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IBM System/36
5363 System Unit
System Reference Codes (SRC)

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System Reference Codes (SRC)

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5363 System Reference Code (SRC)

– The SRCs are in sequence on the microfiche cards. Use the table below to determine the approximate location of your SRC on the microfiche cards.

System Reference Code Table

SRC	Device	Card	Row	Frame
0000	Program	1	A	3
1600	CSP	1	B	15
1800	Communications	1	C	7
1900	Disk	1	C	12
1C00	Work station	1	C	15
1d00	Diskette	1	C	16
3200	Memory	1	D	12

How to Use the System Reference Code (SRC)

- **The customer is directed by the problem determination (PD) procedures to gather information, record, and report the 4-character SRC when placing a call for service.**
- **Use the SRC to determine:**
 - **Failing feature or device.**
 - **Probable failing FRUs with % of probability.**
 - **FRU part numbers.**
 - **Need for programming support.**
 - **References to the maintenance package.**
- **This information will allow the service representative to determine what service action is required and what FRUs should be taken on the service call.**
- **Start at Frame A1 and follow the instructions as they are presented to find the SRC.**
- **If no SRC is reported, the service representative should contact the customer and determine if information is available to create an SRC.**

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0000	Program				With program check on--- Storage dump has been requested.
0001	Program				With program check on--- Module ID not found in control storage library.
0002	Program				With program check on--- Attempt to relocate a module that has no RLDs.
0003	Program				With program check on--- Control storage module link, load address unequal.
0004	Program				With program check on--- Dump requested by pressing stop key.
0005	Program				With program check on--- Quiesce counter has negative value.
0006	Program				With program check on--- Privileged operation issued in nonprivileged mode.
0007	Program				With program check on--- Register stack underflow or overflow.
0008	Program				With program check on--- Address translation error logging communication line data.
0009	Program				With program check on--- Address translation error relocating MS module.
0010	Program				With program check on--- Invalid disk IOB parameters.
0011	Program				With program check on--- Permanent disk read error
0012	Program				With program check on--- Dump requested because of hardware error.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0013	Program				With program check on--- Main storage program exception. Intermittent hardware errors can cause this failure. See procedure 120 in the MIM. If this SRC persists during the intermittent failure analysis replace following FRU's until the problem is solved: 1. A1J2 MSP Data flow; 2. A1H2 MS control; and 3. B1-G Main Storage Card.
0014	Program				With program check on--- Invalid main storage address access by MSP.
0015	Program				With program check on--- Invalid main storage operation code. Intermittent hardware errors can cause this failure. See procedure 120 in the MIM. If this SRC persists during the Intermittent Failure analysis, replace the following FRU's until the problem is solved: 1. B1-G Main Storage card; 2.A1J2 MSP Data flow; and 3.A1H2 MSP control.
0016	Program				With program check on--- Storage dump has been requested.
0017	Program				With program check on--- Address translation error during load SVC.
0018	Program				With program check on--- Error stack overflow.
0020	Program				With program check on--- Invalid timer queue element. Intermittent hardware errors can cause this failure. See procedure 120 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0021	Program				With program check on--- Address translation error on \$STRB parameter list.
0022	Program				With program check on--- Invalid system date flag found in syscom.
0023	Program				With program check on--- Nonprivileged program issued timer load request
0024	Program				With program check on--- Invalid type specified with timer request.
0025	Program				With program check on--- Nonprivileged pgm issued multiple-wait timer req.
0026	Program				With program check on--- Invalid ITYPE specified with timer request.
0027	Program				With program check on--- Negative time value specified with timer request.
0028	Program				With program check on--- Invalid inline parameter specified with timer request.
0029	Program				With program check on--- Invalid timer ID from \$SIT or \$RIT.
0030	Program				With program check on--- Disk error during translated assign recovery See section on disk procedures in the MIM.
0031	Program				With program check on--- Permanent diskette error during IPL from diskette.
0032	Program				With program check on--- Address translation error moving main storage program.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0033	Program				With program check on--- Disk error--unrecoverable disk operation. See section on disk procedures in the MIM.
0034	Program				With program check on--- Disk error--unrecoverable hardware error. See section on disk procedures in the MIM.
0035	Program				With program check on--- Disk error--unrecoverable or invalid sector. See section on disk procedures in the MIM.
0036	Program				With program check on--- Disk error--no alternative sectors available. See section on disk procedures in the MIM.
0037	Program				With program check on--- Error TB address is invalid.
0038	Program				With program check on--- Disk error--data accessed may be invalid. See section on disk procedures in the MIM.
0040	Hardwar Program				Data set ready line inactive. --- or --- With program check on--- Go to a relocatable CS module that is not loaded. Intermittent hardware errors can cause this failure. See procedure 120 intermittent failures in the MIM.
0041	Hardwar Program				Idle detected. --- or --- With program check on--- System is in a wait or infinite loop.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0042	Hardwar Program				With program check on--- Invalid ID in LAN Comm IO
0043	Hardwar Program				With program check on--- Invalid SNA opcode in LAN Comm IOB. (switched only).
0044	Hardwar Program				30 second time out (switched only). --- or --- With program check on--- Program is larger than main storage user area.
0045	Program				With program check on--- Task already in abnormal termination.
0046	Program				With program check on--- Error ACE is the dump ACE Intermittent hardware errors can cause this failure. See procedure 120 in the MIM. If this SRC persists during the Intermittent Failure Analysis replace the following FRUs until the problem is solved: 1. A1C2; Disk Adapter Card. 2. A1D2 DSA ; and 3. A1G2 CSP.
0047	Program				With program check on--- Main storage 2K segment error.
0048	Program				With program check on--- Invalid tape IOB parameters.
0049	Program				With program check on--- Invalid device-to-device IOB parameter.
0050	Hardwar Program				Clear to send error. --- or --- With program check on--- Disk error--loading control storage module.
0051	Hardwar				Transmit clock failed.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0052	Hardwar Program				Transmit hardware error. --- or --- With program check on--- Invalid assign SVC or free SVC parameters.
0053	Program				With program check on--- Disk error--loading control storage transient
0054	Program				With program check on--- Invalid sector address calculated on TWA request
0055	Program				With program check on--- Nonprivileged pgm accessing privileged transient.
0056	Program				With program check on--- Dump requested by SETDU utility.
0058	Program				With program check on--- Invalid I/O device address in a work station IOB.
0059	Program				With program check on--- Permanent work station error during MSIPL.
0060	Remote WS Cntl Program				Appears in ERAP table for remote work station controller. With Program check on -- Permanent assign failure. Intermittent hardware errors can cause this failure. See procedure 120 in the MIM. If this SRC persists during the Intermittent Failure Analysis replace the following FRUs until the problem is solved: 1. B1-G Main Storage Card; 2. A1J2 MSP Data Flow; 3.A1G2 CSP.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0065	Remote WS Cntl Program				Appears in ERAP table for remote work station controller. ----- Counts the loss of the "clear to send" line during a transmit operation. --- or --- With program check on--- ATR load error on logging device data.
