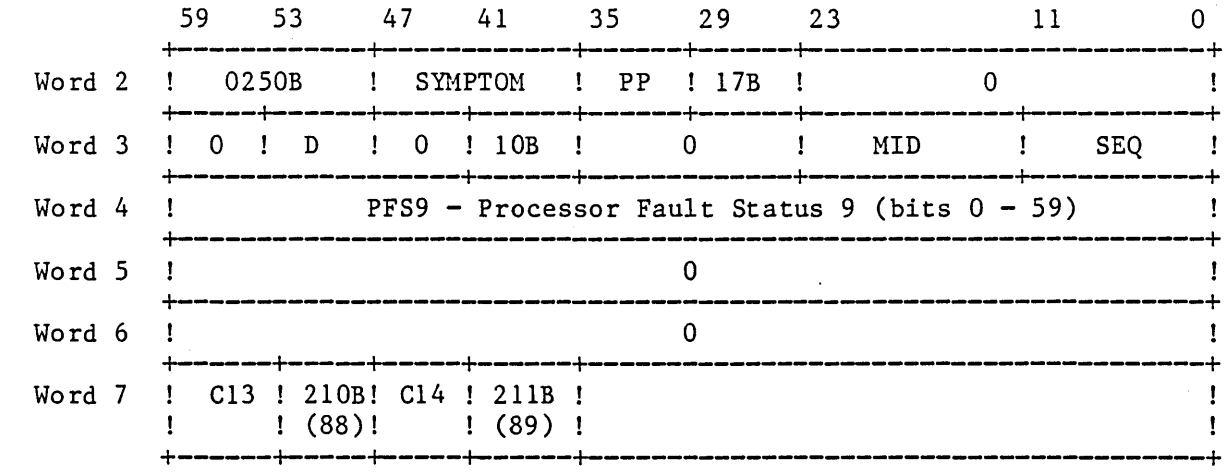
Continuation message 2.



Continuation message 3.

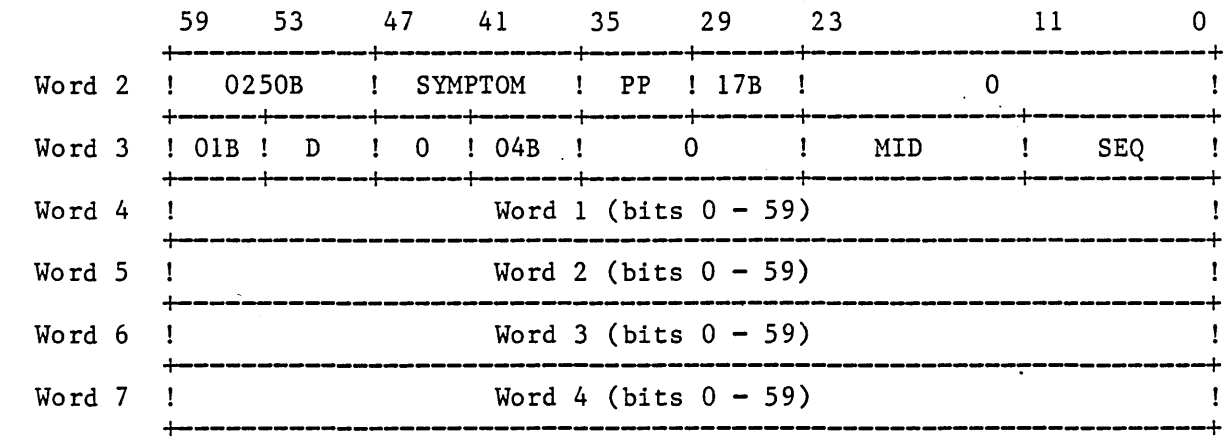


Continuation message 4.

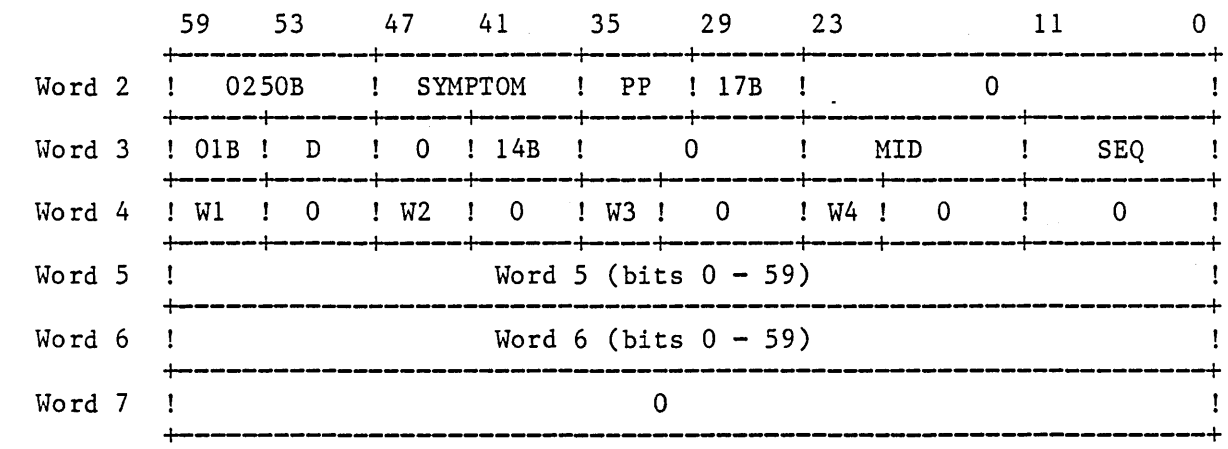


These messages are issued for DFT revision levels greater than 3.

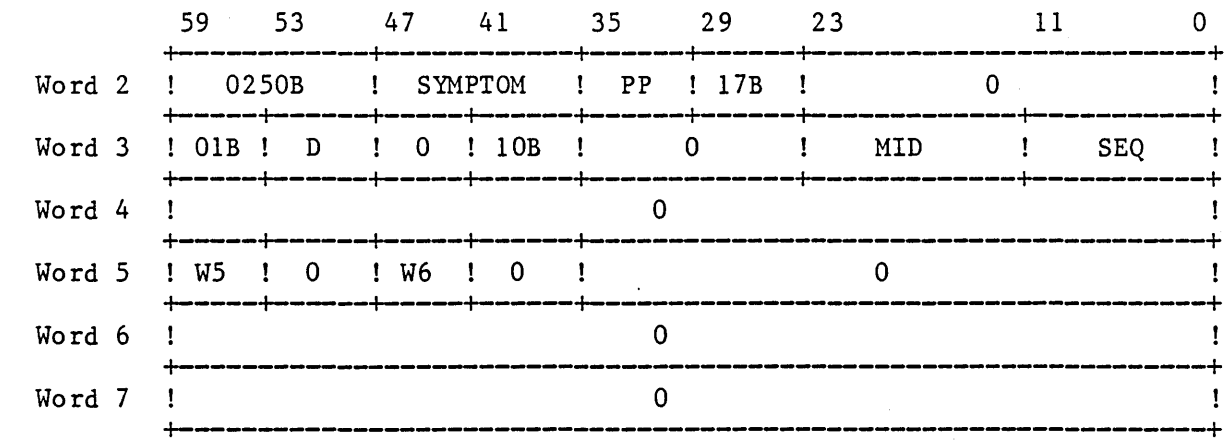
Continuation message 5.



Continuation message 6.



Continuation message 7.



Field	Location	Description
SYMPTOM	47-36	Symptom code. 1003B Corrected processor error. 1004B Uncorrected processor error. 1010B Fatal CPU halt.
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Processor fault status 0 (bits 60 - 63).
C6	47-44	Processor fault status 1 (bits 60 - 63).
C7	35-32	Processor fault status 2 (bits 60 - 63).
C8	23-20	Processor fault status 3 (bits 60 - 63).
C9	59-56	Processor fault status 4 (bits 60 - 63).
C10	47-44	Processor fault status 5 (bits 60 - 63).
C11	35-32	Processor fault status 6 (bits 60 - 63).
C12	23-20	Processor fault status 7 (bits 60 - 63).
C13	59-56	Processor fault status 8 (bits 60 - 63).
C14	47-44	Processor fault status 9 (bits 60 - 63).
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59-56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (MODEL 990)	MSGID 0250B
PROCESSOR ERRORS	SYMPTOM 1001B, 1002B

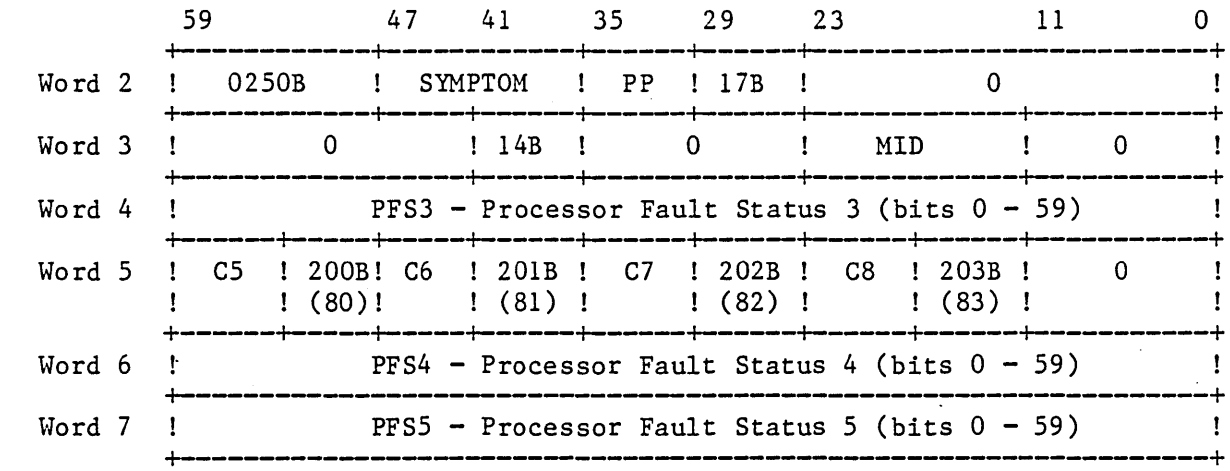
The first message has the following form.

	59 47	41 35	29 23	11 0
Word 2	0250B	SYMPTOM	PP 17B	0
Word 3	0	04B	0	MID 0
Word 4	EID - Element Identifier (bits 0 - 59)			
Word 5	SS - Status Summary (bits 0 - 59)			
Word 6	OI - Options Installed (bits 0 - 59)			
Word 7	DEC - Dependent Environment Control (bits 0 - 59)			

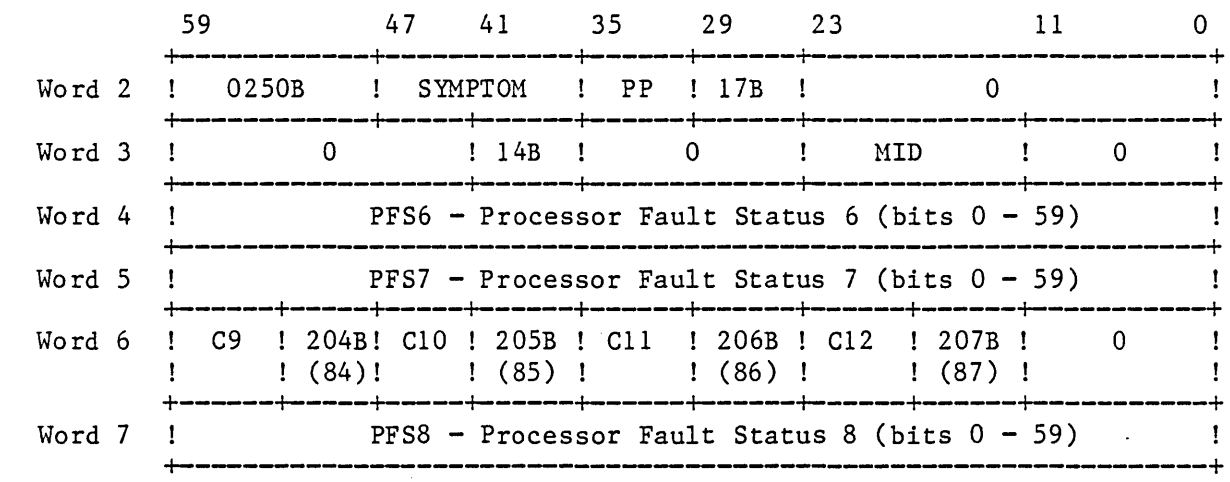
Continuation message 1.

	59 47	41 35	29 23	11 0
Word 2	0250B	SYMPTOM	PP 17B	0
Word 3	0	14B	0	MID 0
Word 4	C1 20B (10)	C2 00B (00)	C3 22B (12)	C4 60B (30) 0
Word 5	PFS0 - Processor Fault Status 0 (bits 0 - 59)			
Word 6	PFS1 - Processor Fault Status 1 (bits 0 - 59)			
Word 7	PFS2 - Processor Fault Status 2 (bits 0 - 59)			

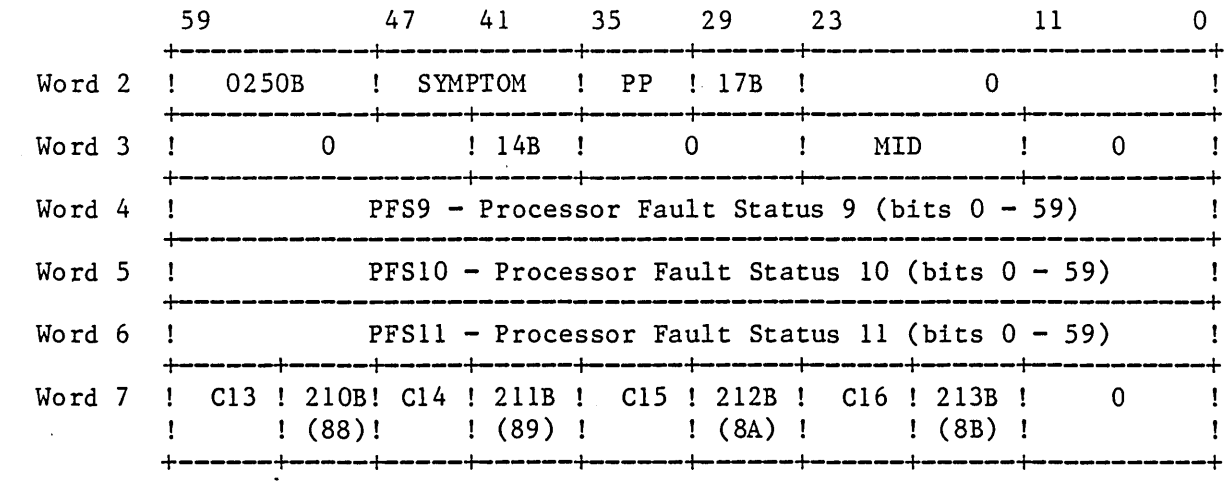
Continuation message 2.



Continuation message 3.



Continuation message 4.



Continuation message 5.

	59 47	41 35	29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	14B	0	MID	0
Word 4	PFS12 - Processor Fault Status 12 (bits 0 - 59)				
Word 5	PFS13 - Processor Fault Status 13 (bits 0 - 59)				
Word 6	PFS14 - Processor Fault Status 14 (bits 0 - 59)				
Word 7	PFS15 - Processor Fault Status 15 (bits 0 - 59)				

Continuation message 6.

	59 47	41 35	29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	10B	0	MID	0
Word 4	C17 214B (8C)	C18 215B (8D)	C19 216B (8E)	C20 217B (8F)	0
Word 5	0				
Word 6	0				
Word 7	0				

Field	Location	Description
SYMPTOM	47-36	Symptom code. 1001B Deadstart error log processor error. 1002B Express deadstart dump processor error.
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Processor fault status 0 (bits 60 - 63).
C6	47-44	Processor fault status 1 (bits 60 - 63).
C7	35-32	Processor fault status 2 (bits 60 - 63).
C8	23-20	Processor fault status 3 (bits 60 - 63).
C9	59-56	Processor fault status 4 (bits 60 - 63).
C10	47-44	Processor fault status 5 (bits 60 - 63).
C11	35-32	Processor fault status 6 (bits 60 - 63).
C12	23-20	Processor fault status 7 (bits 60 - 63).
C13	59-56	Processor fault status 8 (bits 60 - 63).
C14	47-44	Processor fault status 9 (bits 60 - 63).
C15	35-32	Processor fault status 10 (bits 60 - 63).
C16	23-20	Processor fault status 11 (bits 60 - 63).
C17	59-56	Processor fault status 12 (bits 60 - 63).
C18	47-44	Processor fault status 13 (bits 60 - 63).
C19	35-32	Processor fault status 14 (bits 60 - 63).
C20	23-20	Processor fault status 15 (bits 60 - 63).

MAINFRAME (MODEL 990)	MSGID 0250B
PROCESSOR ERRORS	SYMPTOM 1003B, 1004B, 1010B, 1013B, 1014B, 1015B, 1031B, 1032B, 1036B

The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	EID - Element Identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	DEC - Dependent Environment Control (bits 0 - 59)				

Continuation message 1.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	C1	20B (10)	C2	00B (00)	C3	22B (12)	C4	60B (30)	0
Word 5	PFS0 - Processor Fault Status 0 (bits 0 - 59)				
Word 6	PFS1 - Processor Fault Status 1 (bits 0 - 59)				
Word 7	PFS2 - Processor Fault Status 2 (bits 0 - 59)				

Continuation message 2.

	59	53	47	41	35	29	23	11	0
Word 2	0250B		SYMPTOM		PP	17B	0		
Word 3	0	D	0	14B	0		MID	SEQ	
Word 4	PFS3 - Processor Fault Status 3 (bits 0 - 59)								
Word 5	C5	200B (80)	C6	201B (81)	C7	202B (82)	C8	203B (83)	0
Word 6	PFS4 - Processor Fault Status 4 (bits 0 - 59)								
Word 7	PFS5 - Processor Fault Status 5 (bits 0 - 59)								

Continuation message 3.

	59	53	47	41	35	29	23	11	0
Word 2	0250B		SYMPTOM		PP	17B	0		
Word 3	0	D	0	14B	0		MID	SEQ	
Word 4	PFS6 - Processor Fault Status 6 (bits 0 - 59)								
Word 5	PFS7 - Processor Fault Status 7 (bits 0 - 59)								
Word 6	C9	204B (84)	C10	205B (85)	C11	206B (86)	C12	207B (87)	0
Word 7	PFS8 - Processor Fault Status 8 (bits 0 - 59)								

Continuation message 4.

	59	53	47	41	35	29	23	11	0
Word 2	0250B		SYMPTOM		PP	17B	0		
Word 3	0	D	0	14B	0		MID	SEQ	
Word 4	PFS9 - Processor Fault Status 9 (bits 0 - 59)								
Word 5	PFS10 - Processor Fault Status 10 (bits 0 - 59)								
Word 6	PFS11 - Processor Fault Status 11 (bits 0 - 59)								
Word 7	C13	210B (88)	C14	211B (89)	C15	212B (8A)	C16	213B (8B)	0

Continuation message 5.

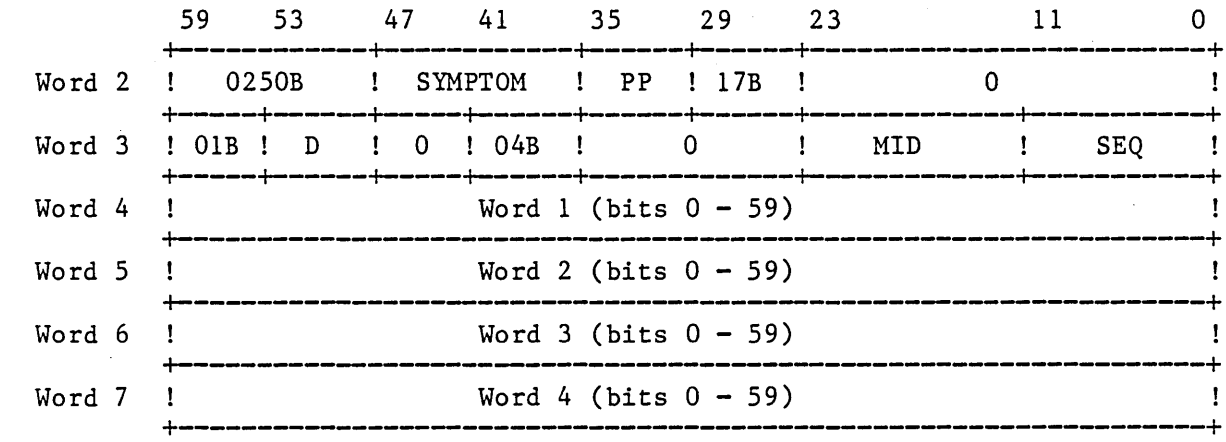
	59 53	47 41	35 29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0 | D	0 | 14B	0	MID	SEQ
Word 4	PFS12 - Processor Fault Status 12 (bits 0 - 59)				
Word 5	PFS13 - Processor Fault Status 13 (bits 0 - 59)				
Word 6	PFS14 - Processor Fault Status 14 (bits 0 - 59)				
Word 7	PFS15 - Processor Fault Status 15 (bits 0 - 59)				

Continuation message 6.