0066	Remote WS Cntl				Appears in ERAP table for remote work station controller. ----- Counts the loss of the "data set ready" line during a transmit or receive operation.
0067	Remote WS Cntl Program				Appears in ERAP table for remote work station controller. ----- Counts the loss of the "reject" commands sent by the work station controller. --- or --- With program check on--- Disk error during device controller load.
0068	Remote WS Cntl Program				Appears in ERAP table for remote work station controller. ----- Counts the frame or groups of frames that must be transmitted again by the work station controller to the host system because the host system did not receive them correctly. --- or --- With program check on--- Program exceeds MAPMAX value.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0069	Remote WS Cntl Program				Appears in ERAP table for remote work station controller. ----- Counts the frames that were received that have a CRC error. --- or --- With program check on--- Storage management failure
006A	Remote WS Cntl				Appears in ERAP table for remote work station controller. ----- Counts the number of times an abort is received by the work station controller.
006B	Remote WS Cntl				Appears in ERAP table for remote work station controller.
006C	Remote WS Cntl				Appears in ERAP table for remote work station controller. ----- Counts the number of times the T1 counter expires.
006D	Remote WS Cntl				Appears in ERAP table for remote work station controller.
006E	Remote WS Cntl				Appears in ERAP table for remote work station controller. ----- Counts the number of information frames transmitted.
006F	Remote WS Cntl				Appears in ERAP table for remote work station controller. ----- Counts the number of valid information frames received.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0070	Remote WS Cntl Program				Appears in ERAP table for remote work station controller. ----- Remote cluster feature hardware error. --- or --- With program check on-- Invalid diskette sector address.
0071	Program				With program check on-- Invalid emulation address
0072	Remote WS Cntl Program				Appears in ERAP table for remote work station controller. ----- Remote cluster feature overrun. --- or --- With program check on-- Invalid read DSC storage IOB parameter.
0073	Remote WS Cntl				Appears in ERAP table for remote work station controller. ----- Remote cluster feature write error.
0075	Program				With program check on-- Disk error--no disk recovery block found. See section on disk procedures in MIM.
0076	Program				Invalid diskette data compression SVC.
0077	Program				Invalid control character - Decompress.
0078	Program				Disk error during data compression.
0079	Program				With program check on-- Invalid SVC requested.
0080	Program				With program check on-- Invalid translated IOB-- not mapped or permitted.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0081	Program				With program check on-- Invalid translated buffer not aligned or not mapped Intermittent hardware errors can cause this failure. See procedure 120 in MIM. If this SRC per- sists during the inter- mittent Failure analysis replace the following FRUs until the problem is solved: 1. B1-G Main Storage card; 2. A1J2 MSP Data Flow; and 3.A1G2 CSP.
0082	Program				With program check on-- Invalid translated parameter list--not mapped
0083	Program				With program check on-- SVC map parameter list is in error. Intermittent hardware errors can cause this failure. See procedure 120 in the MIM.
0084	Program				With program check on-- Zero quick-lock address passed.
0085	Program				With program check on-- Communication IOB has invalid header length.
0086	Program				With program check on-- Invalid post of communication ERB.
0087	Program				With program check on-- Invalid XASGN request.
0088	Program				With program check on-- Invalid XFREE request.
0089	Program				With program check on-- CSP main storage program exception.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0090	Program				With program check on-- CSP main storage program exception. Intermittent hardware errors can cause this failure. See procedure 120 in the MIM. If this SRC persists during the Intermittent Failure Analysis replace the following FRUs until the problem is solved. 1.B1-G Main Storage Card; 2 A1J2 MSP Data Flow; and 3 A1H2 MSP Control.
0092	Program				With program check on-- I/O buffer is aligned on an odd byte boundary.
0093	Program				With program check on-- Invalid control storage address.
0094	Program				With program check on-- Control storage program timed out while looping. Intermittent hardware errors can cause this failure. See procedure 120 in the MIM. If this SRC persists during the Intermittent Failure Analysis replace the following FRUs until the problem is solved: 1. A1C2 Disk Adapter Card. 2. A1D2 DSA; and 3. A1G2 CSP.
0095	Program				With program check on-- Invalid branch taken by a control storage program.
0096	Program				With program check on-- Invalid power off command
0097	Program				With program check on-- Invalid TWA deallocate request.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0098	Remote WS Cntl Program				Appears in ERAP table for remote work station controller. ----- Not defined remote hardware error. --- or --- With program check on-- Insufficient task work area reserved.
0100	Display WS cbl A1F2 A1E2	50 25 15 10	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station display is not responding within 127 microseconds.
0101	A1F2 WS cbl Display A1E2 Program	50 30 10 9	92X3221 ----- 92X3295 92X3296	WS Adptr/panel/PT Twinax/IBM cbl system WS Pass Through WS Controller feature	The Twinax driver/receiver is failing. --- or --- With program check on-- Device unit block has an invalid device ID.
0102	Program				With program check on-- \$NUPD was called for a not supported function.
0103	Noise WS cbl Display A1F2 A1E2	60 20 7 5 3	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station attachment detected a parity error.
0104	Noise WS cbl Display A1F2 A1E2	60 20 7 5 5	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The twinax display detected a parity error
0105	Remote WS Cntl Program				Appears in ERAP table for remote work station controller. ----- Work station not accessible. --- or --- With program check on-- POSTI failure of a task.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0106	WS cbl Display A1F2 A1E2 Program	70 10 10 5	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station attachment detected a byte count error. --- or --- With program check on-- TWA SVC cannot honor WS get/put request.
0107	Remote WS Cntl Program				Appears in ERAP table for remote work station controller. ----- Wrong work station responded. --- or --- With program check on-- Invalid TWA deallocate request.
0108	Display A1F2 A1E2 Program	85 5 5	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station display reset at the wrong time. --- or --- With program check on-- TWA base ID does not exist
0109	Noise Display A1F2 WS cbl A1E2 Program	40 30 15 10 4	92X3221 ----- 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system WS Controller feature WS Pass Through	The work station display failed to respond to a command. --- or --- With program check on-- Invalid task work area operation.
0110	Program				With program check on-- WRK SVC parameter list is in error.
0111	Display WS cbl A1F2 B1-G A1E2 Program	75 10 5 5 4	----- 92X3221 92X3222 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT Main Storage Card WS Controller feature WS Pass Through	Invalid scan code for work station display. --- or --- With program check on-- Active map count underflow

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0112	Program				With program check on--CSP accessed an invalid main storage address. Intermittent hardware errors can cause this failure. See procedure 120 intermittent failures in the MIM.
0113	Program				With program check on--I/O operation issued to active IOB.
0120	Noise Display A1F2 WS cbl B1-G A1E2	40 20 20 10 5 4	92X3221 ----- 92X3222 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system Main Storage Card WS Controller feature WS Pass Through	The command sent to the work station display was not a valid command.
0121	Noise Display A1F2 WS cbl B1-G A1E2	40 20 20 10 5 4	92X3221 ----- 92X3222 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system Main Storage Card WS Controller feature WS Pass Through	The address counter value. sent to the work station display was too large.
0122	A1F2 B1-G Display WS cbl A1E2	35 30 20 10 4	92X3221 92X3222 ----- 92X3296 92X3295	WS Adptr/panel/PT Main Storage Card Twinax/IBM cbl system WS Controller feature WS Pass Through	The amount of command bytes sent to the display was too large.
0123	Noise Display A1F2 WS cbl B1-G A1E2	40 20 20 10 5 4	92X3221 ----- 92X3222 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system Main Storage Card WS Controller feature WS Pass Through	The address counter value sent to the work station display was not a valid value.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0124	Noise Display A1F2 WS cbl B1-G A1E2	40 20 20 10 5 4	 92X3221 ----- 92X3222 92X3296 92X3295	 WS Adptr/panel/PT Twinax/IBM cbl system Main Storage Card WS Controller feature WS Pass Through	The activate command sent to the work station display was not valid.
0125	Display WS cbl A1F2 B1-G A1E2	55 20 10 10 4	 ----- 92X3221 92X3222 92X3296 92X3295	 Twinax/IBM cbl system WS Adptr/panel/PT Main Storage Card WS Controller feature WS Pass Through	Work station error status was not valid.
0127	Display A1F2 WS cbl B1-G A1E2	45 30 10 10 4	 92X3221 ----- 92X3222 92X3296 92X3295	 WS Adptr/panel/PT Twinax/IBM cbl system Main Storage Card WS Controller feature WS Pass Through	The address counter value sent to an IGC work station display in extended character mode.
0149	A1F2	40	92X3221	WS Adptr/panel/PT	The work station attachment has reported an error, but the error status is not valid.
0181	Hardwar				Magnetic stripe reader error.
0182	Hardwar				Device Type error.
0183	Hardwar				Wrong size display assemble
0184	Hardwar				Wrong keyboard ID.
0185	Hardwar				Wrong keyboard specified.
0186	Display WS cbl A1F2 B1-G A1E2	70 15 5 5 4	 ----- 92X3221 92X3222 92X3296 92X3295	 Twinax/IBM cbl system WS Adptr/panel/PT Main Storage Card WS Controller feature WS Pass Through	The work station display indicated a magnetic stripe reader operation occurred when no reader

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0189	Display WS cbl A1F2 B1-G A1E2	60 10 10 5 5	----- 92X3221 92X3222 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT Main Storage Card WS Controller feature WS Pass Through	The work station display indicated a magnetic stripe reader operation occurred even though no data had been sent.
0190	Display	99			The work station display has not changed the even/odd time out bit in 400 milliseconds. Indicated a work station display error.
0191	Display	99			The work station display cannot complete a command in 460 milliseconds. Indicates a work station display failure.
0200	Printer WS cbl A1F2 A1E2	60 20 10 5	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station printer is not responding within 127 microseconds.
0201	A1F2 WS cbl Printer A1E2	60 20 10 5	92X3221 ----- 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system WS Controller feature WS Pass Through	The Twinax driver/receiver is failing.
0203	Noise WS cbl Printer A1F2 A1E2	60 20 7 5 5	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station attachment detected a parity error.
0204	Noise WS cbl Printer A1F2 A1E2	60 20 7 5 5	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station printer detected a parity error
0205	Remote WS Printer				Appears in ERAP table for remote work station controller. ----- Work station printer not accessible.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0206	WS cbl Printer A1F2 A1E2	70 10 10 5	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station attachment detected a byte count error.
0208	Printer A1F2 A1E2	90 5 4	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station printer reset at the wrong time.
0209	Noise Printer A1F2 WS Cbl A1E2 Program	40 25 20 10 4	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station printer failed to respond to a command.
0211	Hardwar	99			Machine check - 5219/3812/ 5224/5225 work station printers. --- or --- With program check on-- Device ID in IOB on return from DSC not valid.
0212	Hardwar	99			Machine check - 5219/3812/ work station printers --- or --- With program check on-- SIO logged IOB not valid.
0214	Program	99			Machine check - 5219/3812/
0220	Noise Printer A1F2 WS cbl B1-G A1E2	40 20 20 10 5 4	92X3221 ----- 92X3222 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system Main Storage Card WS Controller feature WS Pass Through	The command sent to the work station printer was not a valid command.
0221	Printer WS cbl A1F2 B1-G A1E2	50 20 10 10 5	----- 92X3221 92X3222 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT Main Storage Card WS Controller feature WS Pass Through	The work station printer has reported an error but the exception status is invalid.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0222	A1F2 B1-G Printer WS cbl A1E2	35 30 20 10 4	92X3221 92X3222 ----- 92X3296 92X3295	WS Adptr/panel/PT Main Storage Card Twinax/IBM cbl system WS Controller feature WS Pass Through	The number of command was too large.
0223	Noise Printer A1F2 WS cbl B1-G A1E2	35 25 20 10 5 4	92X3221 ----- 92X3222 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system Main Storage Card WS Controller feature WS Pass Through	The work station printer did not respond to an activate command and did not report a parity error
0224	Noise Printer A1F2 WS cbl B1-G A1E2	30 25 20 10 5 4	92X3221 ----- 92X3222 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system Main Storage Card WS Controller feature WS Pass Through	The activate command sent to the work station printer was not valid.
0225	Printer WS cbl A1F2 B1-G A1E2	55 20 10 10 4	----- 92X3221 92X3222 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT Main Storage Card WS Controller feature WS Pass Through	Work station printer has reported an error with undefined exception status
0226	Printer	99			The work station printer has reported a not printable character. See the work station printer manual.
0228	Printer	99			Invalid printer data stream command. See the work station printer manual.
0229	Printer	99			Invalid printer data stream parameter. See the work station printer manual.
0230	Printer	99			Printer mechanism not ready. See the work station printer manual.
0231	Printer	99			Print check. See the work station printer manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0232	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on--OXREF resident table exceeded.
0233	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on--Cannot free this library format-1 -- has active owner.