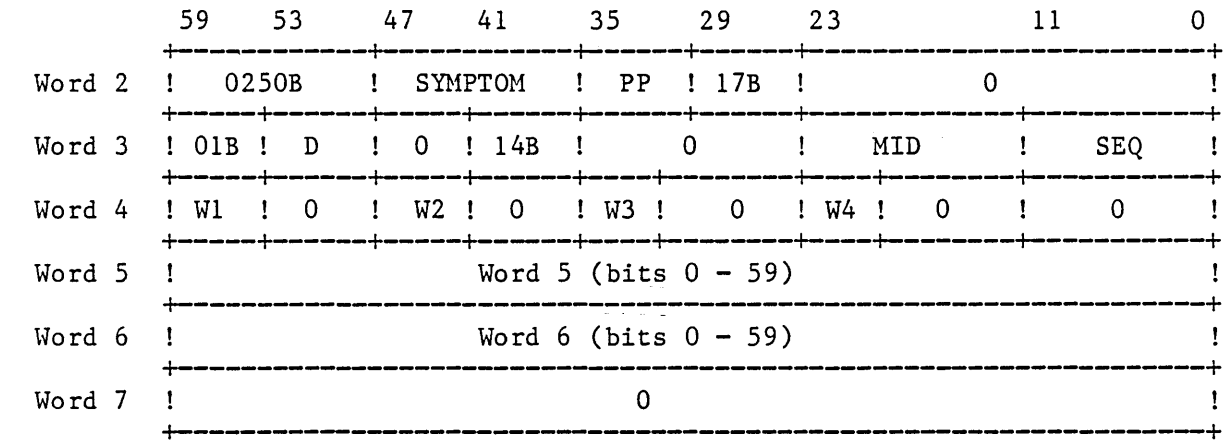
	59 53	47 41	35 29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0 | D	0 | 10B	0	MID	SEQ
Word 4	C17 | 214B (8C)	C18 | 215B (8D)	C19	216B (8E) | C20 | 217B (8F)	0
Word 5	0				
Word 6	0				
Word 7	0				

These messages are issued for DFT revision levels greater than 3.

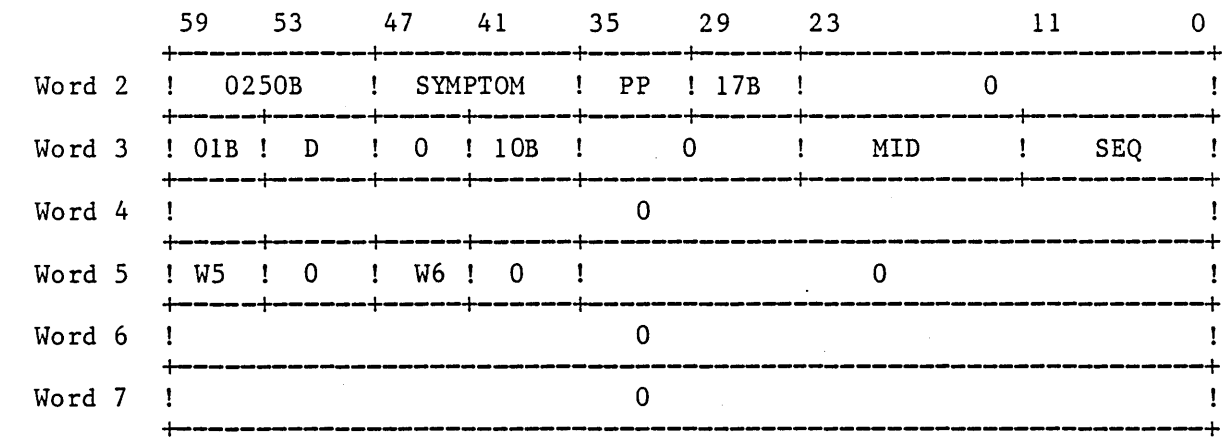
Continuation message 7.



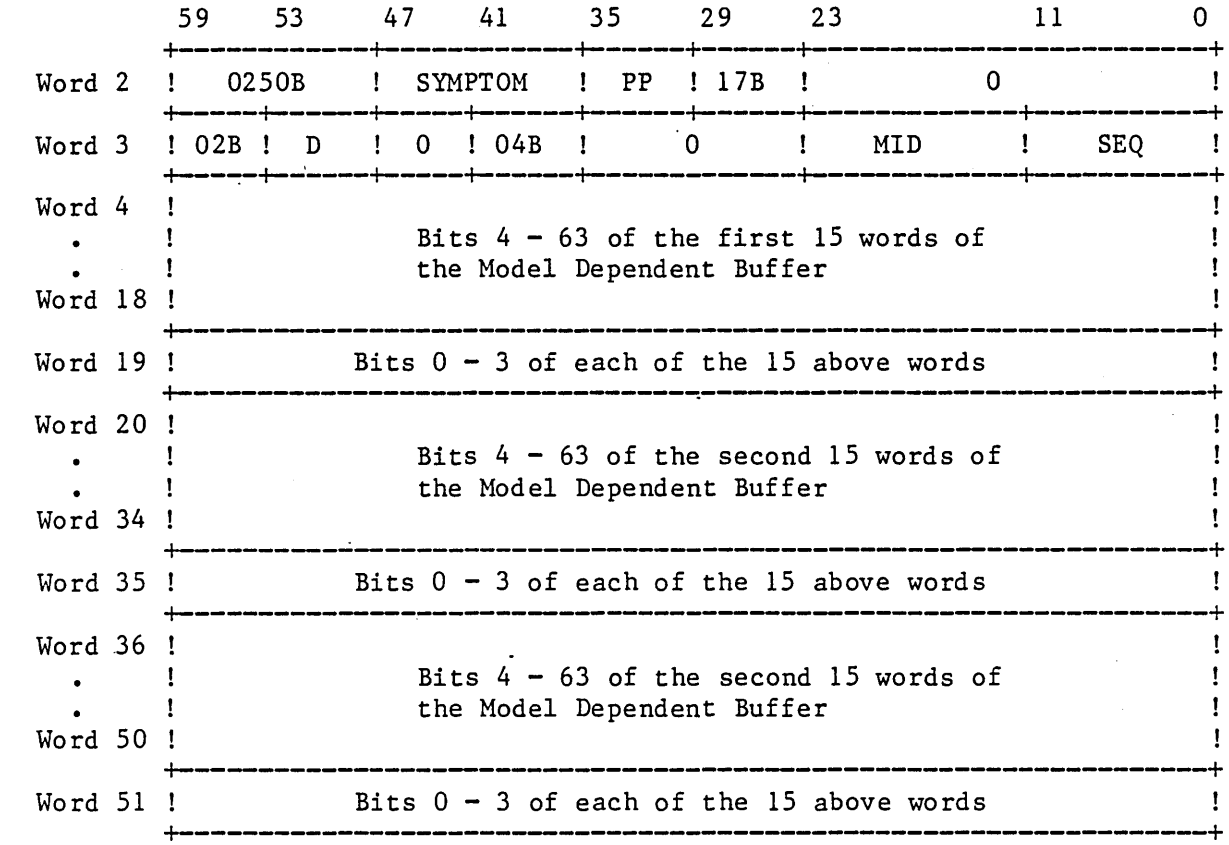
Continuation message 8.



Continuation message 9.



Continuation message 10. (As many continuation messages as necessary are issued for the model dependent buffer data).



Field	Location	Description
SYMPTOM	47-36	Symptom code. 1003B Corrected processor error. 1004B Uncorrected processor error. 1010B Fatal CPU halt (class 1). 1013B Fatal CPU recovery error. 1014B Corrected processor error with cache reload. 1015B Fatal CPU uncorrected error. 1031B Forced uncorrected error. 1032B Fatal CPU halt (class 2). 1033B Retry converted to uncorrected error. 1036B Partial write address parity error.
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Processor fault status 0 (bits 60 - 63).
C6	47-44	Processor fault status 1 (bits 60 - 63).
C7	35-32	Processor fault status 2 (bits 60 - 63).
C8	23-20	Processor fault status 3 (bits 60 - 63).
C9	59-56	Processor fault status 4 (bits 60 - 63).
C10	47-44	Processor fault status 5 (bits 60 - 63).
C11	35-32	Processor fault status 6 (bits 60 - 63).
C12	23-20	Processor fault status 7 (bits 60 - 63).
C13	59-56	Processor fault status 8 (bits 60 - 63).
C14	47-44	Processor fault status 9 (bits 60 - 63).
C15	35-32	Processor fault status 10 (bits 60 - 63).
C16	23-20	Processor fault status 11 (bits 60 - 63).
C17	59-56	Processor fault status 12 (bits 60 - 63).
C18	47-44	Processor fault status 13 (bits 60 - 63).
C19	35-32	Processor fault status 14 (bits 60 - 63).
C20	23-20	Processor fault status 15 (bits 60 - 63).
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59-56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (MODELS 810, 815, 825, 830)	MSGID 0250B
EXPRESS DEADSTART DUMP PROCESSOR ERROR	SYMPTOM 1002B

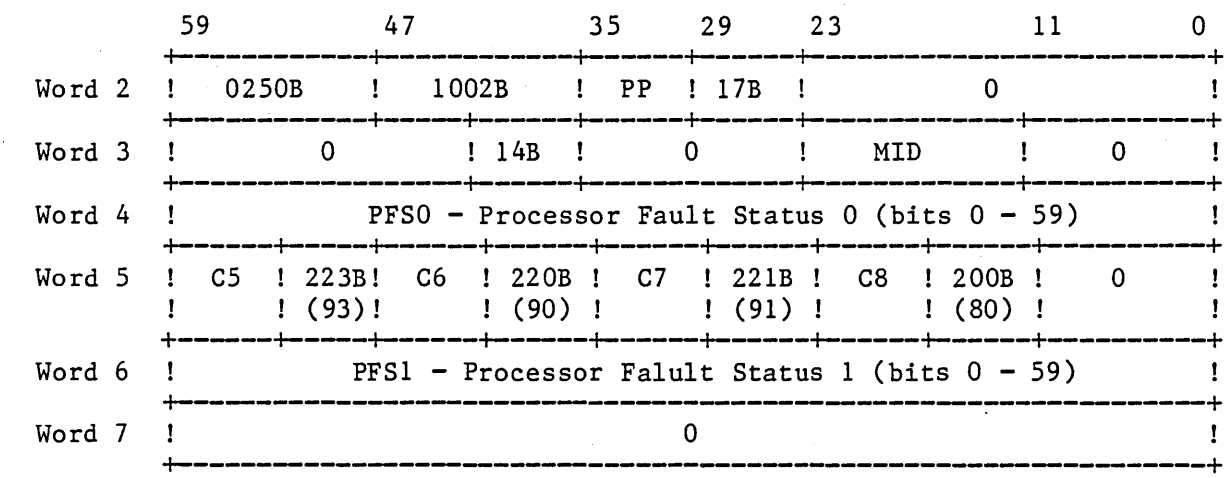
The first message has the following form.

	59 47	41 35	29 23	11 0
Word 2	0250B	1002B	PP 17B	0
Word 3	0	04B 0	MID	0
Word 4	EID - Element Identifier (bits 0 - 59)			
Word 5	SS - Status Summary (bits 0 - 59)			
Word 6	OI - Options Installed (bits 0 - 59)			
Word 7	DEC - Dependent Environment Control (bits 0 - 59)			

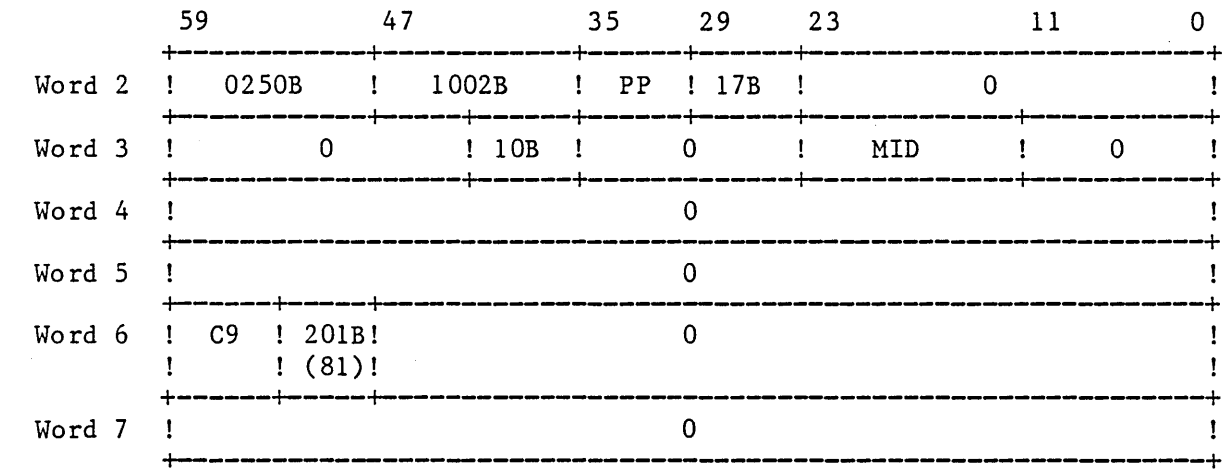
Continuation message 1.

	59 47	41 35	29 23	11 0
Word 2	0250B	1002B	PP 17B	0
Word 3	0	14B 0	MID	0
Word 4	C1 20B (10)	C2 00B (00)	C3 22B (12)	C4 60B (30) 0
Word 5	MCEL - Map Corrected Error Log (bits 0 - 59)			
Word 6	RCEL - Retry Corrected Error Log (bits 0 - 59)			
Word 7	CSEL - Control Store Error Log (bits 0 - 59)			

Continuation message 2.



Continuation message 3.



Field	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-57	Map corrected error log (bits 60 - 63).
C6	47-44	Retry corrected error log (bits 60 - 63).
C7	35-32	Control store error log (bits 60 - 63).
C8	23-20	Processor fault status 0 (bits 60 - 63).
C9	59-57	Processor fault status 1 (bits 60 - 63).

MAINFRAME (MODEL 835)	MSGID 0250B
EXPRESS DEADSTART DUMP PROCESSOR ERROR	SYMPTOM 1002B

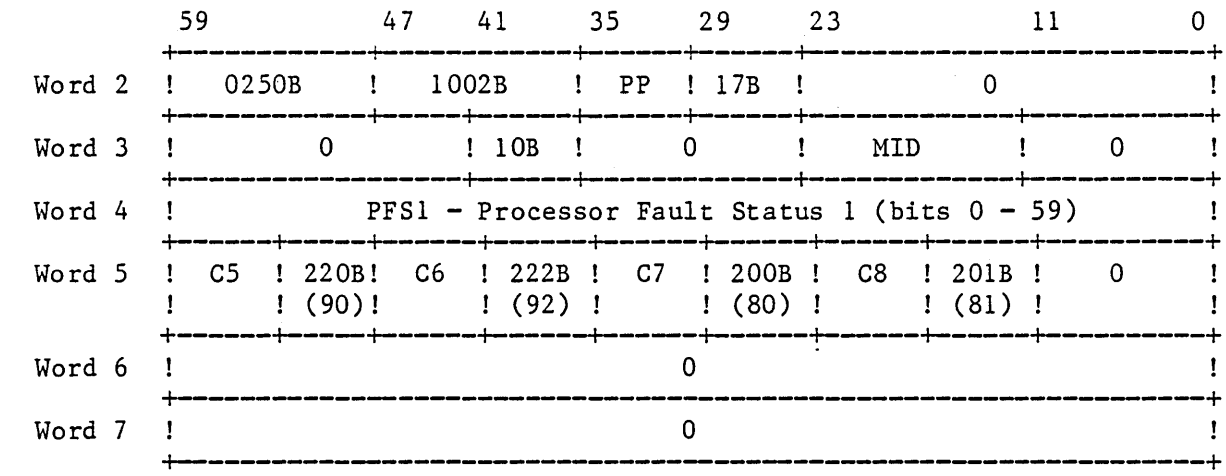
The first message has the following form.

	59 47	41 35	29	23 11	0
Word 2	0250B	1002B	PP	17B	0
Word 3	0	04B	0	MID	0
Word 4	EID - Element Identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	DEC - Dependent Environment Control (bits 0 - 59)				

Continuation message 1.

	59 47	41 35	29	23 11	0
Word 2	0250B	1002B	PP	17B	0
Word 3	0	14B	0	MID	0
Word 4	C1 | 20B (10)	C2 | 00B (00)	C3 | 22B (12)	C4 | 60B (30)	0
Word 5	RCEL - Retry Corrected Error Log (bits 0 - 59)				
Word 6	CCEL - Cache Corrected Error Log (bits 0 - 59)				
Word 7	PFS0 - Processor Fault Status 0 (bits 0 - 59)				

Continuation message 2.



Field	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Retry corrected error Log (bits 60 - 63).
C6	47-44	Cache corrected error Log (bits 60 - 63).
C7	35-32	Processor fault status 0 (bits 60 - 63).
C8	23-20	Processor fault status 1 (bits 60 - 63).

MAINFRAME (MODELS 815, 825)	MSGID 0250B
CORRECTED PROCESSOR ERROR	SYMPTOM 1003B

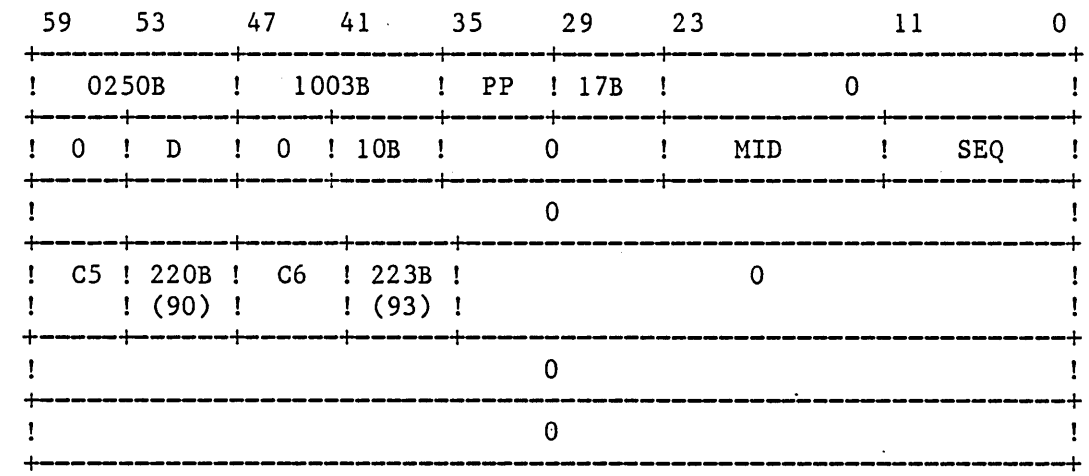
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	1003B	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	EID - Element Identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	DEC - Dependent Environment Control (bits 0 - 59)				

Continuation message 1.