0234	Printer	99			The work station printer has reported a unit error See the work station printer manual.
0235	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on--Program check in termination exit routine.
0236	Printer	99			Print check. See the work station printer manual.
0237	Printer	99			Print check. See the work station printer manual.
0238	Printer	99			Print check. See the work station printer manual.
0239	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on--Invalid SSP.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0240	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Program attempted to cancel a noncancelable task.
0241	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Disk error while condensing the system library.
0242	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Deallocate or termination found PSB with no TUB.
0243	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Command processor task or user task has no JCB.
0244	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- MICs 3700, 3712, 3713 not found in ##MSG2 member.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0245	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- MICs 3710 or 3711 not found in ##MSG2 member.
0246	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Syslog function called by the command processor.
0247	Printer WS cbl A1F2 A1E2 Program	75 10 10 4	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- IBM module has invalid WT table or format index table.
0248	Printer Program	99			The work station printer has reported a unit error See the work station printer manual. --- or --- With program check on-- Library/file use count is less than zero.
0249	Printer WS cbl A1F2 A1E2 Program	85 5 5 4	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station printer has error status not defined. See the work station printer manual. --- or --- With program check on-- Required SSP module not found during MSIPL.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0250	Printer Program	99			Forms jam or end of forms See the work station printer manual. --- or --- With program check on-- Format-5 extents partially free during file delete.
0251	Printer Program	99			Printer not available. See the work station printer manual. --- or --- With program check on-- Format-5 file count is less than zero.
0252	Program				With program check on-- An AFA Format 1 has an invalid file type.
0253	Program				With program check on-- Unexpected return code from diskette VTOC R/W.
0254	Program				With program check on-- Unexpected return code from disk VTOC access.
0255	Printer				Shared printer busy.
0258	Printer	99			End of ribbon. See the work station printer manual.
0266	Printer	99			The work station printer (5219) has a data stream error. See the work station printer manual.
0267	Printer	99			The work station printer (5219/3812) has a data stream error. See the work station printer manual.
0268	Printer	99			The work station printer (5219/3812) has a data stream error. See the work station printer manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0269	Printer	99			The work station printer (5219/3812) has a data stream error. See the work station printer manual.
0281	Printer	99			The work station printer has a cover check or machine check. See the work station printer manual.
0283	Printer	99			The work station printer has a print check. See the work station printer manual.
0284	Printer	99			The work station printer has a print check. See the work station printer manual.
0285	Printer	99			The work station printer has a printer check. See the work station printer manual.
0286	Printer	99			The work station printer has a machine check. See the work station printer manual.
0287	Printer	99			The work station printer has a machine check. See the work station printer manual.
0288	Printer	99			The work station printer has a ribbon jam. See the work station printer manual.
0289	Printer	99			The work station printer has a ribbon jam. See the work station printer manual.
0290	Printer	99			The work station printer has not changed the even/odd time out bit in 8 seconds indicating a work station printer error. See the work station printer manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
0291	Printer	99			The work station printer has not completed a command within 8 seconds indicating a work station printer error. See work station printer manual.
0Bxx	A1J2 A1H2	50 50	92X3291 92X3292	MSP data flow card MSP control card	MSP error.
1111					Hardware default code. Error condition was not evaluated. ReIPL to obtain a refined SRC. If system completes IPL, look in ERAP for SRCs at the time of ReIPL. Intermittent hardware errors can cause this failure. See procedure 120 in the MIM. If this SRC persists during Intermittent Failure Analysis replace the following FRUs until the problem is solved: 1. A1G2 CSP; 2. A1J2 MSP Data Flow; 3. B1-G Main Storage Card; 4. A1F2 WSA/Panel; 5. A1H2 MSP Control; 6. A1E2 W/S Controller feature; 7. A1D2 DSA ; and 8. A1C2 Disk Adapter Card.
1200	B1-G A1J2 A1-BD	94 4 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Main Store Memory Error encountered.
1201	B1-G A1J2 A1-BD	94 4 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Main Store Memory Error encountered.
1202	B1-G A1J2 A1-BD	94 4 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Main Store Memory Error encountered.
120C	B1-G A1J2 A1-BD	94 4 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Main Store Memory Error encountered.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
120D	A1J2 A1H2	96 3	92X3291 92X3292	MSP data flow card MSP control card	Unexpected CSP Machine Check Interrupt identified as MSP error.
120E	A1J2 A1H2	97 2	92X3291 92X3292	MSP data flow card MSP control card	Main Store Processor Error
1210	A1J2 B1-G A1H2 A1-BD	87 10 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
1211	A1J2 B1-G A1H2 A1-BD	87 10 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
1212	A1J2 B1-G A1H2 A1-BD	87 10 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
121C	A1J2 B1-G A1H2 A1-BD	87 10 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
121D	A1H2 A1J2	98 1	92X3292 92X3291	MSP control card MSP data flow card	Unexpected CSP Machine Check Interrupt identified as MSP Error.
121E	A1H2 A1J2	98 1	92X3292 92X3291	MSP control card MSP data flow card	Main Store Processor Error
1220	A1J2 B1-G A1H2 A1-BD	86 11 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
1221	A1J2 B1-G A1H2 A1-BD	86 11 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
1222	A1J2 B1-G A1H2 A1-BD	86 11 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
122C	A1J2 B1-G A1H2 A1-BD	86 11 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
122D	A1J2	99	92X3291	MSP data flow card	Unexpected CSP Machine Check Interrupt identified as MSP Error.
122E	A1J2	99	92X3291	MSP data flow card	Main Store Processor Error
1230	A1J2 B1-G A1H2 A1-BD	88 8 2 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
1231	A1J2 B1-G A1H2 A1-BD	88 8 2 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
1232	A1J2 B1-G A1H2 A1-BD	88 8 2 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
123C	A1J2 B1-G A1H2 A1-BD	88 8 2 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
123D	A1H2 A1J2	98 1	92X3292 92X3291	MSP control card MSP data flow card	Unexpected CSP Machine Check Interrupt identified as MSP error.
123E	A1H2 A1J2	97 2	92X3292 92X3291	MSP control card MSP data flow card	Main Store Processor Error
1240	A1J2 B1-G A1H2 A1-BD	74 24 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
1241	A1J2 B1-G A1H2 A1-BD	74 24 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
1242	A1J2 B1-G A1H2 A1-BD	74 24 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
124C	A1J2 B1-G A1H2 A1-BD	74 24 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
124D	A1H2	99	92X3292	MSP control card	Unexpected CSP Machine Check Interrupt Identified as MSP Error.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
124E	A1H2	99	92X3292	MSP control card	Main Store Processor Error
1250	A1J2 B1-G A1H2 A1-BD	68 29 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
1251	A1J2 B1-G A1H2 A1-BD	68 29 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
1252	A1J2 B1-G A1H2 A1-BD	68 29 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
125C	A1J2 B1-G A1H2 A1-BD	68 29 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
125E	A1H2	99	92X3292	MSP control card	Main Store Processor Error
1260	A1J2 A1H2 B1-G A1-BD	80 10 8 1	92X3291 92X3292 92X3222 69X7333	MSP data flow card MSP control card Main Storage Card A1 Board	Main Store Processor Error
1261	A1J2 A1H2 B1-G A1-BD	80 10 8 1	92X3291 92X3292 92X3222 69X7333	MSP data flow card MSP control card Main Storage Card A1 Board	Main Store Processor Error
1262	A1J2 A1H2 B1-G A1-BD	80 10 8 1	92X3291 92X3292 92X3222 69X7333	MSP data flow card MSP control card Main Storage Card A1 Board	Main Store Processor Error
126C	A1J2 A1H2 B1-G A1-BD	80 10 8 1	92X3291 92X3292 92X3222 69X7333	MSP data flow card MSP control card Main Storage Card A1 Board	Main Store Processor Error
126E	A1H2	99	92X3292	MSP control card	Main Store Processor Error
1270	B1-G A1J2 A1H2 A1-BD	65 19 14 1	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	Run Time Main Store Memor Error.
1271	B1-G A1J2 A1H2 A1-BD	65 19 14 1	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	Run Time Main Store Memor Error.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1272	B1-G A1J2 A1H2 A1-BD	65 19 14 1	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	Main Store Processor Error
127C	B1-G A1J2 A1H2 A1-BD	65 19 14 1	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	Run Time Main Store Memor Error.
127D	A1J2 A1H2	92 7	92X3291 92X3292	MSP data flow card MSP control card	Main Store Processor Error
1280	B1-G A1J2 A1-BD	97 1 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Run Time Main Store Memory Error.
1281	B1-G A1J2 A1-BD	97 1 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Run Time Main Store Memory Error.
1282	B1-G A1J2 A1-BD	97 1 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Run Time Main Store Memory Error.
128C	B1-G A1J2 A1-BD	97 1 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Run Time Main Store Memor Error
12D0	A1J2 B1-G A1H2 A1-BD	51 46 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Control Store Processor detected a Main Store Memory Error.
12D1	A1J2 B1-G A1H2 A1-BD	51 46 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Control Store Processor detected a Main Store Memory Error
12D2	A1J2 B1-G A1H2 A1-BD	51 46 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
12DC	A1J2 B1-G A1H2 A1-BD	51 46 1 1	92X3291 92X3222 92X3292 69X7333	MSP data flow card Main Storage Card MSP control card A1 Board	Main Store Processor Error
12E0	B1-G A1J2 A1H2 A1-BD	62 19 17 1	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	Control Store Processor detected a Main Store Memory Error.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
12E1	B1-G A1J2 A1H2 A1-BD	62 19 17 1	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	Control Store Processor detected a Main Store Memory Error.
12E2	B1-G A1J2 A1H2 A1-BD	62 19 17 1	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	Control Store Processor received a Machine Check Interrupt on a Main Store access.
12EC	B1-G A1J2 A1H2 A1-BD	62 19 17 1	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	Control Store Processor received a Machine Check Interrupt on a Main Store access.
12F0	B1-G A1J2 A1-BD	96 2 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Control Store Processor detected a Main Store Memory Error.
12F1	B1-G A1J2 A1-BD	96 2 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Control Store Processor detected a Main Store Memory Error.
12F2	B1-G A1J2 A1-BD	96 2 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Control Store Processor received a Machine Check Interrupt on a Main Store Access
12FC	B1-G A1J2 A1-BD	96 2 1	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	Control Store Processor received a Machine Check Interrupt on a Main Store Access
12FE	A1H2 A1J2 B1-G A1-BD	50 40 5 1	92X3292 92X3291 92X3222 69X7333	MSP control card MSP data flow card Main Storage Card A1 Board	MSP/MS error occurred, but could not be logged.
12FF	A1H2 A1J2 B1-G A1-BD	50 40 5 1	92X3292 92X3291 92X3222 69X7333	MSP control card MSP data flow card Main Storage Card A1 Board	Unexpected error.
1404	Program				S36 attachment program could not access a timer. Replace DSKT 61 & DSKT 6 and re-customize. Re-ipl with wraps. If problem persists call PSR with SRC and MIC code contained MS address: 10023-24. Run APAR to collect data.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1408	Program B1-G B1-BD B1-A	85 5 5	92X3222 92X7296 92X7359	Main Storage Card Feature board Feature IOP	S36 attachment program failure. The cause may be a hardware problem. Replace DSKT 61, DSKT 62, & recustomize. ReIPL with wraps. If problem persists call PSR with SRC and MIC code contained MS address: 10023-24. Run APAR to collect data.
1411	Program				S/36 attachment program failed. @COMMGR may be missing or bad. Replace DSKT 62 and recustomize. Run APAR to collect data.
1413	Program				S36 attachment program failed. @TAPEMGR may be missing or bad. Replace DSKT 62 and recustomize.
1414	Program B1-G A1-BD B1-A B1-BD	85 5 5 2	92X3222 69X7333 92X7359 92X7296	Main Storage Card A1 Board Feature IOP Feature board	Invalid SPC modifier. The cause may be a hardware problem. Re IPL with wrap. If problem persists take a dump and call PSR. Run APAR to collect data.
1602	A1G2 A1D2	48 48	92X3293 92X3294	CSP card Data Storage Adapter	Channel error.
1603	A1G2 A1D2	48 48	92X3293 92X3294	CSP card Data Storage Adapter	Error during cycle steal or I/O instruction to/from DSA.
1605	A1G2 A1D2 A1F2 A1E2 B1-G A1E2 A1-BD	46 46 2 2 2 1 1	92X3293 92X3294 92X3221 92X3296 92X3222 92X3295 69X7333	CSP card Data Storage Adapter WS Adptr/panel/PT WS Controller feature Main Storage Card WS Pass Through A1 Board	Error during cycle steal or I/O instruction to/from DSA. See channel isolation procedure 155 in the MIM.