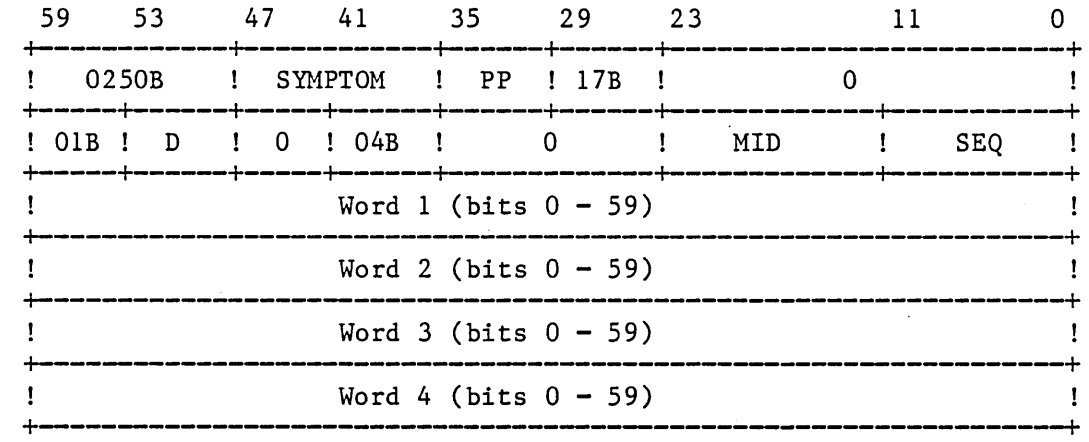
	59–53	47–41	35–29	23–11	0
Word 2	0250B	1003B	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	C1	20B (10)	C2	00B (00)	C3	22B (12)	C4	60B (30)	0
Word 5	RCEL - Retry Corrected Error Log (bits 0 - 59)				
Word 6	MCEL - Map Corrected Error Log (bits 0 - 59)				
Word 7	0				

uation message 2.

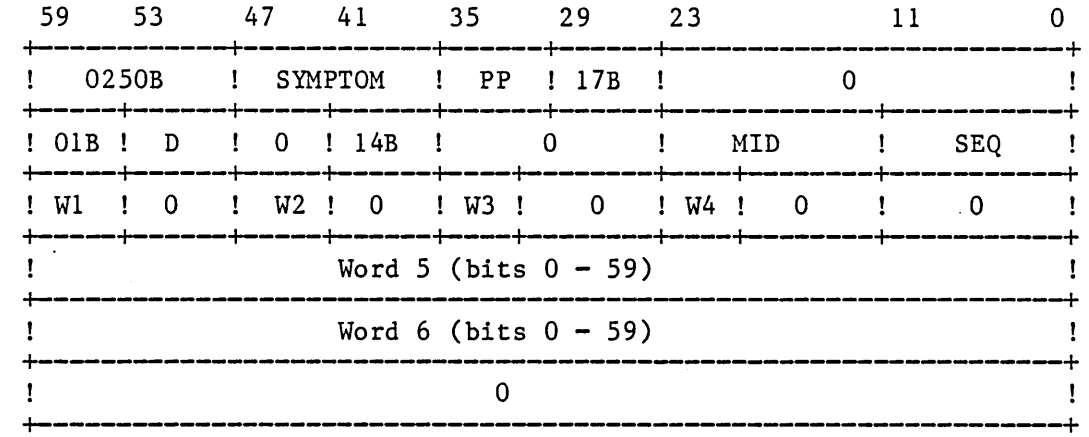


messages are issued for DFT revision levels greater than 3.

uation message 3.



uation message 4.



MAINFRAME (MODELS 810, 830)	MSGID 0250B
CORRECTED PROCESSOR ERROR	SYMPTOM 1003B

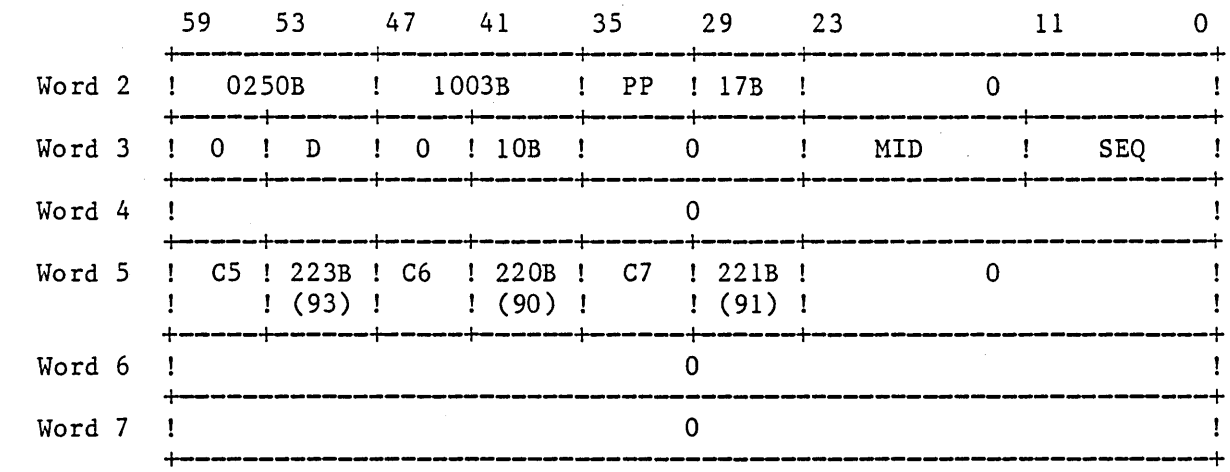
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	1003B	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	EID - Element identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	DEC - Dependent Environment Control (bits 0 - 59)				

Continuation message 1.

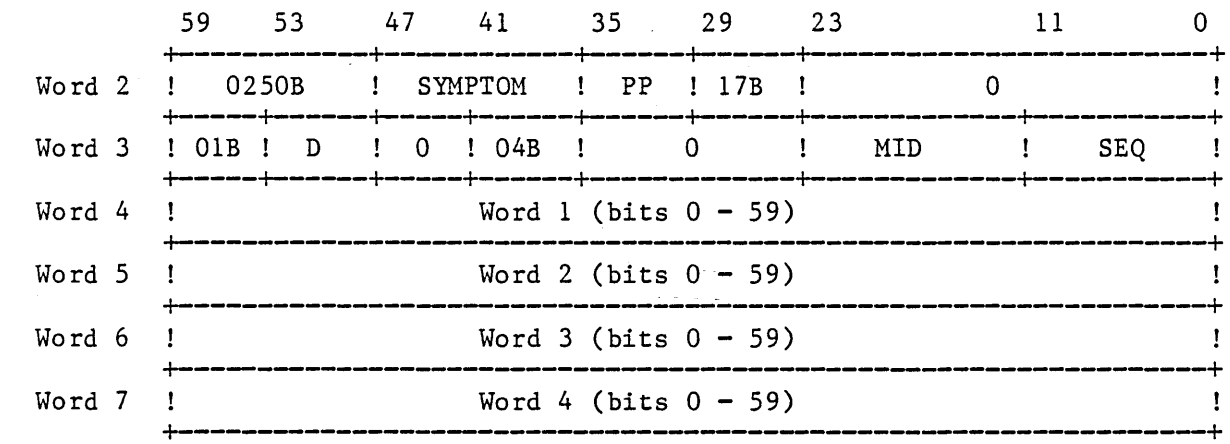
	59–53	47–41	35–29	23–11	0
Word 2	0250B	1003B	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	C1	20B (10)	C2	00B (00)	C3	22B (12)	C4	60B (30)	0
Word 5	MCEL - Map Corrected Error Log (bits 0 - 59)				
Word 6	RCEL - Retry Corrected Error Log (bits 0 - 59)				
Word 7	CSEL - Control Store Error Log (bits 0 - 59)				

Continuation message 2.

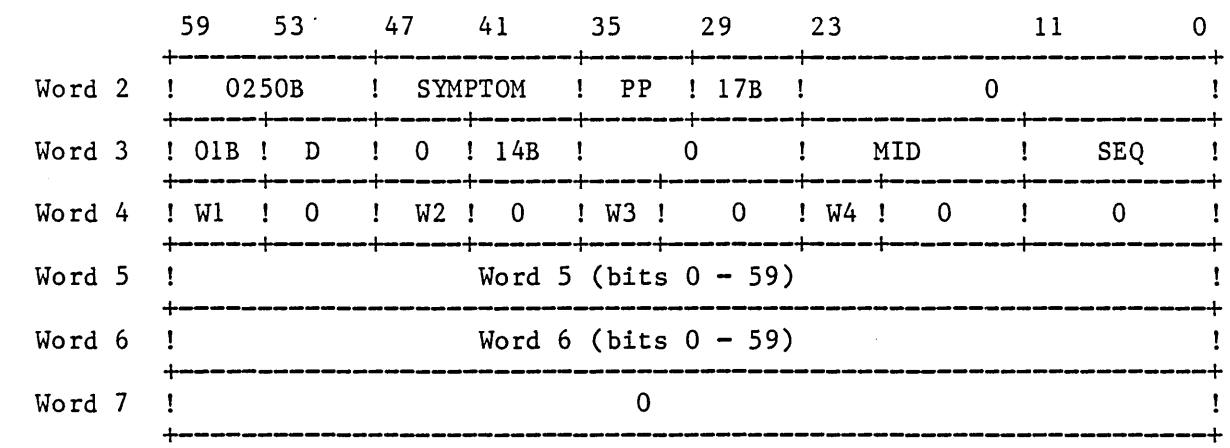


These messages are issued for DFT revision levels greater than 3.

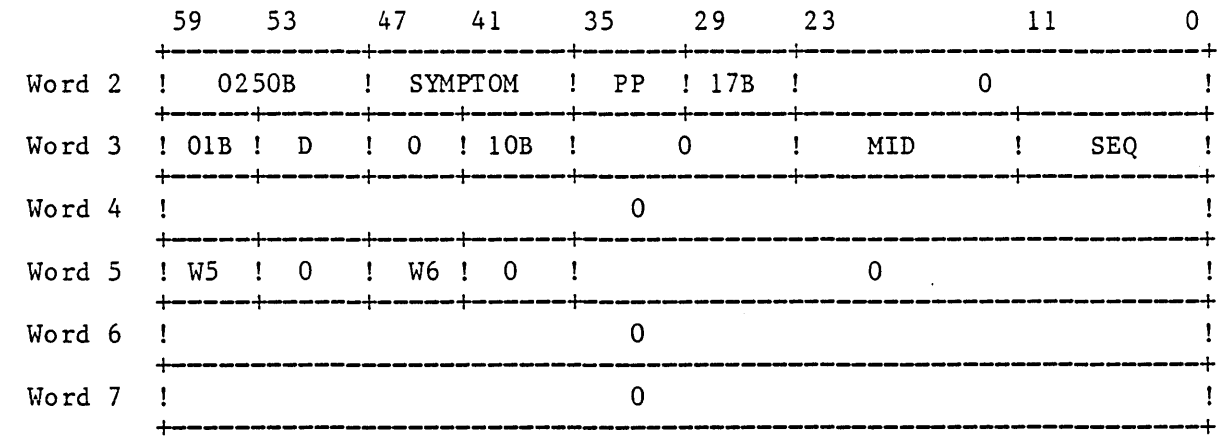
Continuation message 3.



Continuation message 4.



Continuation message 5.



Field	Location	Description
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Map corrected error log (bits 60 - 63).
C6	47-44	Retry corrected error log (bits 60 - 63).
C7	35-32	Control store error log (bits 60 - 63).
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59-56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (MODEL 835)	MSGID 0250B
CORRECTED PROCESSOR ERROR	SYMPTOM 1003B

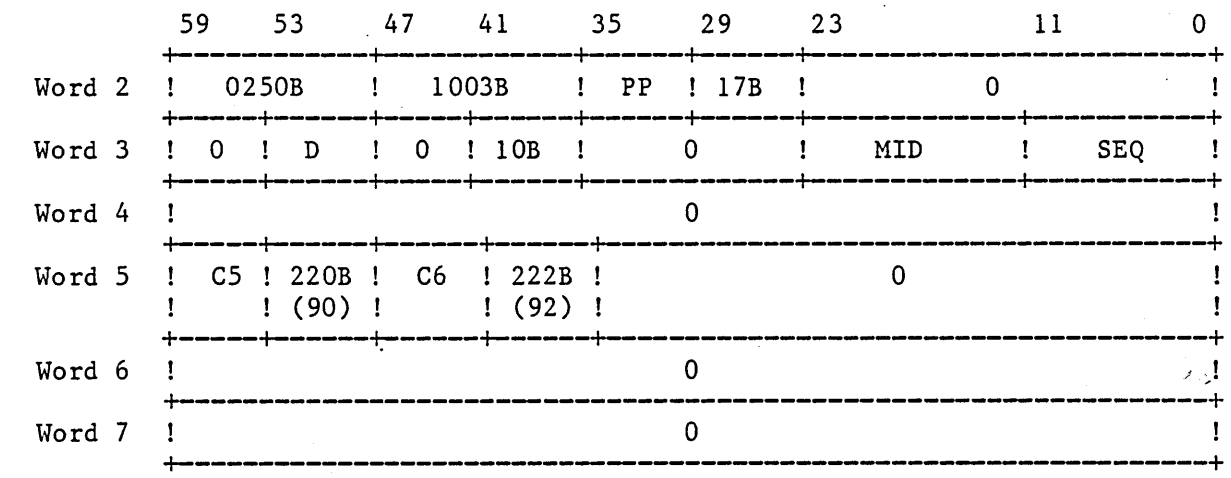
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	1003B	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	EID - Element Identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	DEC - Dependent Environment Control (bits 0 - 59)				

Continuation message 1.

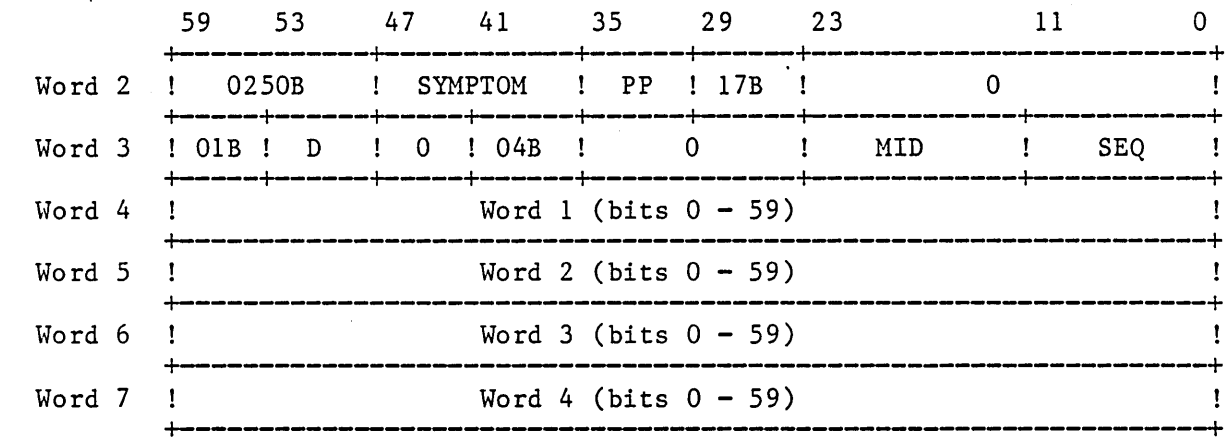
	59–53	47–41	35–29	23–11	0
Word 2	0250B	1003B	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	C1	20B (10)	C2	00B (00)	C3	22B (12)	C4	60B (30)	0
Word 5	RCEL - Retry Corrected Error Log (bits 0 - 59)				
Word 6	CCEL - Cache Corrected Error Log (bits 0 - 59)				
Word 7	0				

Continuation message 2.

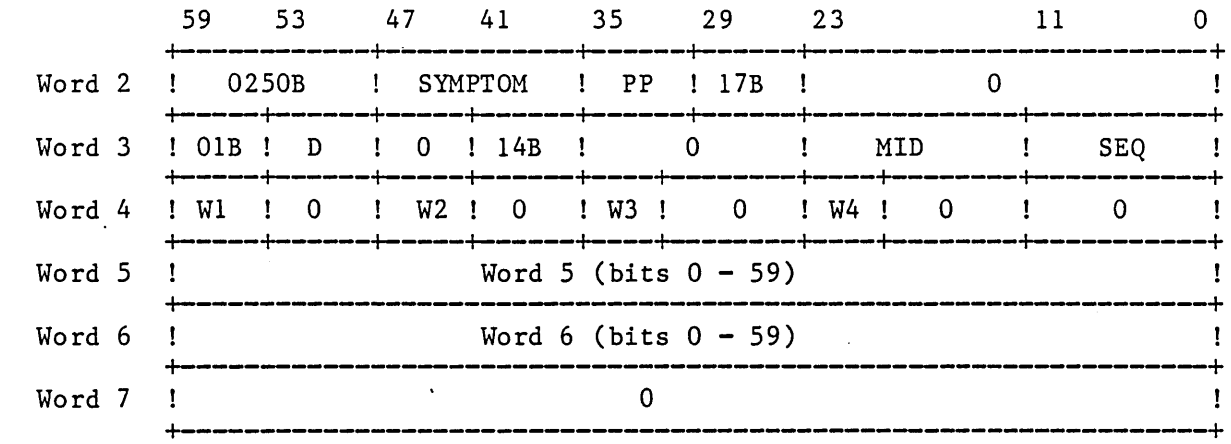


These messages are issued for DFT revision levels greater than 3.

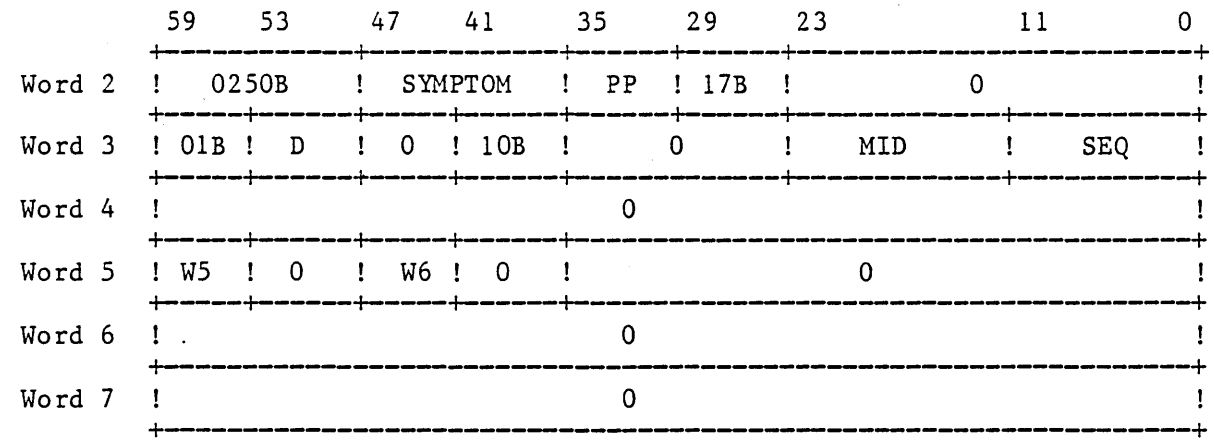
Continuation message 3.



Continuation message 4.



Continuation message 5.