160A	A1G2 A1F2 A1E2 A1D2 B1-G A1E2 A1-BD	31 31 31 3 2 1 1	92X3293 92X3221 92X3296 92X3294 92X3222 92X3295 69X7333	CSP card WS Adptr/panel/PT WS Controller feature Data Storage Adapter Main Storage Card WS Pass Through A1 Board	Error during cycle steal or I/O instruction to/from work station line adapter. See channel isolation procedure 155 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1620	A1G2 A1J2 A1F2 A1E2 A1D2 B1-G A1-BD A1E2	24 24 24 24 1 1 1 1	92X3293 92X3291 92X3221 92X3296 92X3294 92X3222 69X7333 92X3295	CSP card MSP data flow card WS Adptr/panel/PT WS Controller feature Data Storage Adapter Main Storage Card A1 Board WS Pass Through	Error during cycle steal between MSP and the work station line adapter. Replace the MSP data flow first. If that does not fix the problem go to the channel isolation procedure 155 in the MIM.
1621	A1G2 A1J2 A1D2 A1F2 A1E2 B1-G A1E2 A1-BD	30 30 30 2 2 2 2 2	92X3293 92X3291 92X3294 92X3221 92X3296 92X3222 92X3295 69X7333	CSP card MSP data flow card Data Storage Adapter WS Adptr/panel/PT WS Controller feature Main Storage Card WS Pass Through A1 Board	Error during cycle steal between MSP and the DSA. Replace the MSP data flow card first. If that does not fix the problem go to the channel isolation procedure 155 in the MIM.
1630	A1G2 B1-G A1J2 A1H2 A1-BD	50 20 10 10 5	92X3293 92X3222 92X3291 92X3292 69X7333	CSP card Main Storage Card MSP data flow card MSP control card A1 Board	3 second time out during cycle steal.
1635	A1G2 A1F2	90 5	92X3293 92X3221	CSP card WS Adptr/panel/PT	Storage check or LSR check.
1645	A1G2 A1D2 A1F2 A1E2 B1-G A1E2 A1-BD	23 23 23 23 6 1 1	92X3293 92X3294 92X3221 92X3296 92X3222 92X3295 69X7333	CSP card Data Storage Adapter WS Adptr/panel/PT WS Controller feature Main Storage Card WS Pass Through A1 Board	Error during SILSB on interrupt level 4. Go to channel isolation procedure 155 in the MIM.
164A	A1G2 A1D2 A1F2 A1E2 B1-G A1E2 A1-BD	78 5 5 5 5 1 1	92X3293 92X3294 92X3221 92X3296 92X3222 92X3295 69X7333	CSP card Data Storage Adapter WS Adptr/panel/PT WS Controller feature Main Storage Card WS Pass Through A1 Board	Error during SILSB on interrupt level 2. Replace the CSP card. If that does not fix the problem go to the channel isolation procedure 155 in the MIM.
1650	A1G2 A1J2 A1F2	45 45 5	92X3293 92X3291 92X3221	CSP card MSP data flow card WS Adptr/panel/PT	3 or 4 second time out.
1670	A1G2 A1J2 B1-G A1H2 A1-BD	80 12 5 1 1	92X3293 92X3291 92X3222 92X3292 69X7333	CSP card MSP data flow card Main Storage Card MSP control card A1 Board	Control Store Processor received an error while accessing the MSP.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1671	A1G2 A1J2 B1-G A1H2 A1-BD	80 12 5 1 1	92X3293 92X3291 92X3222 92X3292 69X7333	CSP card MSP data flow card Main Storage Card MSP control card A1 Board	Control Store Processor received an error while accessing the MSP.
1672	A1G2 A1J2 B1-G A1H2 A1-BD	80 12 5 1 1	92X3293 92X3291 92X3222 92X3292 69X7333	CSP card MSP data flow card Main Storage Card MSP control card A1 Board	Control Store Processor received an error while accessing the MSP.
167C	A1G2 A1J2 B1-G A1H2 A1-BD	80 12 5 1 1	92X3293 92X3291 92X3222 92X3292 69X7333	CSP card MSP data flow card Main Storage Card MSP control card A1 Board	The Control Store Processor received an error while accessing the Main Store Processor.
1680	A1J2 B1-G A1H2 A1G2 A1-BD	60 36 1 1 1	92X3291 92X3222 92X3292 92X3293 69X7333	MSP data flow card Main Storage Card MSP control card CSP card A1 Board	Main Store Memory Error
1681	A1J2 B1-G A1H2 A1G2 A1-BD	60 36 1 1 1	92X3291 92X3222 92X3292 92X3293 69X7333	MSP data flow card Main Storage Card MSP control card CSP card A1 Board	Main Store Memory Error
1682	A1J2 B1-G A1H2 A1G2 A1-BD	60 36 1 1 1	92X3291 92X3222 92X3292 92X3293 69X7333	MSP data flow card Main Storage Card MSP control card CSP card A1 Board	Main Store Memory Error
168C	A1J2 B1-G A1H2 A1G2 A1-BD	60 36 1 1 1	92X3291 92X3222 92X3292 92X3293 69X7333	MSP data flow card Main Storage Card MSP control card CSP card A1 Board	Main Store Memory Error
16E3	A1G2 A1J2	60 40	92X3293 92X3291	CSP card MSP data flow card	False MSP error during cycle steal.
16E8	A1G2 A1J2	59 41	92X3293 92X3291	CSP card MSP data flow card	False MSP error.
16EA	A1G2 A1J2	94 6	92X3293 92X3291	CSP card MSP data flow card	MSP MSAR parity check.
16EC	A1G2 A1J2	60 40	92X3293 92X3291	CSP card MSP data flow card	MSP MSAR parity check during cycle steal.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
16F0	A1G2 A1F2	90 5	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP LSR Parity check. ReIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from reIPL.
16F1	B1-G A1J2 A1-BD	70 20 5	92X3222 92X3291 69X7333	Main Storage Card MSP data flow card A1 Board	MSP error: main storage access timeout. ReIPL. If sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from reIPL.
16F2	A1J2 A1H2 B1-G A1-BD	50 30 10 5	92X3291 92X3292 92X3222 69X7333	MSP data flow card MSP control card Main Storage Card A1 Board	MSP error: Parity checks ReIPL. If sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from reIPL.
16F3	A1G2 A1D2 A1F2 A1E2 B1-G A1E2 A1-BD	19 19 19 19 19 3 2	92X3293 92X3294 92X3221 92X3296 92X3222 92X3295 69X7333	CSP card Data Storage Adapter WS Adptr/panel/PT WS Controller feature Main Storage Card WS Pass Through A1 Board	CSP channel error. ReIPL. If sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from reIPL. See channel isolation procedure 155 in the MIM.
16F4	A1G2 A1F2	90 5	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP ECC error. ReIPL. If sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from reIPL.
16F5	A1-BD A1G2	50 49	69X7333 92X3293	A1 Board CSP card	Interrupt level 1 occurred from an unknown device. ReIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from reIPL.