Field	Location	Description
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Retry corrected error log (bits 60 - 63).
C6	47-44	Cache corrected error log (bits 60 - 63).
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59-56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (MODEL 990)	MSGID 0250B
REPAIRABLE/RETRYABLE ERROR	SYMPTOM 1005B, 1006B, 1007B 1034B, 1035B

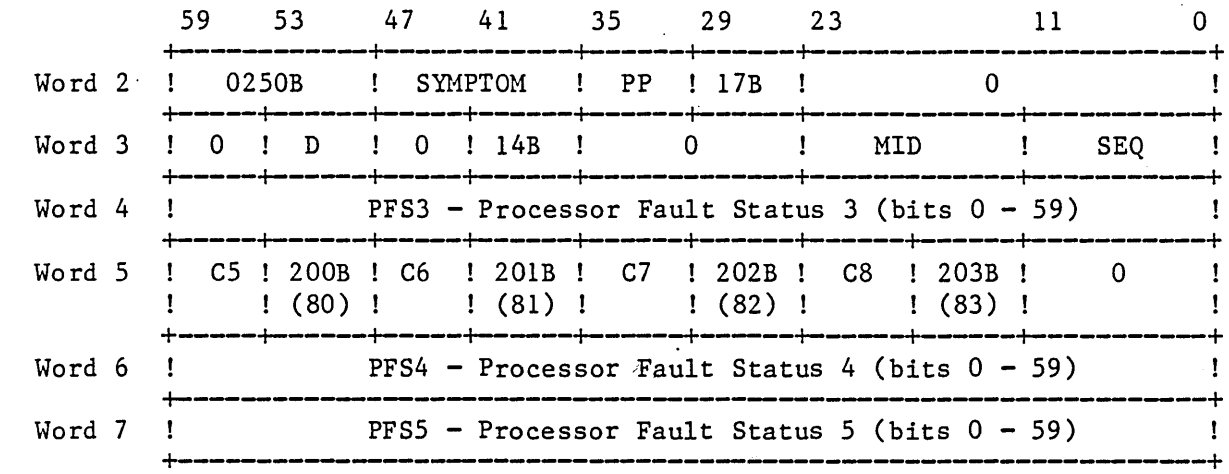
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	EID - Element identifier (bits 0 - 59)				
Word 5	SS - Status Summary (bits 0 - 59)				
Word 6	OI - Options Installed (bits 0 - 59)				
Word 7	DEC - Dependent Environment Control (bits 0 - 59)				

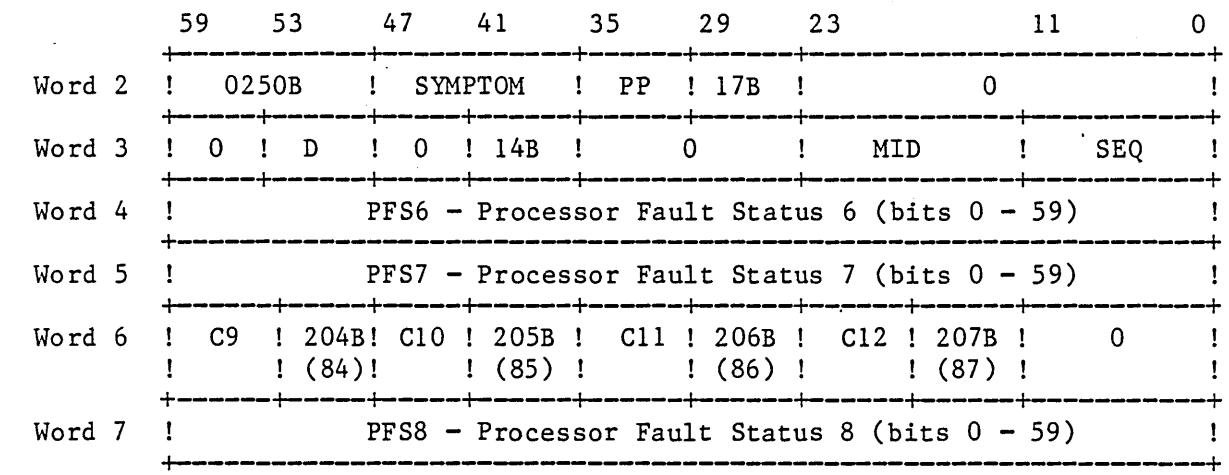
Continuation message 1.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	C1	20B (10)	C2	00B (00)	C3	22B (12)	C4	60B (30)	0
Word 5	PFS0 - Processor Fault Status 0 (bits 0 - 59)				
Word 6	PFS1 - Processor Fault Status 1 (bits 0 - 59)				
Word 7	PFS2 - Processor Fault Status 2 (bits 0 - 59)				

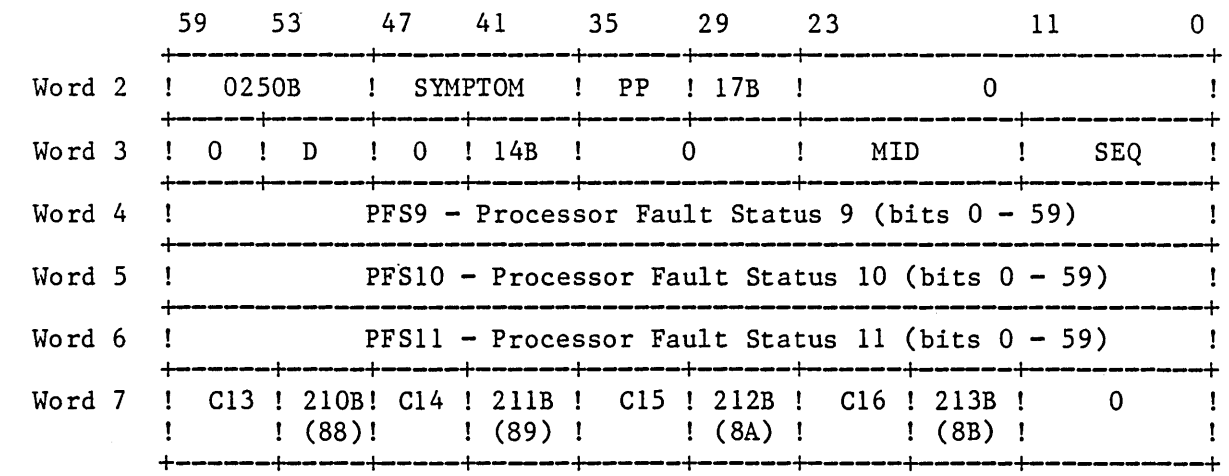
Continuation message 2.



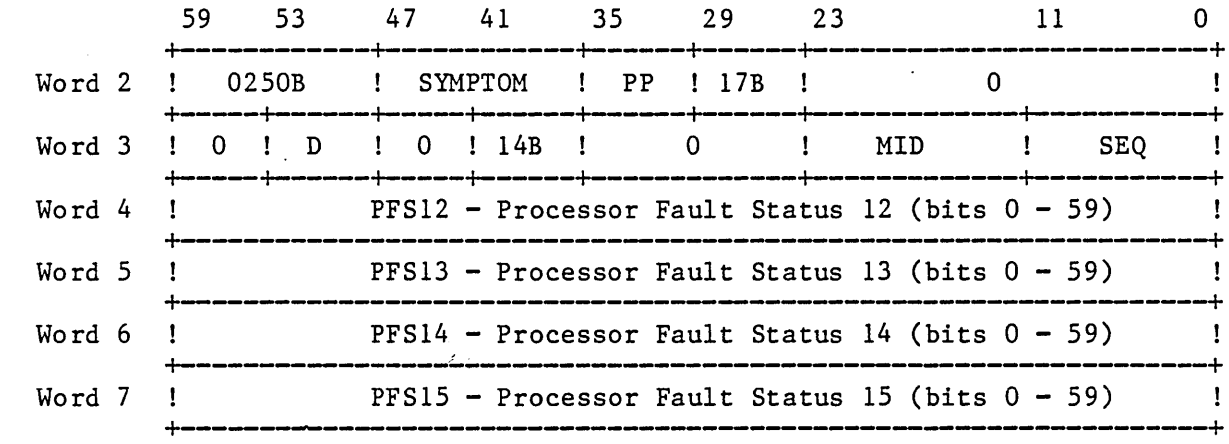
Continuation message 3.



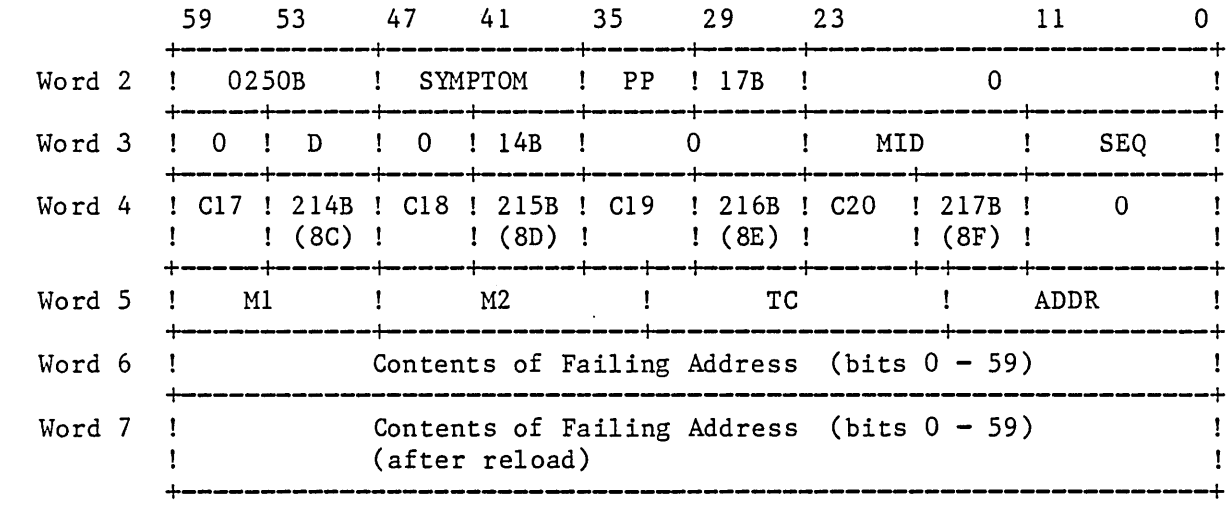
Continuation message 4.



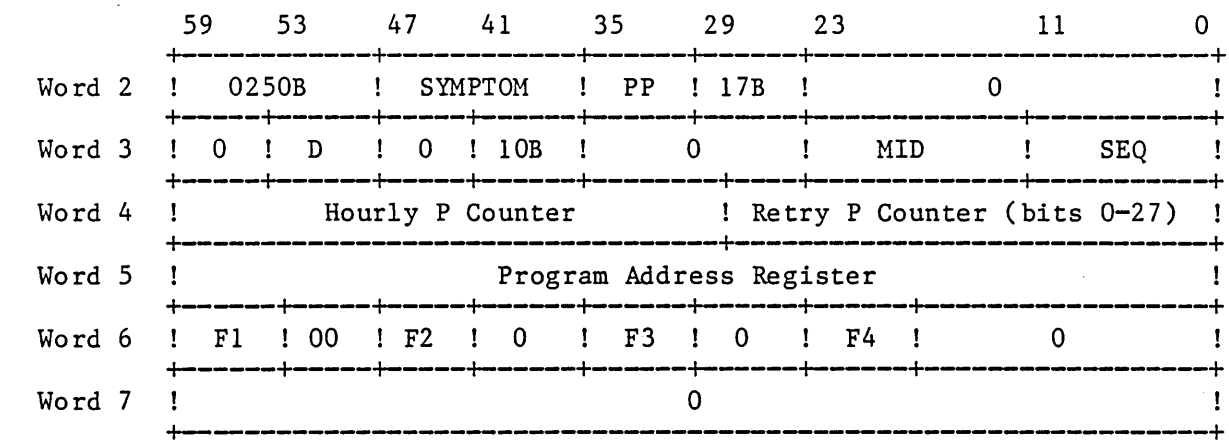
Continuation message 5.



Continuation message 6.

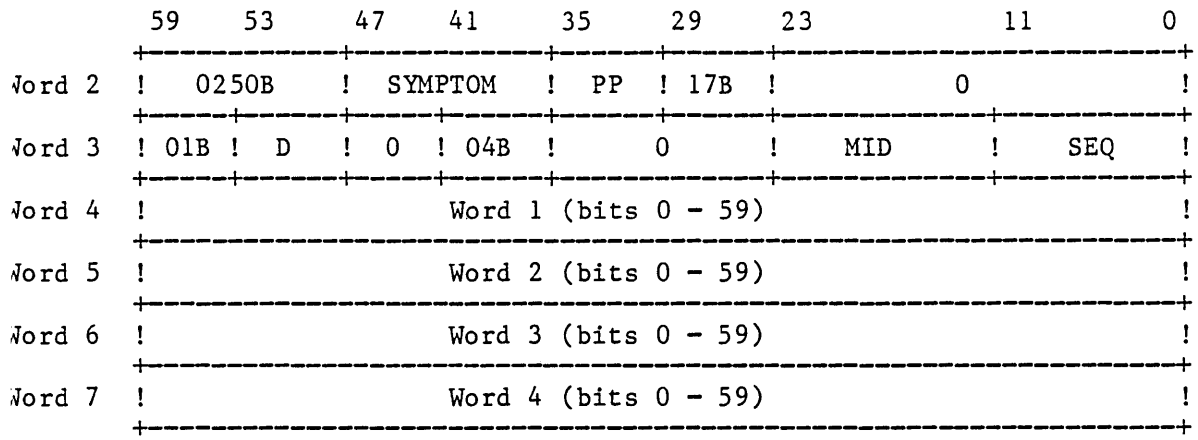


Continuation message 7.

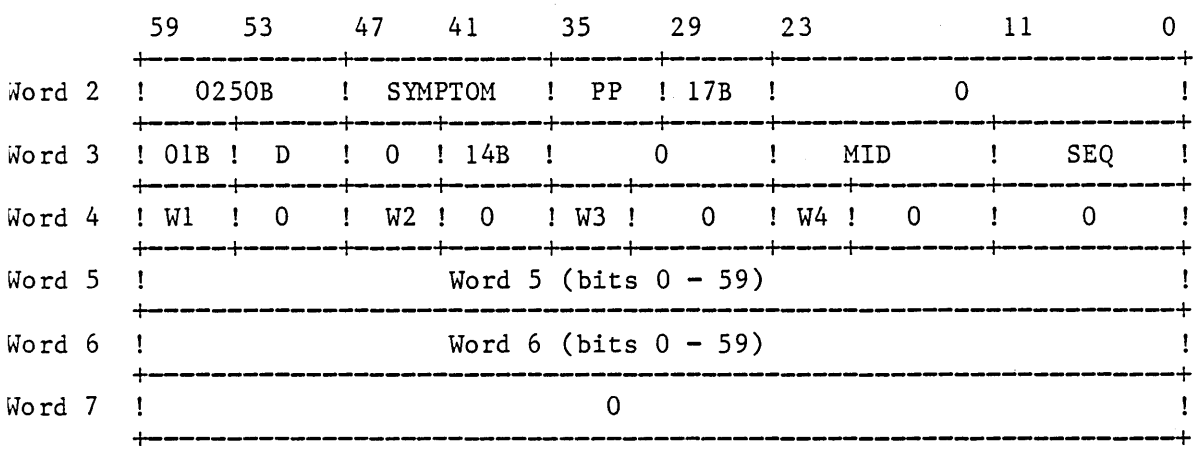


ese messages are issued for DFT revision levels greater than 3.

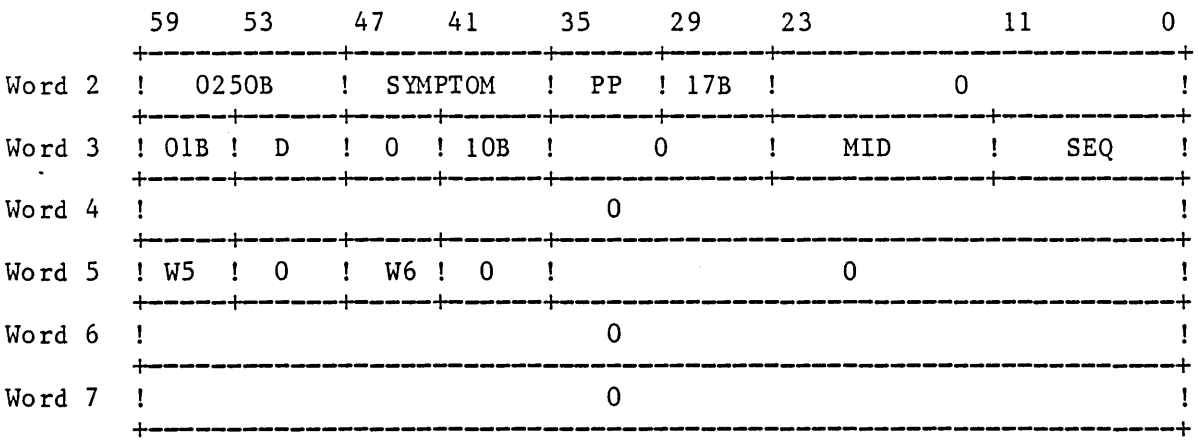
ntinuation message 8.



ntinuation message 9.



ntinuation message 10.



Field	Location	Description
SYMPTOM	47-36	Symptom code. 1005B Retry in progress error. 1006B Repaired error (Control memory has been successfully reloaded). 1007B Unrepaired error (Control memory has not been successfully reloaded). 1034B Retry exhausted. 1035B Hourly retry threshold exceeded.
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
C1	59-56	Element identifier (bits 60 - 63).
C2	47-44	Status summary (bits 60 - 63).
C3	35-32	Options installed (bits 60 -63).
C4	23-20	Dependent environment control (bits 60 - 63).
C5	59-56	Processor fault status 0 (bits 60 - 63).
C6	47-44	Processor fault status 1 (bits 60 - 63).
C7	35-32	Processor fault status 2 (bits 60 - 63).
C8	23-20	Processor fault status 3 (bits 60 - 63).
C9	59-56	Processor fault status 4 (bits 60 - 63).
C10	47-44	Processor fault status 5 (bits 60 - 63).
C11	35-32	Processor fault status 6 (bits 60 - 63).
C12	23-20	Processor fault status 7 (bits 60 - 63).
C13	59-56	Processor fault status 8 (bits 60 - 63).
C14	47-44	Processor fault status 9 (bits 60 - 63).
C15	35-32	Processor fault status 10 (bits 60 - 63).
C16	23-20	Processor fault status 11 (bits 60 - 63).
C17	59-56	Processor fault status 12 (bits 60 - 63).
C18	47-44	Processor fault status 13 (bits 60 - 63).
C19	35-32	Processor fault status 14 (bits 60 - 63).
C20	23-20	Processor fault status 15 (bits 60 - 63).
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W4	23-20	Word 4 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W5	59-56	Word 5 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W6	47-44	Word 6 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

Field	Location	Description
M1	59-48	Bit mask to identify control memory.
M2	47-32	Bit mask reply from 2AP (reload was successful if bit set in M1 is clear).
TC	31-16	Type code of control memory with error.
ADDR	15-0	Failing address (if known). If unknown, ADDR = FFFF (16). In this case, the contents will be 0.
F1	59-56	Contents of failing address (bits 60 - 63).
F2	47-44	Contents of failing address after reload (bits 60 - 63).
F3	35-32	Retry P Counter (bits 28 - 31).
F4	23-20	Program Address register (bits 60 - 63).

MAINFRAME (180 CLASS MODELS)	MSGID 0250B
PROCESSOR DETECTED MALFUNCTION	SYMPTOM 1011B

This message is issued by 1AJ whenever a mode 20 error is detected for a job.

The first message has the following form.

	59–47	41–35	29–23	11–0
Word 2	0250B	1011B	PP / 17B	0
Word 3	0	0 / 0	0	MID / 0
Word 4	Contents of RA + 0			
Word 5	Contents of location (P)			

Field	Location	Description
PP	35–30	PP that detected the error.
MID	23–12	Machine identifier.
SEQ	11–0	DFT sequence number.

MAINFRAME (180 CLASS MODELS)	MSGID 0250B
PROCESSOR STATE ERROR	SYMPTOM 1012B

This message is issued by 1AJ whenever a mode 67 error is detected for a job.

The first message has the following form.

	59–47	41–35	29–23	11–0
Word 2	0250B	1012B	PP / 17B	0
Word 3	0	0 / 0	0	MID / 0
Word 4	Contents of RA + 0			
Word 5	Contents of location (P)			

Field	Location	Description
PP	35–30	PP that detected the error.
MID	23–12	Machine identifier.
SEQ	10–0	DFT sequence number.

MAINFRAME (180 CLASS MODELS)	MSGID 0250B
ENVIRONMENT WARNING	SYMPTOM 3401B

The EID registers for elements with long warning status set are present in this message. The field is zero for elements without a long warning status. Bits 0 - 3 of the EID registers are not logged. The entries in this message are in one-to-one correspondence with the entries in the Mainframe Reconfiguration Table (MRT).

The first message has the following form.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	3401B	PP	17B	0
Word 3	0 D	0 04B	0	MID	SEQ
Word 4	H1	H2	H3	H4	
Word 5	Element 1 EID (bits 4 - 63)				
Word 6	Element 2 EID (bits 4 - 63)				
Word 7	Element 3 EID (bits 4 - 63)				

Continuation message 1.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	3401B	PP	17B	0
Word 3	0 D	0 14B	0	MID	SEQ
Word 4	Element 4 EID (bits 4 - 63)				
Word 5	H5	H6	H7	H8	
Word 6	Element 5 EID (bits 4 - 63)				
Word 7	Element 6 EID (bits 4 - 63)				

Continuation message 2.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	3401B	PP	17B	0
Word 3	0 D	0 10B	0	MID	SEQ
Word 4	Element 7 EID (bits 4 - 63)				
Word 5	Element 8 EID (bits 4 - 63)				
Word 6	0				
Word 7	0				

These messages are issued for DFT revised levels greater than 3.

Continuation message 3.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	01B D	0 04B	0	MID	SEQ
Word 4	Word 1 (bits 0 - 59)				
Word 5	Word 2 (bits 0 - 59)				
Word 6	Word 3 (bits 0 - 59)				
Word 7	0				

Continuation message 4.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	SYMPTOM	PP	17B	0
Word 3	01B D	0 10B	0	MID	SEQ
Word 4	W1 0	W2 0	W3 0	0	
Word 5	0				
Word 6	0				
Word 7	0				

Field	Location	Description
PP	35-30	PP in which 1MB is running.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53-48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (MODELS 810/830)	MSGID 0250B
LONG POWER WARNING	SYMPTOM 3402B

This message is issued for models 810/830 with the battery backup option. The EID registers for those elements with long warning status set are present in this message. The field is zero for elements without a long warning status. Bits 0 - 3 of the EID registers are not logged. The entries in this message are in one-to-one correspondence with the entries in the Hardware Descriptor Table (HDT).

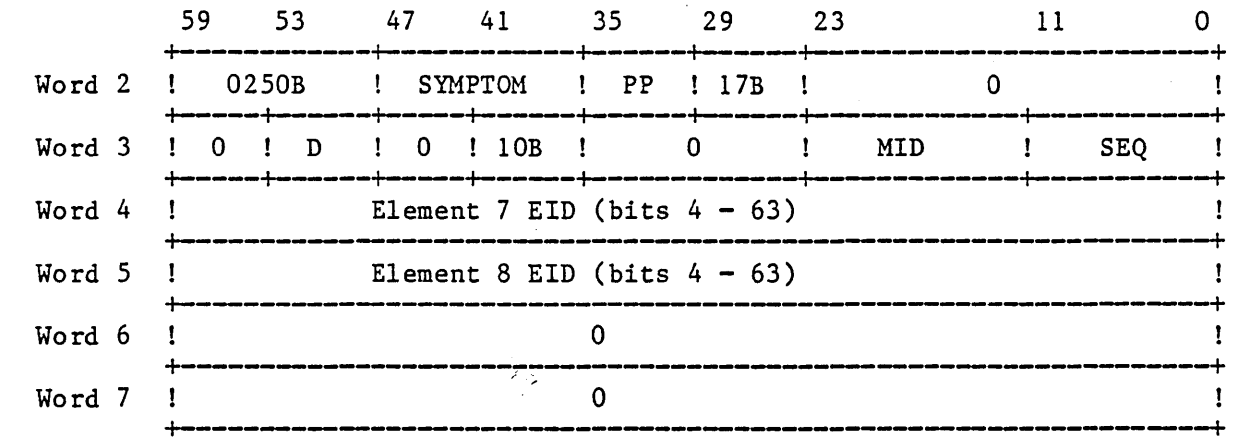
The first message has the following form.

	59 53	47 41	35 29	23 11	0
Word 2	0250B	3402B	PP 17B	0	
Word 3	0 D	0 04B	0	MID	SEQ
Word 4	H1	H2	H3	H4	
Word 5	Element 1 EID (bits 4 - 63)				
Word 6	Element 2 EID (bits 4 - 63)				
Word 7	Element 3 EID (bits 4 - 63)				

Continuation message 1.

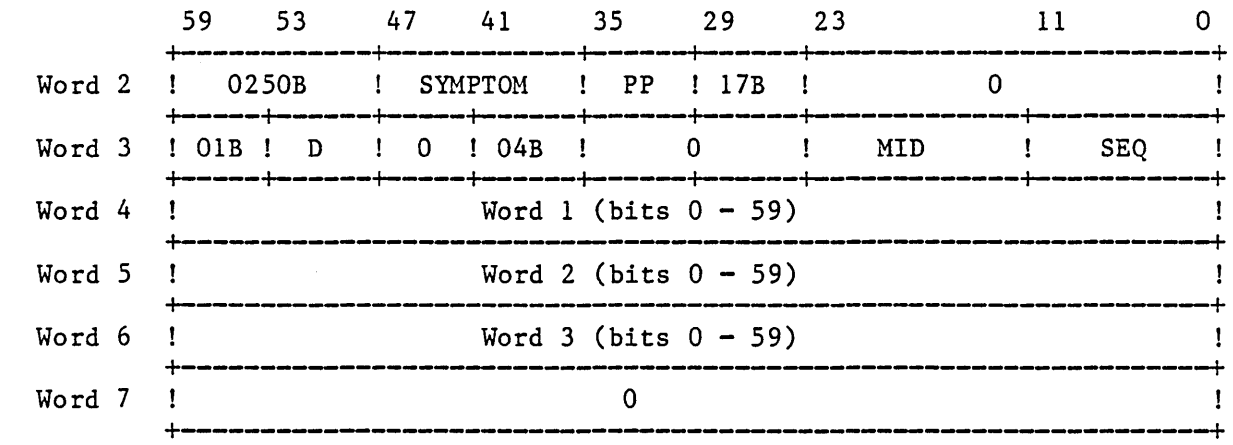
	59 53	47 41	35 29	23 11	0
Word 2	0250B	3402B	PP 17B	0	
Word 3	0 D	0 14B	0	MID	SEQ
Word 4	Element 4 EID (bits 4 - 63)				
Word 5	H5	H6	H7	H8	
Word 6	Element 5 EID (bits 4 - 63)				
Word 7	Element 6 EID (bits 4 - 63)				

Continuation message 2.

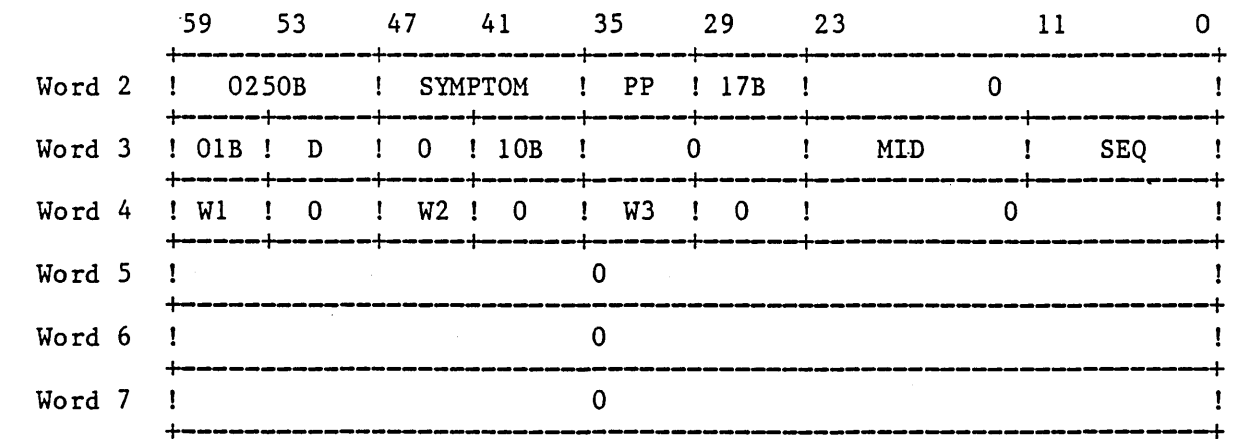


These messages are issued for DFT revision levels greater than 3.

Continuation message 3.



Continuation message 4.



Field	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53-48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (180 CLASS MODELS)	MSGID 0250B
SHORT POWER WARNING	SYMPTOM 3403B

The EID registers for those elements with short warning status set are present in this message. The field is zero for elements without a short warning status. Bits 0 - 3 of the EID registers are not logged. The entries in this message are in one-to-one correspondence with the entries in the Mainframe Reconfiguration Table (MRT).

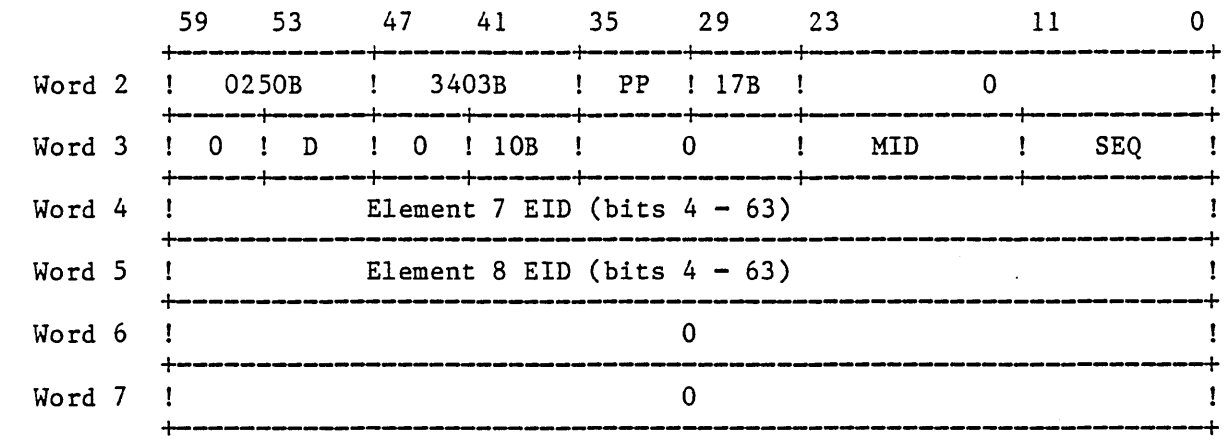
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	3403B	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	H1	H2	H3	H4	
Word 5	Element 1 EID (bits 4 - 63)				
Word 6	Element 2 EID (bits 4 - 63)				
Word 7	Element 3 EID (bits 4 - 63)				

Continuation message 1.

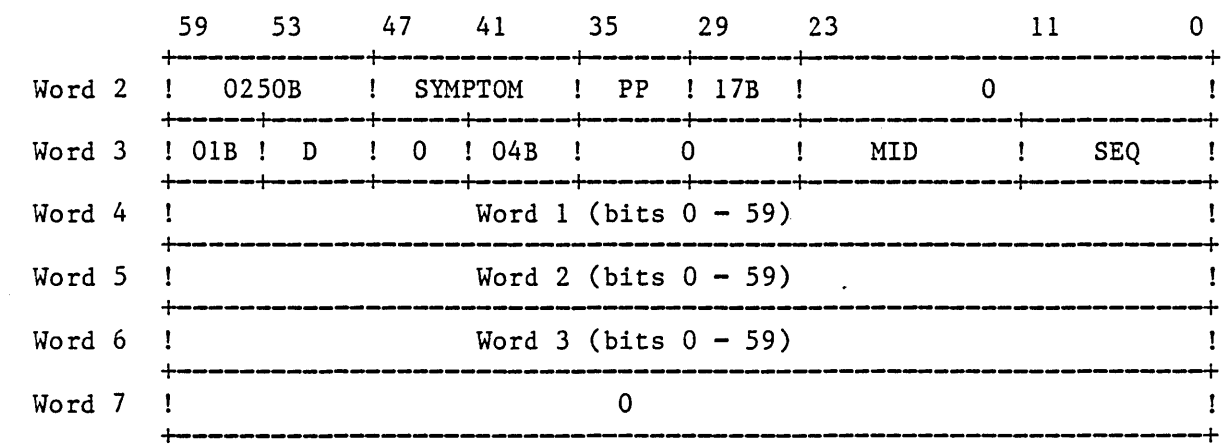
	59–53	47–41	35–29	23–11	0
Word 2	0250B	3403B	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	Element 4 EID (bits 4 - 63)				
Word 5	H5	H6	H7	H8	
Word 6	Element 5 EID (bits 4 - 63)				
Word 7	Element 6 EID (bits 4 - 63)				

Continuation message 2.

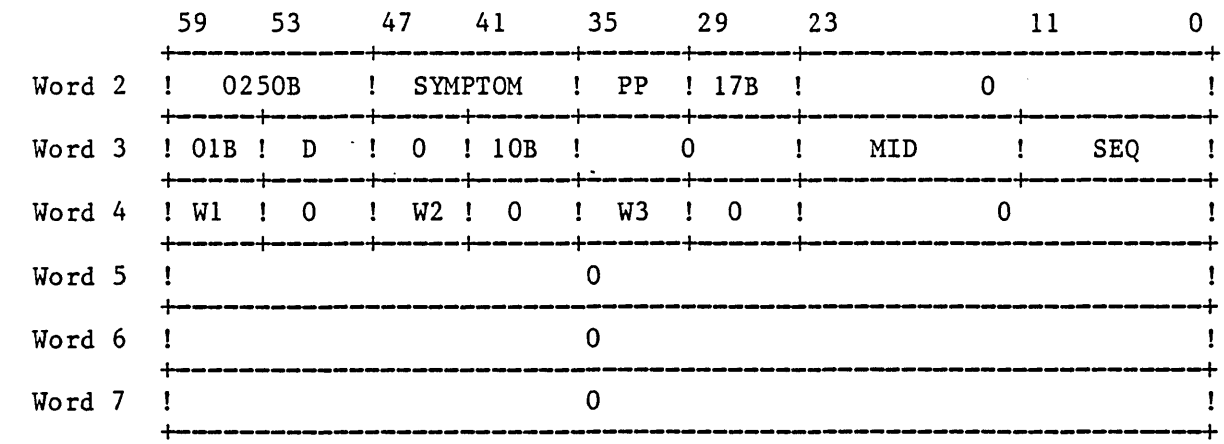


These messages are issued for DFT revision levels greater than 3.

Continuation message 3.



Continuation message 4.



Field	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53-48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (180 CLASS MODELS)	MSGID 0250B
ENVIRONMENT WARNING CLEAR	SYMPTOM 3404B

This message is issued when all warnings clear (and the original warning is an environmental warning). The EID registers of all elements that receive long warning status during the interval are present. The field is zero for elements that do not receive long warning status. The entries in this message are in one-to-one correspondence with the entries in the Mainframe Reconfiguration Table (MRT).

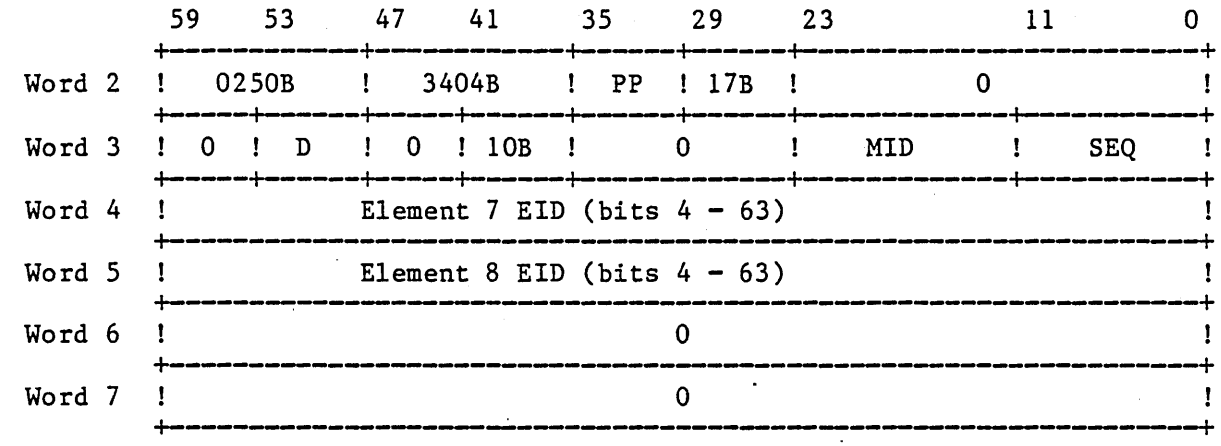
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	3404B	PP / 17B	0	
Word 3	0 / D	0 / 04B	0	MID	SEQ
Word 4	H1	H2	H3	H4	
Word 5	Element 1 EID (bits 4 - 63)				
Word 6	Element 2 EID (bits 4 - 63)				
Word 7	Element 3 EID (bits 4 - 63)				

Continuation message 1.

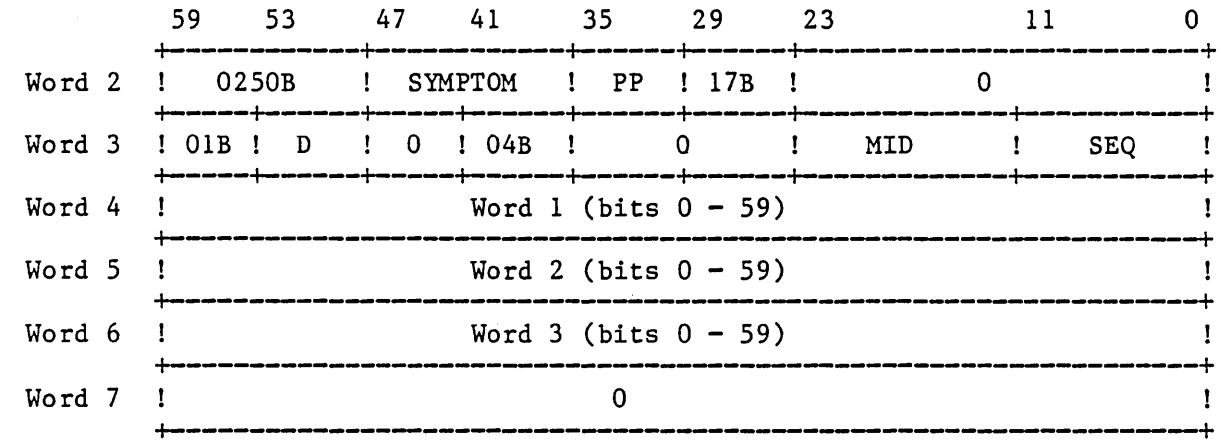
	59–53	47–41	35–29	23–11	0
Word 2	0250B	3404B	PP / 17B	0	
Word 3	0 / D	0 / 14B	0	MID	SEQ
Word 4	Element 4 EID (bits 4 - 63)				
Word 5	H5	H6	H7	H8	
Word 6	Element 5 EID (bits 4 - 63)				
Word 7	Element 6 EID (bits 4 - 63)				

Continuation message 2.

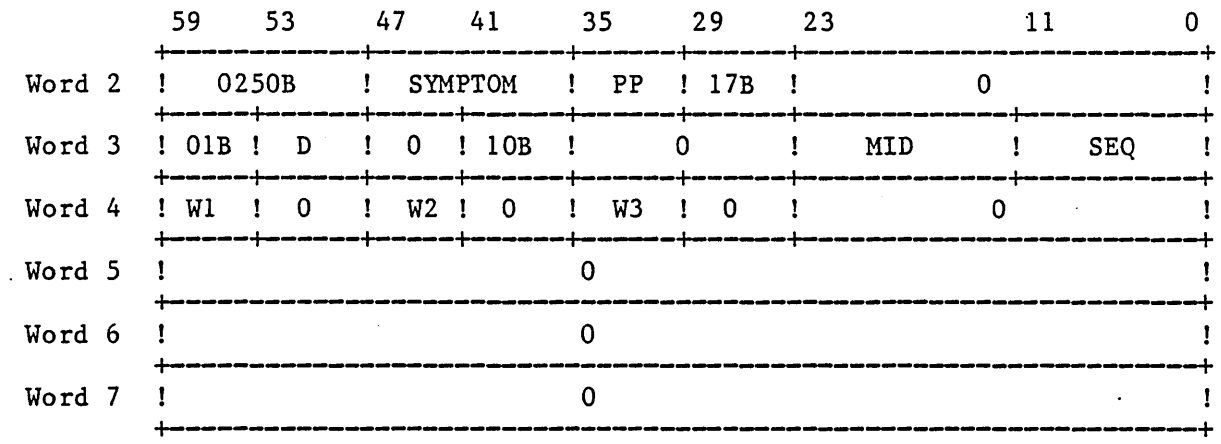


These messages are issued for DFT revision levels greater than 3.

Continuation message 3.



Continuation message 4.



Field	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53-48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (MODELS 810/830)	MSGID 0250B
LONG POWER WARNING CLEAR	SYMPTOM 3405B

This message is issued for models 810/830 with the battery backup option. This message is issued when all warnings clear (and the original warning is a long power warning). The EID registers of all elements that receive long warning status during the interval are present. The field is zero for elements that do not receive long warning status. The entries in this message are in one-to-one correspondence with the entries in the Maintrame Reconfiguraton Table (MRT).