16F6	A1G2 A1-BD	75 24	92X3293 69X7333	CSP card A1 Board	Interrupt level 2 occurred from an unknown device. ReIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from reIPL.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
16F7	A1G2 A1F2 A1E2 A1-BD A1E2	32 32 32 2 2	92X3293 92X3221 92X3296 69X7333 92X3295	CSP card WS Adptr/panel/PT WS Controller feature A1 Board WS Pass Through	Interrupt level 3 occurred from an unknown device. ReIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from reIPL.
16F8	A1G2 A1D2 A1F2 A1E2 A1-BD A1E2	30 30 30 5 1 1	92X3293 92X3294 92X3221 92X3296 69X7333 92X3295	CSP card Data Storage Adapter WS Adptr/panel/PT WS Controller feature A1 Board WS Pass Through	Interrupt level 4 occurred from an unknown device. ReIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from reIPL.
16FF	A1G2 A1H2 A1J2 A1D2 A1F2 A1E2 B1-G A1-BD A1E2	30 15 15 10 10 10 5 4 1	92X3293 92X3292 92X3291 92X3294 92X3221 92X3296 92X3222 69X7333 92X3295	CSP card MSP control card MSP data flow card Data Storage Adapter WS Adptr/panel/PT WS Controller feature Main Storage Card A1 Board WS Pass Through	Unknown CSP/MSP problem. ReIPL, if sign-on screen comes up, use ERAP to obtain a new SRC. Otherwise, use SRC from reIPL.
1702	B1-CD/S B1-G B1-A Featpwr A1-BD B1-BD	40 35 15 5 1 1	XXXXXX 92X3222 92X7359 ----- 1035526 1035395 69X7333 92X7296	Feature Card/s Main Storage Card Feature IOP Feature Power Supply Europe/Mid-East/Africa All Others A1 Board Feature board	Intermittent errors or IOP Feature is inactive and timed out or IOP Feature Software Error if offset PCIBERRNM in (MS ADDRESS 10021-22) PCIB is not zero call for software support and run APAR to collect data. Else power off system. Re-IPL, if error continues See Procedure 156 for Feature Isolation.
170E	Program				Invalid tape volume sequence check * Wrong tape volume -
1710	Program				Command not valid
1711	Program				End of Volume encountered normal - completion.
1713	Program				Invalid command modifier.
1714	Program				Invalid tape data length associated with command.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1716	Program				Invalid command in write mode.
1717	Program				Invalid command in read mode.
1718	Program				Invalid command with file open.
1719	Program				Invalid command with file closed.
171A	Program				Invalid command with file suspended.
171C	Program				Invalid command with tape at beginning of tape.
171E	Program				Invalid command with file not suspended.
171F	Program				Invalid command sequence.
1721	Program				Invalid command invalid label.
1723	Program				Command not valid with tape not at Gap 0
1726	Program				Invalid file number specified.
1728	Program				Indeterminate error
172A	Program				MSP buffer not large enough on a read / write block command
172b	T Unit Program	95	92X3382	Tape Unit	Data block contains invalid data on a read command
172F	Program				File is on previous tape volume. * Wrong tape cartridge, file not on this tape.
1734	Program				Data length shorter than requested
1735	T Unit T card B1-A Program	85 10 2	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Invalid volume ID * Blank cartridge or not IBM SL format.
1736	T Unit Program	95	92X3382	Tape Unit	LEOT found searching for label * Wrong cartridge, file not on tape

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1738	T Unit T card B1-A Program	85 10 2	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	File block counter not equal to count in trailer label or block descriptor * IOCH code
1739	T Unit T card B1-A Program	85 10 2	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Invalid header label Cartridge not IBM format.
173A	T Unit	95	92X3382	Tape Unit	Beginning of tape found, but not expected.
173b	T Unit T card B1-A Program	85 10 2	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Invalid trailer label Cartridge not IBM format.
173C	Program				Previous device-to-device op failed
173d	T Unit Program	95	92X3382	Tape Unit	Invalid file mark encountered Cartridge not IBM format.
173E	T Unit T card B1-A Program	85 10 2	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Invalid tape format.
173F	Program				Write attempted without retension or erase.
1741	T Unit T card B1-A	55 40 2	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Bad parity on tape bus during read * Run tape OLPD. Reseat card and cable before replacing FRU'S.
1742	T card T Unit	55 40	92X3360 92X3382	Tape Adpt Cd Tape Unit	Unable to reset ready end or exception interrupt. * Run tape OLPD. Reseat card and cable before replacing FRU's.
1743	T Unit T card B1-A	55 40 2	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Timeout waiting for command termination * Run tape OLPD. Reseat cable before replacing FRU'S.
1745	Program				Data length longer than requested

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1746	T Unit T card B1-A	75 20 2	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Exception is on unexpectedly * Run tape OLPD. Reseat card and cable before replacing FRU's.
1747	T Unit T card B1-A	50 40 7	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Drive not ready to accept command * Run tape OLPD. Reseat card and cable before replacing FRU's.
1748	T Unit T card B1-A	50 40 5	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	No ready response when command issued * Run tape OLPD. Reseat card and cable before replacing FRU'S.
174b	T card T Unit B1-A	85 10 2	92X3360 92X3382 92X7359	Tape Adpt Cd Tape Unit Feature IOP	Unexpected interrupt by the Tape DLC * Run tape OLPD. Reseat card and cable before replacing FRU'S.
1750	T Unit T card B1-A Featpwr	60 35 2	92X3382 92X3360 92X7359 ----- 1035526 1035395	Tape Unit Tape Adpt Cd Feature IOP Feature Power Supply Europe/Mid-East/Africa All Others	Reset command failed to reset interface. * Run tape OLPD. Reseat card and cable before replacing FRU's.
1751	T Unit T card B1-A	85 10 2	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Reset command failed * Run tape OLPD. Reseat card and cable before replacing FRU'S.
1753	T card T Unit B1-A	60 35 2	92X3360 92X3382 92X7359	Tape Adpt Cd Tape Unit Feature IOP	Tape data in parity check during command response * Run tape OLPD. Reseat card and cable before replacing FRU'S.
1766	Media T Unit	90 5	92X3382	Tape Unit	Write abort. * Operator may have moved loading lever on tape drive unit while drive in operation. If unable to separate media/operator/hardware run tape OLPD.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1768	Media T Unit	90 5	92X3382	Tape Unit	EOM detected while executing command * If unable to separate media/operator/hardware run tape OLPD.
1769	Media T Unit	90 5	92X3382	Tape Unit	Read error. No data detected & EOM detected.
176b	Media T Unit	90 5	92X3382	Tape Unit	Read error. Bad block transferred. * If unable to separate media/operator/hardware run tape OLPD.