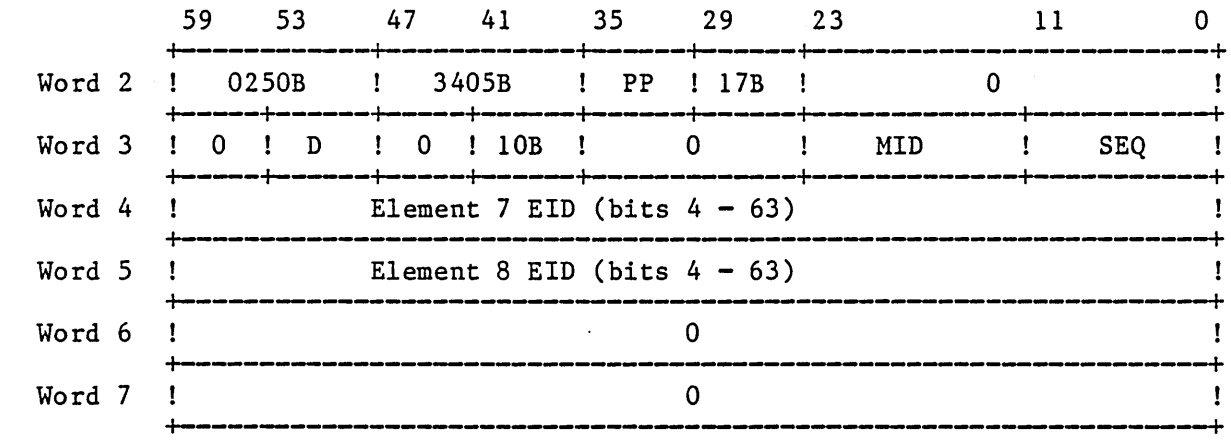
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	3405B	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	H1	H2	H3	H4	
Word 5	Element 1 EID (bits 4 - 63)				
Word 6	Element 2 EID (bits 4 - 63)				
Word 7	Element 3 EID (bits 4 - 63)				

Continuation message 1.

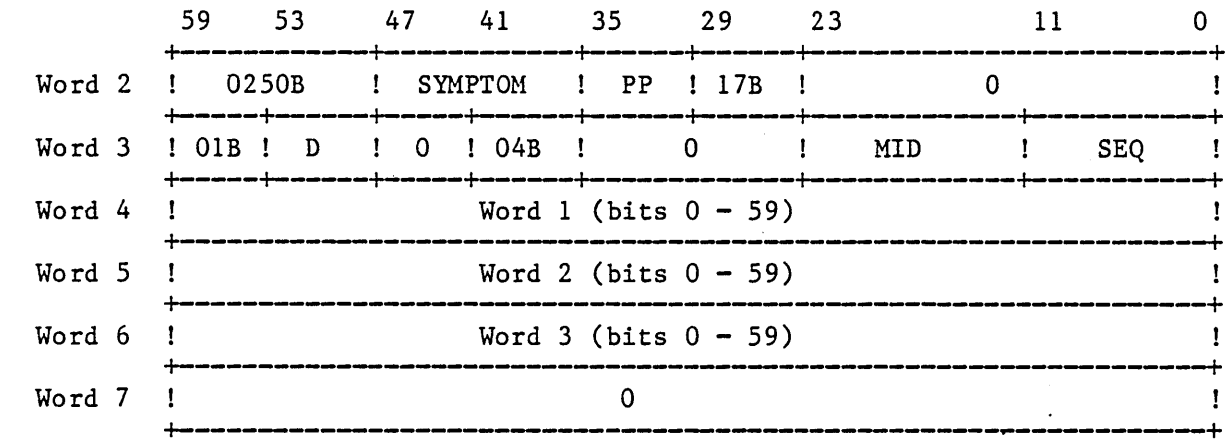
	59–53	47–41	35–29	23–11	0
Word 2	0250B	3405B	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	Element 4 EID (bits 4 - 63)				
Word 5	H5	H6	H7	H8	
Word 6	Element 5 EID (bits 4 - 63)				
Word 7	Element 6 EID (bits 4 - 63)				

Continuation message 2.

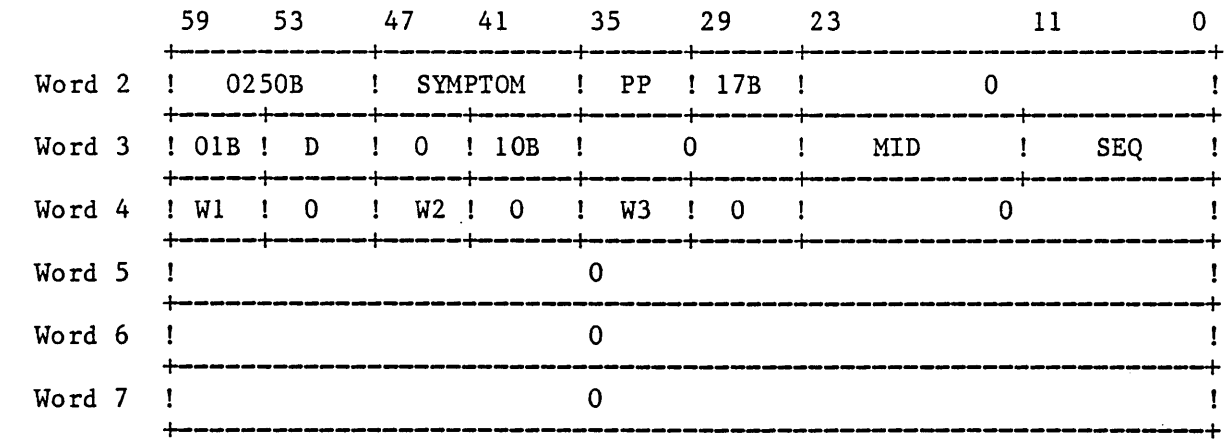


These messages are issued for DFT revision levels greater than 3.

Continuation message 3.



Continuation message 4.



Field	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53-48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (180 CLASS MODELS)	MSGID 0250B
SHORT POWER WARNING CLEAR	SYMPTOM 3406B

This message is issued when all warnings clear (and the original warning is a short power warning). The EID registers of all elements that receive short warning status during the interval are present. The field is zero for elements that do not receive short warning status. The entries in this message are in one-to-one correspondence with the entries in the Mainframe Reconfiguration Table (MRT).

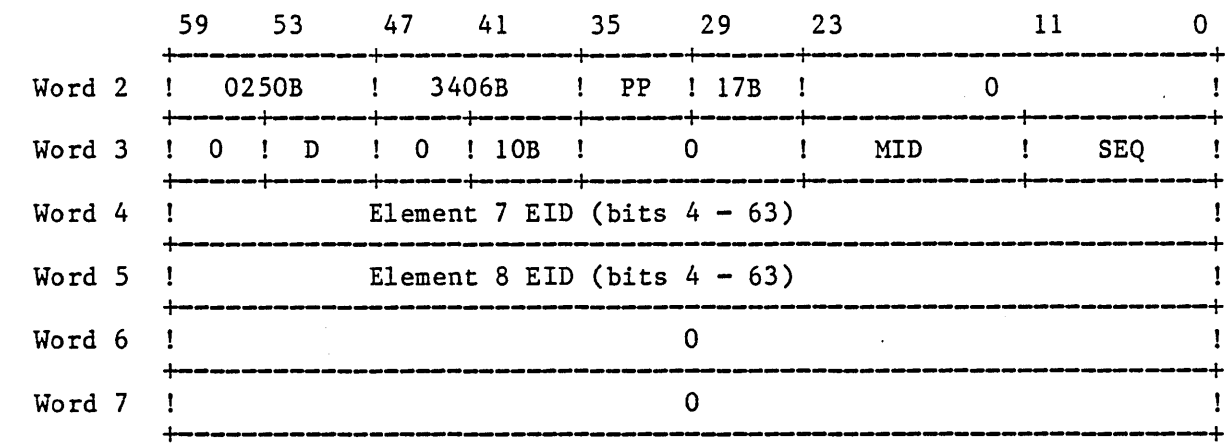
The first message has the following form.

	59–53	47–41	35–29	23–11	0
Word 2	0250B	3406B	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	H1	H2	H3	H4	
Word 5	Element 1 EID (bits 4 - 63)				
Word 6	Element 2 EID (bits 4 - 63)				
Word 7	Element 3 EID (bits 4 - 63)				

Continuation message 1.

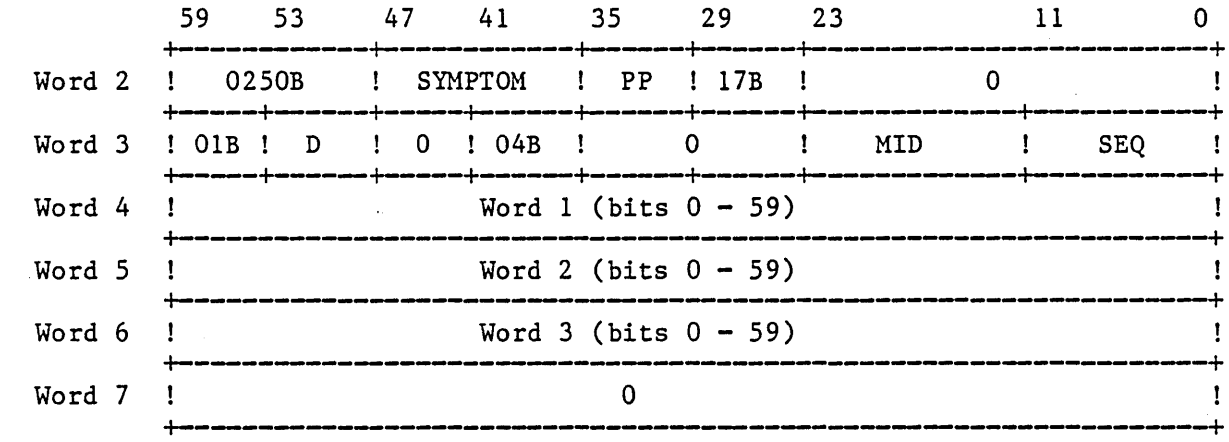
	59–53	47–41	35–29	23–11	0
Word 2	0250B	3406B	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	Element 4 EID (bits 4 - 63)				
Word 5	H5	H6	H7	H8	
Word 6	Element 5 EID (bits 4 - 63)				
Word 7	Element 6 EID (bits 4 - 63)				

Continuation message 2.

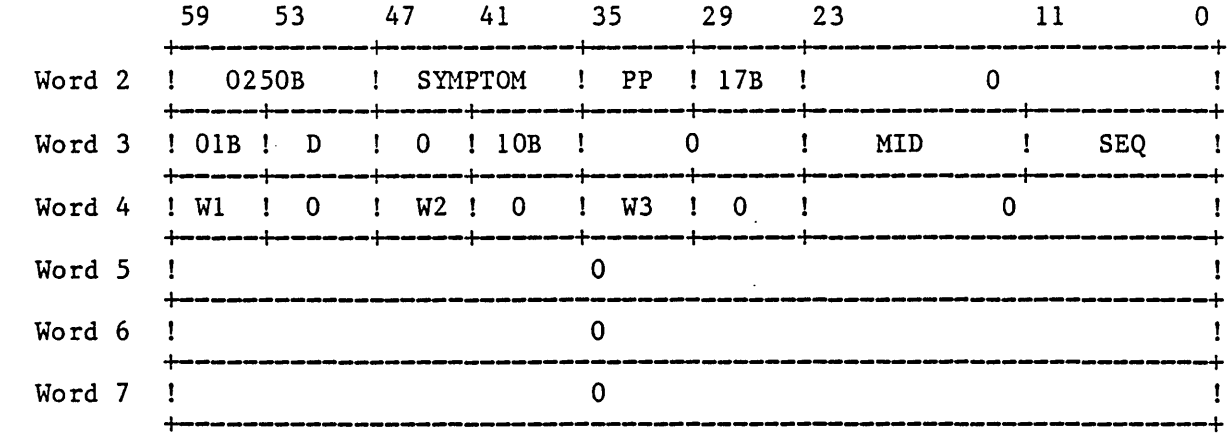


These messages are issued for DFT revision levels greater than 3.

Continuation message 3.



Continuation message 4.



Field	Location	Description
PP	35-30	PP that detected the error.
MID	23-12	Machine identifier.
SEQ	11-0	Sequence number.
D	53-48	DFT revision level.
Hn		If element n has long warning status set, Hn is non-zero.
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (180 CLASS MODELS)	MSGID 0250B
MAINFRAME ELEMENT COUNTER BUFFER	SYMPTOM 3407B

This message is issued at each top-of-hour. The entries in this message are in one-to-one correspondence with the entries in the Hardware Descriptor Table (HDT).

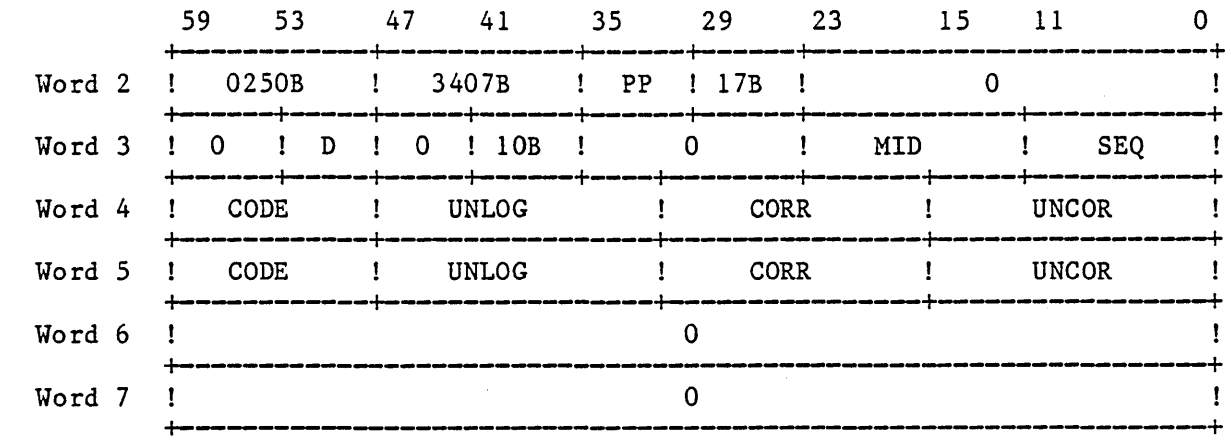
The first message has the following form.

	59–53	47–41	35–29	23–15	11–0
Word 2	0250B	3407B	PP	17B	0
Word 3	0	D	0	04B	0	MID	SEQ
Word 4	CODE	UNLOG	CORR	UNCOR
Word 5	CODE	UNLOG	CORR	UNCOR
Word 6	CODE	UNLOG	CORR	UNCOR
Word 7	CODE	UNLOG	CORR	UNCOR

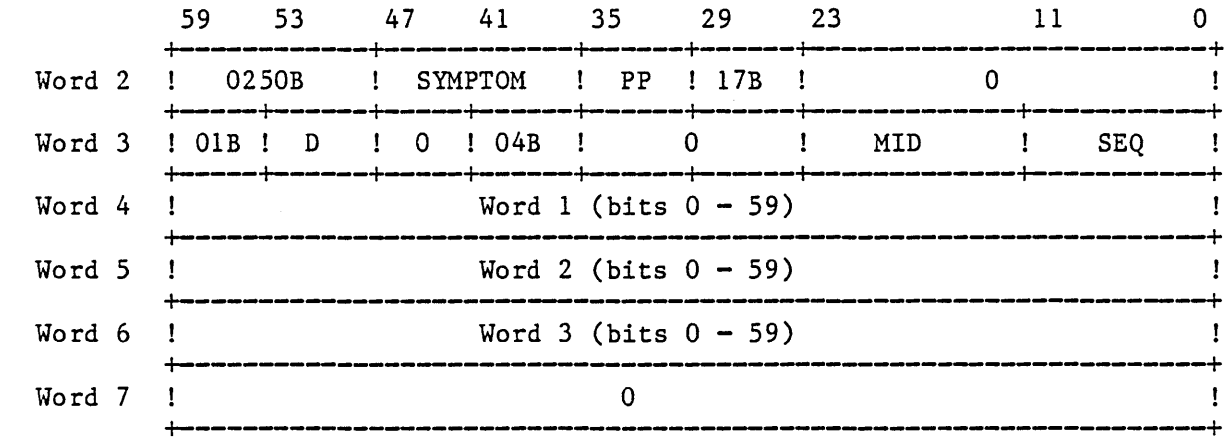
Continuation message 1.

	59–53	47–41	35–29	23–15	11–0
Word 2	0250B	3407B	PP	17B	0
Word 3	0	D	0	14B	0	MID	SEQ
Word 4	CODE	UNLOG	CORR	UNCOR
Word 5	CODE	UNLOG	CORR	UNCOR
Word 6	CODE	UNLOG	CORR	UNCOR
Word 7	CODE	UNLOG	CORR	UNCOR

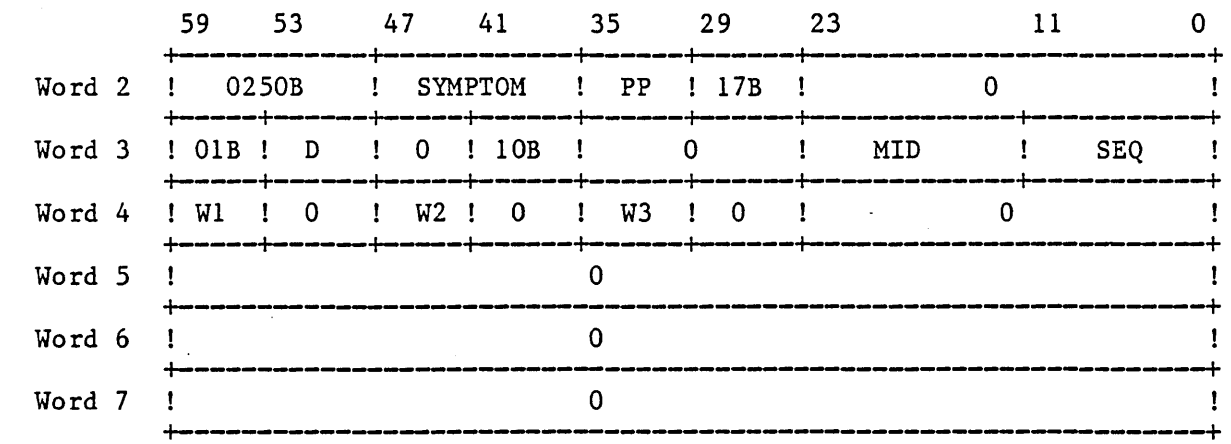
Continuation message 2.



Continuation message 3.



Continuation message 4.



Field	Location	Description
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEG	11-0	DFT sequence numbers.
CODE	59-48	Element identification code. This is the CTI identifier code (IOU= 0, memory =1, processor = 2).
UNLOG	47-32	The unlogged error counter for the element.
CORR	31-16	The corrected error counter for the element.
UNCOR	15-0	The uncorrected error counter for the element.
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

MAINFRAME (180 CLASS MODELS)	MSGID 0250B
SECDED ID TABLE	SYMPTOM 3410B

This message is issued at each top-of-hour. There is one entry for each entry present in the SECDED ID Table. If no SECDED errors occurred in the hour, this message will not be issued.

The first message has the following form.

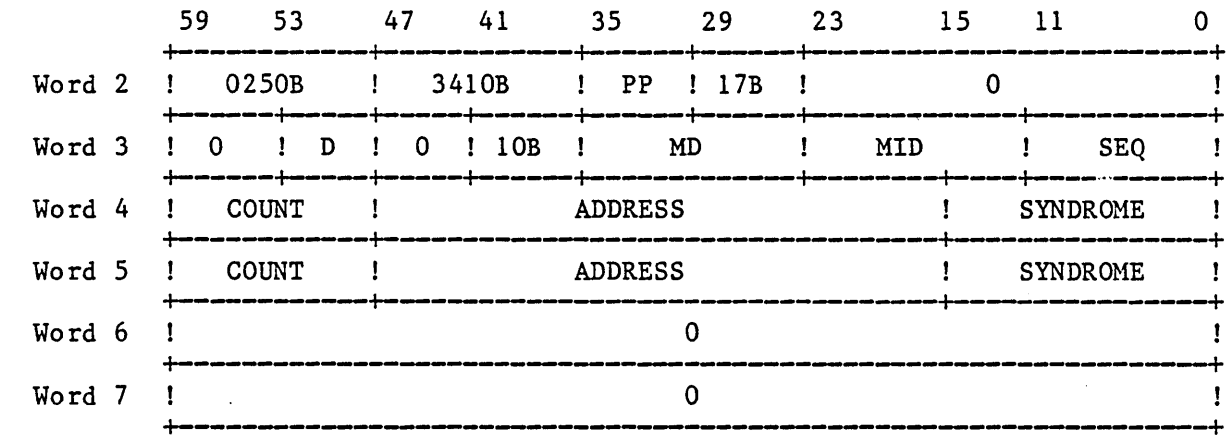
	59–53	47–41	35–29	23–15	11–0
Word 2	0250B	3407B	PP	17B	0
Word 3	0	D	0	04B*	0	MID	SEQ
Word 4	COUNT	ADDRESS			SYNDROME
Word 5	COUNT	ADDRESS			SYNDROME
Word 6	COUNT	ADDRESS			SYNDROME
Word 7	COUNT	ADDRESS			SYNDROME

Continuation message, if necessary.

	59–53	47–41	35–29	23–15	11–0
Word 2	0250B	3407B	PP	17B	0
Word 3	0	D	0	14B*	MD	MID	SEQ
Word 4	COUNT	ADDRESS			SYNDROME
Word 5	COUNT	ADDRESS			SYNDROME
Word 6	COUNT	ADDRESS			SYNDROME
Word 7	COUNT	ADDRESS			SYNDROME

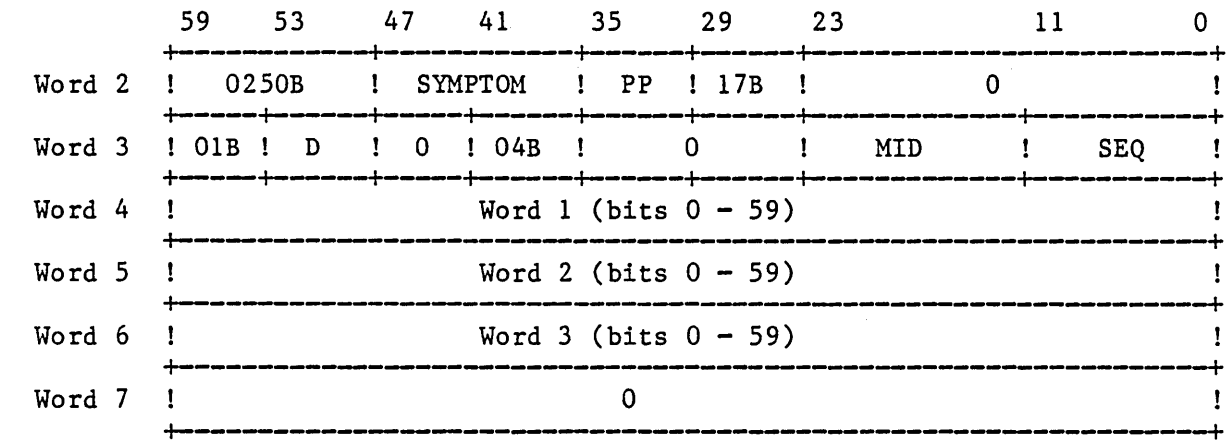
*This field is 10B if it is the last message.

Continuation message, if necessary.

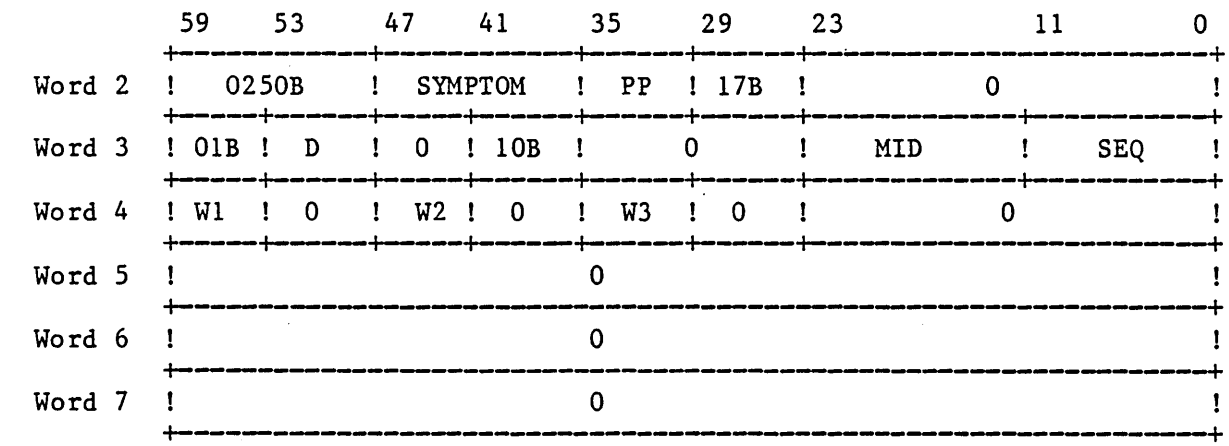


These messages are issued for DFT revision levels greater than 3.

Continuation message.

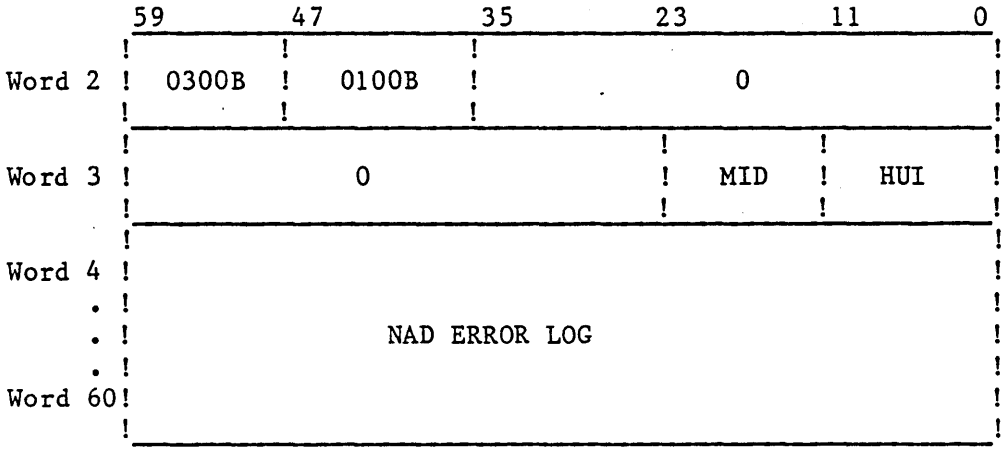


Continuation message.



Field	Location	Description
PP	35-30	PP that detected the error.
D	53-48	DFT revision level.
MID	23-12	Machine identifier.
SEQ	11-0	DFT sequence number.
MS	23-0	Memory size (bits 0 - 23 of the options installed register).
MD	35-24	Memory model number.
COUNT	59-48	Number of errors for this address during the past hour.
ADDRESS	47-16	Central memory address.
SYNDROME	15-0	Syndrome code.
W1	59-56	Word 1 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W2	47-44	Word 2 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)
W3	35-32	Word 3 (bits 60 - 63). (Data from DFT Supportive Status Buffer.)

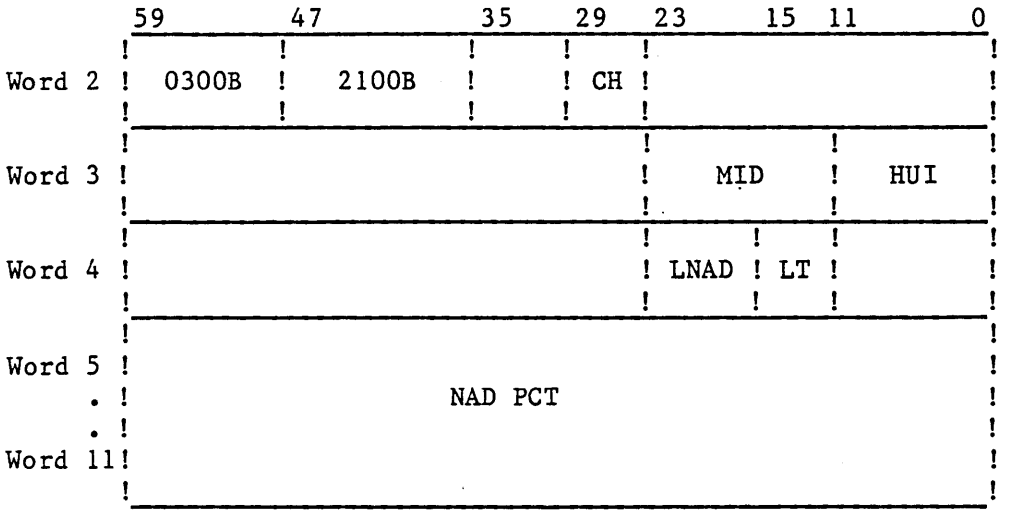
LOOSELY COUPLED NETWORKS	MSGID 0300B
LOCAL NAD ERROR LOG	SYMPTOM 0100B



Field	Word	Location	Description
MID	3	23-12	Machine identifier.
HUI	3	11-0	Hardware unique identifier.
NAD ERROR LOG	4-9	59-0	Device status table of local NAD (24 16-bit words).
	10	59-36	
	10	35-0	21 Local NAD error log entries.
	11-59	59-0	Each entry consists of 9 16-bit
	60	59-12	words.

See the 380-170 Network Access Device Hardware Reference Manual for the format of the NAD error log.

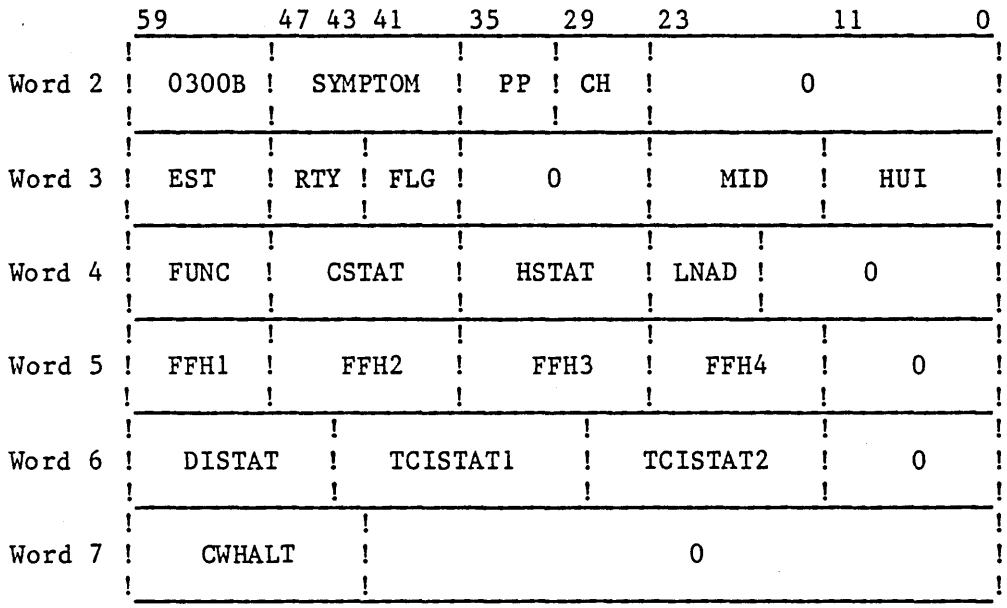
LOOSELY COUPLED NETWORKS	MSGID 0300B
LOCAL NAD CONNECTION ERROR	SYMPTOM 2100B



Field	Word	Location	Description
CH	2	29-24	Channel number.
MID	3	23-12	Machine identifier.
HUI	3	11-0	Hardware unique identifier.
LNAD	4	23-16	Local NAD address.
LT	4	15-12	Local trunk enables.
NAD PCT	5-10 11	59-0 59-52	Local NAD path control table (23 16-bit words).

See the 380-170 Network Access Device Hardware Reference Manual for the format of the NAD path control table.

LOOSELY COUPLED NETWORKS	MSGID 0300B
LOCAL NAD ERROR LOG	SYMPTOM 2101B, 2102B, 2110B-2117B, 2120B-2122B, 2140B-2146B, 2150B-2156B

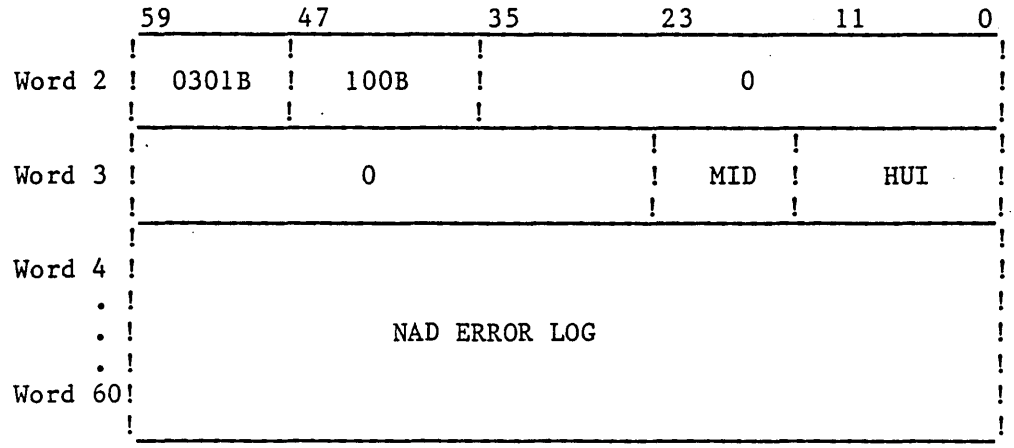


Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 2101B NAD hardware fault. 2102B NAD microcode disaster halt. 2110B Function time out. 2111B Channel inactive after activate. 2112B Date timeout. 2113B Prime timeout. 2114B Flag timeout. 2115B Transfer error. 2116B Abnormal path status. 2117B Abnormal response code. 2120B Control message length error. 2121B Parameter length error. 2122B Transfer length error.

Field	Word	Location	Description (Continued)
			214xB Local read error (convert mode). 215xB Local write error (convert mode). 0 Block error. 1 Host ABN error. 2 Block too large. 3 Data length error. 4 Block fragment with EOR/EOT. 5 Network ABN error. 6 Block not 60-bit multiple.
PP	2	35-30	PP number.
CH	2	29-24	Channel number.
EST	3	59-48	EST ordinal.
RTY	3	47-42	Retry count.
FLG	3	41-36 (37) (36)	Flag field. 0 DISTAT, TCISTAT1, TCISTAT2, CWHALT invalid. 1 DISTAT, TCISTAT1, TCISTAT2, CWHALT valid. 0 Recovered error. 1 Unrecovered error.
MID	3	23-12	Machine identifier.
HUI	3	11-0	Hardware unique identifier. Set to 7777B if invalid.
FUNC	4	59-48	Initial function.
CSTAT	4	47-36	Initial controlware status.
HSTAT	4	35-24	Initial hardware status.
LNAD	4	23-16	Local NAD address.
FFH1	5	59-48	Flag function history.
FFH2	5	47-36	Flag function history.
FFH3	5	35-24	Flag function history.
FFH4	5	23-12	Flag function history.

Field	Word	Location	Description (Continued)
DISTAT	6	59-44	Device interface status.
TCISTAT1	6	43-28	Trunk control interface status I.
TCISTAT2	6	27-12	Trunk control interface status II.
CWHALT	7	59-44	Controlware halt code.

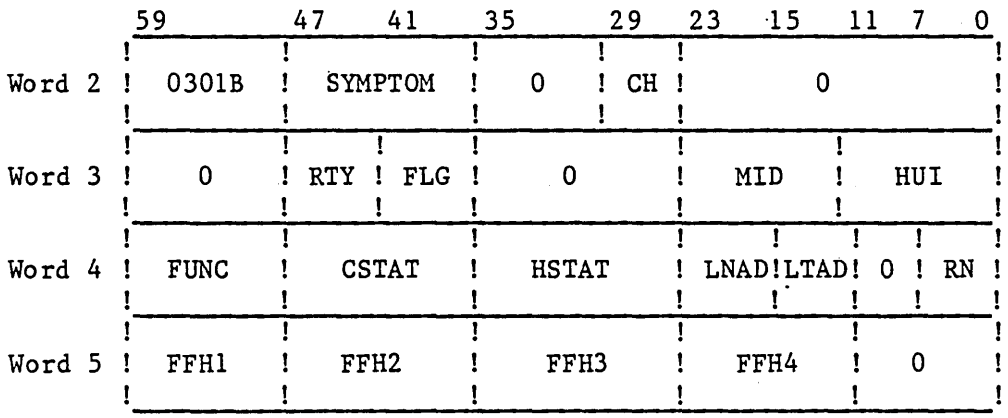
LOOSELY COUPLED NETWORKS	MSGID 0301B
REMOTE NAD ERROR LOG	SYMPTOM 0100B



Field	Word	Location	Description
MID	3	23-12	Machine identifier.
HUI	3	11-0	Hardware unique identifier.
NAD ERROR LOG	4-9	59-0	Device status table of remote NAD (24, 16-bit words).
	10	59-36	
	10	35-0	21 remote NAD error log entries. Each entry consists of 9, 16-bit words.
	11-59	59-0	
	60	59-12	

See the 380-170 Network Access Device Hardware Reference Manual for the format of the NAD error log.

LOOSELY COUPLED NETWORKS	MSGID 0301B
REMOTE NAD ERROR	SYMPTOM 2160B-2164B, 2170B-2176B



Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 2160B Header length error. 2161B Bad data block length. 2162B Bad PRU data block. 2163B Abnormal response. 2164B Connect in progress timeout. 2170B Block error. 2171B Host ABN error. 2172B Block too large. 2173B Data length error. 2174B Block fragment without EOR/EOT. 2175B Network ABN error. 2176B Block not 60-bit multiple.
CH	2	29-24	Channel number.
RTY	3	47-42	Retry count.
FLG	3	41-36 (36)	Flag field. 0 Recovered error. 1 Unrecovered error.
MID	3	23-12	Machine identifier.
HUI	3	11-0	Hardware unique identifier. Set to 7777B if invalid.
FUNC	4	59-48	Initial function code.

Field	Word	Location	Description (Continued)
CSTAT	4	47-36	Initial controlware status.
HSTAT	4	35-24	Initial hardware status.
LNAD	4	23-16	Local NAD address.
LTAD	4	15-12	Local trunk enables.
RN	4	7-0	Remote NAD address.
FFH1	5	59-48	Flag function history.
FFH2	5	47-36	Flag function history.
FFH3	5	35-24	Flag function history.
FFH4	5	23-12	Flag function history.

MAP III/MAP IV	MSGID 0320B
MAP ERRORS	SYMPTOM 0101B - 0113B

The following BML message is issued by the MSSI driver MP3.

	59–48	47–36	35–30	29–24	23–12	11–6	5–0
Word 2	0320B	SYMPTOM	PP	CH	0	0	A/B
Word 3	EST	0	0		MID	0	
Word 4	ST0	ST1	ST2		ST3	ST4	
Word 5	ST5	ST6	ST7		0	0	

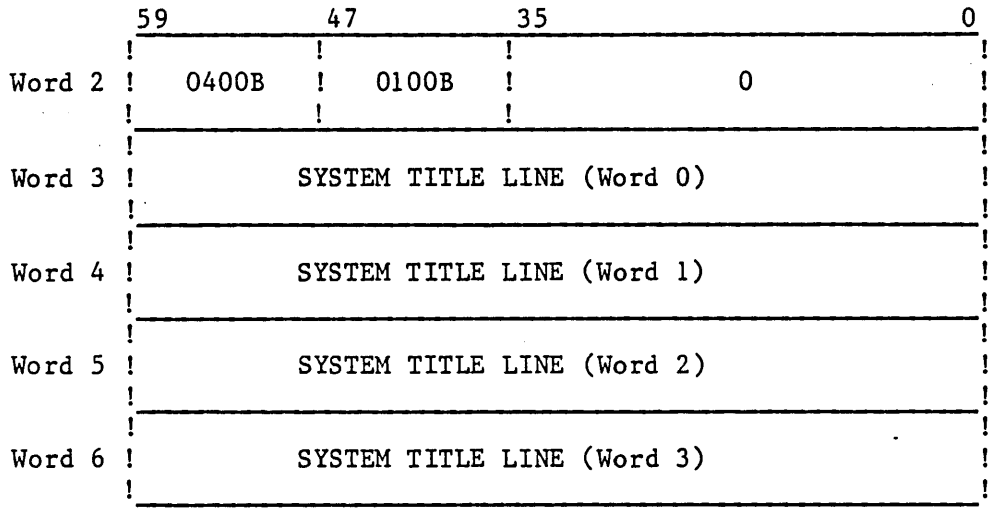
Field	Location	Description
SYMPTOM	47–36	Symptom code. 0101B No response to function. 0102B Fatal MAP or system error. 0103B Checkword or channel parity error. 0104B Channel full after output. 0105B Timeout on channel input. 0106B Timeout on channel output. 0107B Channel full before output. 0110B Channel active before function. 0111B Function busy timeout. 0112B Channel empty before input. 0113B Parity error in one or more MAP memories or ECS/ESM.
PP	35–30	The PP from which the MAP driver, MP3, detected the error.
Ch	29–24	Number of the channel connected to the MAP.
A/B	5–0	The MAP access number. 1 Access A 2 Access B
EST	59–48	Est ordinal of the MAP.

Field	Location	Description (Continued)
MID	23-12	Machine identifier of the mainframe connected to the MAP.
ST0	59-48	MAP hardware status word 0.
ST1	47-36	MAP hardware status word 1.
ST2	35-24	MAP hardware status word 2.
ST3	23-12	MAP hardware status word 3.
ST4	11-0	MAP hardware status word 4.
ST5	59-48	MAP hardware status word 5.
ST6	47-36	MAP hardware status word 6.
ST7	35-24	MAP hardware status word 7.

Refer to the MAP Field Maintenance Manual for detailed information on the MAP status definitions.

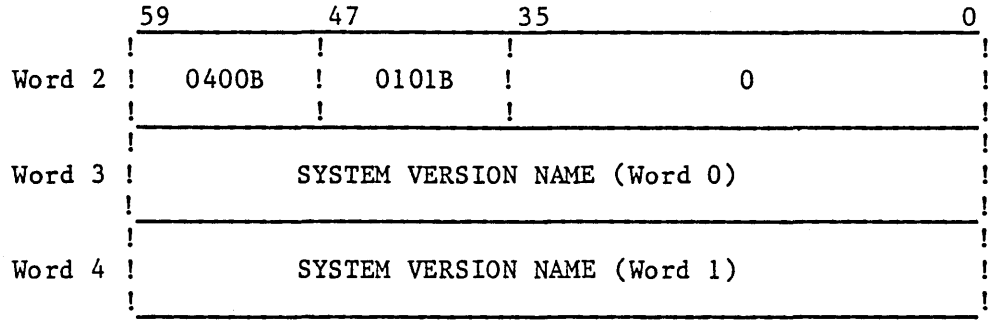
SOFTWARE INITIALIZATION	MSGID 0400B
SYSTEM TITLE	SYMPTOM 0100B

The following message is issued whenever a BML is created or recovered.



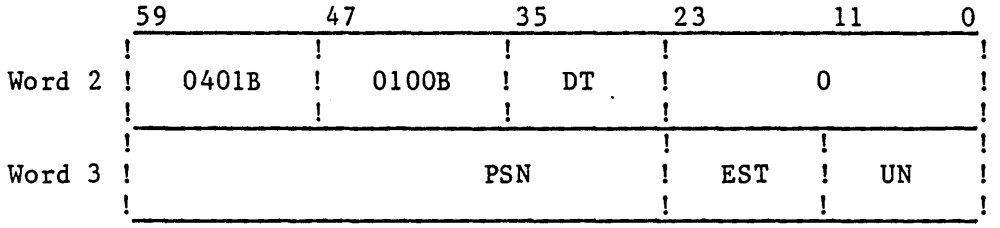
SOFTWARE INITIALIZATION	MSGID 0400B
SYSTEM VERSION	SYMPTOM 0101B

The following message is issued whenever a BML is created or recovered.



HARDWARE INITIALIZATION	MSGID 0401B
PACK SERIAL NUMBER	SYMPTOM 0100B

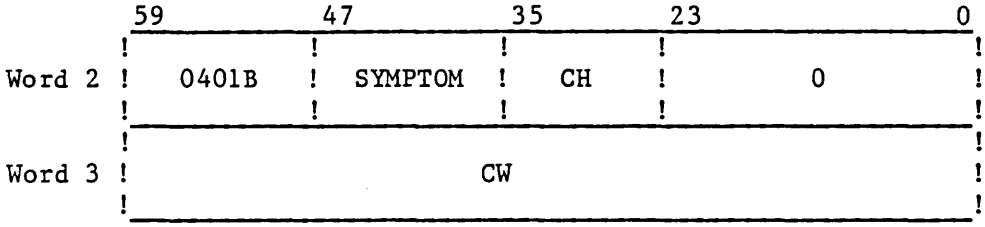
The following message is issued for each mass storage pack whenever a BML is created or recovered.



Field	Word	Location	Description
DT	2	35-24	Device mnemonic. Two display code characters.
PSN	3	59-24	Pack serial number in display code left justified, blank filled.
EST	3	23-12	EST ordinal in binary format.
UN	3	11-0	Unit number in binary format.

HARDWARE INITIALIZATION	MSGID 0401B
CONTROLWARE REVISION 7x5x CONTROLLERS, 834/836/ FSC/CCC ADAPTERS	SYMPTOM 0101B, 0102B, 0103B

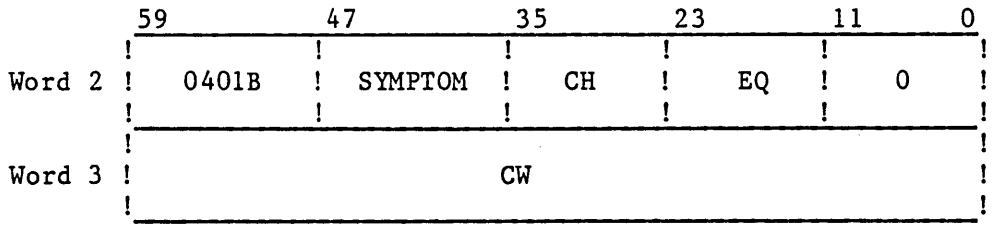
The following message applies to 7x5x controllers, 834/836 adapters, FSC adapters, and CCC adapters.



Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0101B Controlware level. This message is logged after every deadstart and everytime the error log or BML is terminated. 0102B Operator initiated load. This message is logged whenever LOADBC is initiated by the operator. 0103B System initiated load. This message is logged whenever LOADBC is initiated by the operating system.
CH	2	35-24	Channel used to access the controller.
CW	3	59-0	Controlware revision level in display code. ********** if LOADBC cannot find the revision level.

HARDWARE INITIALIZATION	MSGID 0401B
COS REVISION LEVEL	SYMPTOM 0104B, 0105B, 0106B

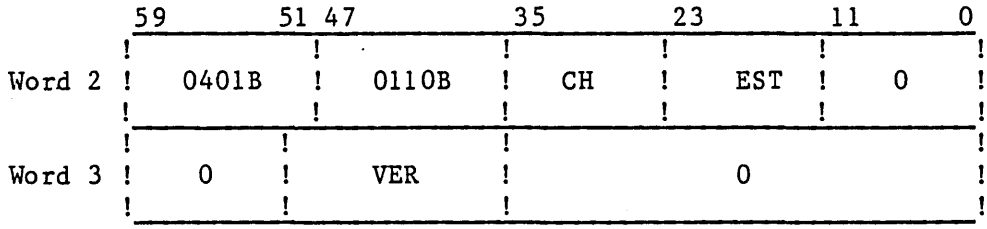
The following message applies to the ISD control module.



Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0104B COS level. This message is logged after every deadstart and everytime the error log or BML is terminated. 0105B Operator initiated load. This message is logged whenever LOADBC is initiated by the operator. 0106B System initiated load. This message is logged whenever LOADBC is initiated by the operating system.
CH	2	35-24	Channel used to access the control module.
EQ	2	23-12	Equipment number of control module.
CW	3	59-0	COS revision level in display code. ********** if LOADBC cannot find the revision level.

HARDWARE INITIALIZATION	MSGID 0401B
MDI	SYMPTOM 0110B

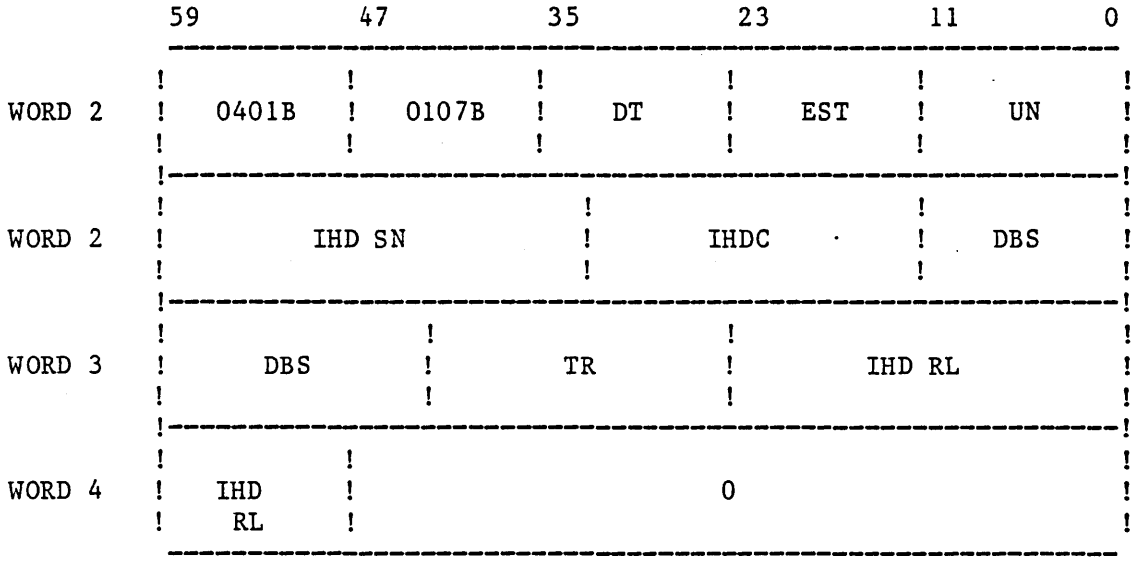
This BML message is issued when an MDI is successfully initialized. The MDI is the CDCNET component known as a mainframe device interface.



Field	Word	Location	Description
CH	2	35-24	Channel over which the MDI was initialized.
EST	2	23-12	EST ordinal of the equipment.
VER	3	51-36	Version number of the software to be loaded.

HARDWARE INITIALIZATION	MSGID: 0401B
887	SYMPTOM: 0107B

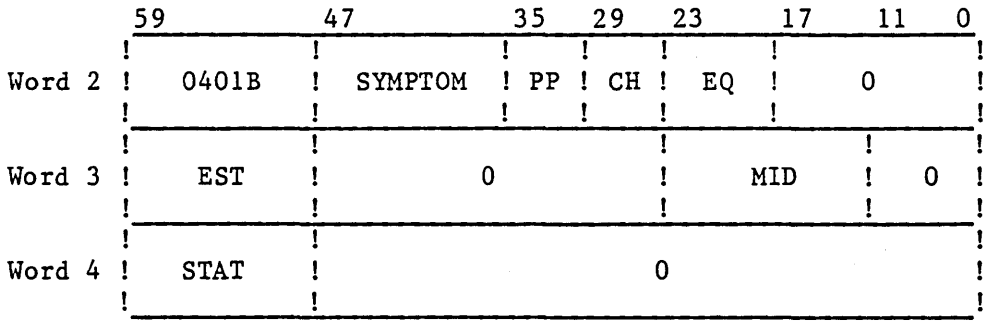
The following BML message is issued whenever NOS recovers a 887 device or whenever NOS terminates the BML file. (The following message must be near the beginning of the BML file for HPA analysis.)



Field	Word	Location	Description
DT	2	35-24	Device mnemonic. Two display code characters.
EST	2	23-12	EST ordinal in binary format.
UN	2	11-0	Unit number in binary format.
IHD SN	2	59-28	Disk serial number.
IHDC	3	11-0	Disk characteristics.
DBS	2	11-0	Data buffer size.
DBS	3	59-40	Data buffer size.
TR	3	39-24	Transfer rate.
IHD RL	4	23-0	Disk revision level.
IHD RL	5	59-52	Disk revision level.

Refer to the CDC Intelligent Hydra Drive Hardware Reference Manual for the format of the IHDC, IHD SN, DBS, TR, and IHD RL fields.

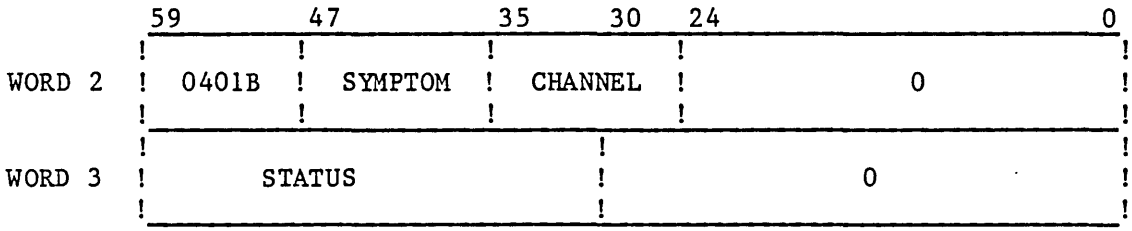
HARDWARE INITIALIZATION	MSGID 0401B
NIP/CCC	SYMPTOM 0111B, 0112B, 0113B



Field	Location	Description
SYMPTOM	59-48	Symptom code. 0111B NIP/CCC peripheral microcode loaded. 0112B NIP/CCC peripheral microcode load error. 0113B NIP/CCC status error.
PP	35-30	PP that detected the error.
CH	29-24	Channel on which the error was detected.
EQ	23-18	Equipment number.
EST	59-48	EST ordinal of the equipment.
MID	23-12	Machine identifier.
STAT	59-48	CCC status.

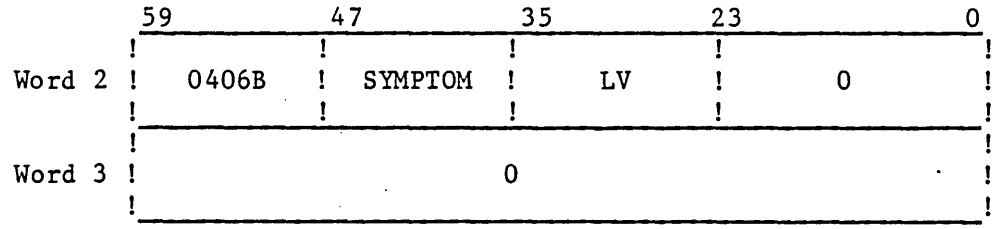
HARDWARE INITIALIZATION	MSGID 0401B
LOADBC FAILURES	SYMPTOM 0114B, 0115B, 0116B, 0117B

LOADBC issues the following message when an error is detected during controlware reload.



Field	Word	Location	Description
SYMPTOM	2	47-36	0114B Controller did not take all controlware. 0115B General status. 0116B Function timeout. 0117B No general status recieved.
CHANNEL	2	35-24	Channel used to access the controller.
STATUS	3	39-30	Not used for symptoms 0114B and 0117B. General status for symptom 0115B in display code terminated by a period. Function code for symptom 0116B in display code terminated by a period.

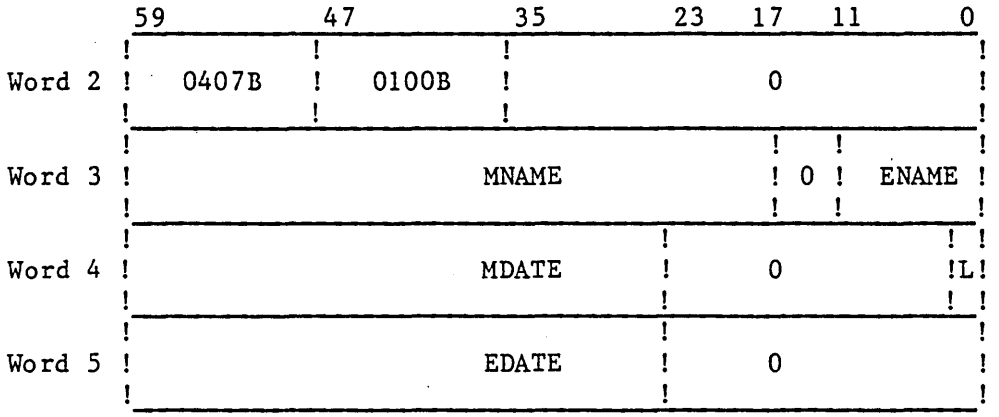
BINARY MAINTENANCE	MSGID 0406B
STATUS	SYMPTOM 0101B, 0102B, 0103B, 0104B, 0105B, 0107B, 0112B, 0113B, 0114B,



Field	Word	Location	Description
SYMPTOM	2	47-36	Symptom code. 0101B Maintenance log created. 0102B Maintenance log accessed. 0103B Maintenance log terminated. 0104B Deadstart recovery. 0105B Maintenance log read error. 0107B Maintenance log data lost. 0112B System checkpoint (normal termination). 0113B Maintenance log accessed by HPA. 0114B Maintenance log messages lost (detected by CPUMTR).
LV	2	35-23	Recovery level.

PROCESSOR INITIALIZATION	MSGID 0407B
HARDWARE CONFIGURATION/ MICROCODE, EI	SYMPTOM 0100B

This message is issued during all levels of deadstart to indicate the microcode and environment interface (EI) being used.



Field	Word	Location	Description
MNAME	3	59-18	Microcode name. Seven display code characters, left justified, zero filled.
ENAME	3	11-0	EI revision level. Two display code characters.
MDATE	4	59-24	Date microcode was generated in display code (yymmdd).
L	4	0	If set, microcode was not loaded. If clear, microcode was loaded.
EDATE	5	59-24	Date EI was generated in display code (yymmdd).

MAINFRAME STATUS	MSGID 0410B
SUMMARY OF ERROR COUNTERS	SYMPTOM 0100B

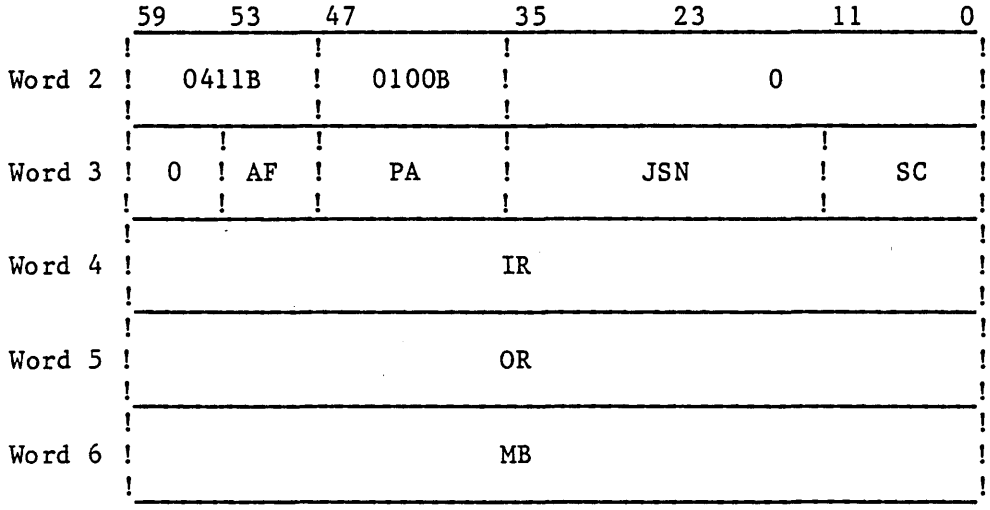
This message is issued at the top of every hour by 1MB. If all counters are zero, no message is issued. The counters indicate the number of errors encountered during the previous hour.

	59	47	35	23	11	0
Word 2	0410B	0100B	0			
Word 3	UPEC	CPU0	CPU1	CM	LCME	

Field	Word	Location	Description
UPEC	3	59-48	Uncorrected processor error counter.
CPU0	3	47-36	Corrected processor error counter for processor 0.
CPU1	3	35-24	Corrected processor error counter for processor 1.
CM	3	23-12	Corrected memory error counter.
LCME	3	11-0	Corrected LCME error counter.

SOFTWARE ERROR	MSGID 0411B
CONDITIONAL HANG	SYMPTOM 0100B

A BML message is issued for each occurrence of a system software error reported through the CPUMTR conditional hang function. This message is also issued for the existing HMGM monitor function and any CPUMTR detected PP HUNG conditions.



Field	Word	Location	Description
AF	3	53-48	Abort flag. 0 No user job impact. 1 Job step aborted. 2 Job aborted. 3 PP hung.
PA	3	47-36	PP program address (zero, if detected by CPUMTR).
JSN	3	35-12	Job sequence name of the job.
SC	3	11-0	Job service class.
IR	4	59-0	Input register of the PP when the hang condition occurred.
OR	5	59-0	Output register of the PP when the hang condition occurred.
MB	6	59-0	Message buffer of the PP (first word when the hang condition occurred).

Comments (continued from other side)

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