176C	Media T Unit	90 5	92X3382	Tape Unit	Read error. Filler block transferred * If unable to separate media/operator/hardware run tape OLPD.
176d	Media T Unit	90 5	92X3382	Tape Unit	Read error. No data detected & BOM detected/ * If unable to separate media/operator/hardware run tape OLPD.
1770	T card T Unit	60 30	92X3360 92X3382	Tape Adpt Cd Tape Unit	Illegal Tape command specified * Run tape OLPD. Reseat card and cable before replacing FRU'S.
1771	T card T Unit B1-A	65 30 2	92X3360 92X3382 92X7359	Tape Adpt Cd Tape Unit Feature IOP	Bad parity on Tape bus during write * Run tape OLPD. Reseat card and cable before replacing FRU'S.
1772	Media T Unit Featpwr	70 30 10	92X3382 ----- 1035526 1035395	Tape Unit Feature Power Supply Europe/Mid-East/Africa All Others	Catastrophic error. * Media potential. Verify cartridge turns freely, etc. Run OLPD.
1773	T Unit T card B1-A	50 35 12	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Unexpected exception (status byte) condition Invalid status from drive.
1774	T Unit	95	92X3382	Tape Unit	Unexpected power On/Reset detected

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1781	Oper T Unit	90 5	----- 92X3382	Operator error Tape Unit	* No tape cartridge or cartridge not in place. Operator may have moved loading lever on tape drive unit while drive in operation. If unable to separate media/operator/hardware run tape OLPD.
17A6	Oper T Unit	80 15	----- 92X3382	Operator error Tape Unit	Tape file protected on write operation * Inspect cartridge case to verify the media is wound on both reels and is visible through the door on the cartridge. If unable to separate media/operator/hardware run tape OLPD.
17E0	T Unit T card B1-A	55 30 10	92X3382 92X3360 92X7359	Tape Unit Tape Adpt Cd Feature IOP	Self Test Invalid format results returned from drive * Run tape OLPD. Reseat card and cable before replacing FRU'S.
17E1	T Unit Media	95	92X3382	Tape Unit	Self Test Speed or Sensor error encountered. * Verify the media is wound on both reels and is visible through the door on the cartridge. Verify the cartridge is installed correctly.
17F0	T card	95	92X3360	Tape Adpt Cd	Adapter error Reseat card and cable before replacing FRU's.
17F2	Program				Displayed OLPD screen is invalid with this SRC.
17F5	T card	95	92X3360	Tape Adpt Cd	Adapter error. Reseat card.
17F7	Program				Undetermined error during OLPD wraps.
17F9	T Unit	95	92X3382	Tape Unit	Tape Unit error.
17Fb	T Unit	95	92X3382	Tape Unit	File mark not read during OLPD.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
17FC	T Unit T card	75 25	92X3382 92X3360	Tape Unit Tape Adpt Cd	Data compare error during OLPD.
17Fd	Oper T Unit	70 25	----- 92X3382	Operator error Tape Unit	Cartridge not write protected during OLPD.
1800					No failure detected. See Procedure 910 in MIM.
1801	SDLC cd	99	8286099	SDLC card	SDLC communication adapter failure. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
1802	BSC1 cd	99	8286098	Prim BSC Card	BSC communication adapter failure. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
1803	BSC2 cd	99	8286098	Secondary BSC Card	BSC communication adapter failure. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
1804		99			ASYNc communication adapter failure. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
1805	ASY2 cd	99	8286147	Secondary Async card	ASYNc communication adapter failure. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
1806	SDLC cd SDLCcbl Featpwr	50 40 10	8286099 92X7325 ----- 1035526 1035395	SDLC card SDLC cable Feature Power Supply Europe/Mid-East/Africa All Others	SDLC card or cable failure. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1807	BSC1 cd BSC1cbl Featpwr	50 40 10	8286098 92X7325 ----- 1035526 1035395	Prim BSC Card Primary BSC cable Feature Power Supply Europe/Mid-East/Africa All Others	BSC card or cable failure. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
1808	BSC2 cd BSC2cbl Featpwr	50 40 10	8286098 92X7325 ----- 1035526 1035395	Secondary BSC Card Secondary BSC cable Feature Power Supply Europe/Mid-East/Africa All Others	BSC card or cable failure. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
1809	ASY1 cd ASY1cbl Featpwr	50 40 10	8286147 92X7323 ----- 1035526 1035395	Primary Async Card Primary Async cable Feature Power Supply Europe/Mid-East/Africa All Others	ASYNCR card or cable failure. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
180A	ASY2 cd ASY2cbl Featpwr	50 40 10	8286147 92X7323 ----- 1035526 1035395	Secondary Async card Secondary Async cable Feature Power Supply Europe/Mid-East/Africa All Others	ASYNCR card or cable failure. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
180B	SDLCcbl	99	92X7325	SDLC cable	SDLC cable bad. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
180C	BSC1cbl	99	92X7325	Primary BSC cable	BSC cable bad. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
180D	BSC2cbl	99	92X7325	Secondary BSC cable	BSC cable bad. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
180E	ASY1cbl	99	92X7323	Primary Async cable	ASYNCR cable bad. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
180F	ASY2cbl	99	92X7323	Secondary Async cable	ASYNC cable bad. Basic communication diagnostic test failure. Ensure that card and cable are seated before replacing FRU.
1830					BSC receive time-out data mode. This SRC will appear only in the error log.
1831					BSC not data set ready. This SRC will appear only in the error log.
1832					BSC abortive disconnect. This SRC will appear only in the error log.
1833					BSC receive adapter check. This SRC will appear only in the error log.
1834					BSC transmit adapter mode. This SRC will appear only in the error log.
1835					BSC block check (LRC/CRC/VRC) error. This SRC will appear only in the error log.
1836					BSC receive time-out. This SRC will appear only in the error log.
1837					BSC invalid ASCII chara. This SRC will appear only in the error log.
1838					SDLC adapter check (overrun/underrun). This SRC will appear only in the error log.
183A					SDLC not data set ready. This SRC will appear only in the error log.
183B					SDLC time-out (if primary station, this is a 16-second non-productive time-out. If secondary, this is a 32-second inactivity time-out). This SRC will appear only in the error log.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
183C					SDLC idle detected. This SRC will appear only in the error log.
183D					SDLC invalid frame. This SRC will appear only in the error log.
183E					SDLC frame check (data). This SRC will appear only in the error log.
183F					SDLC receive buffer overrun. This SRC will appear only in the error log.
189B	ARTIC	99	60X8192	Realtime Co-Proc(ARTIC)	Basic communications diagnostic test failure. Ensure the ARTIC and RS-232-C interface board is jumpered correctly and that the card is seated before replacing the FRU.
189C	RS-232C CABLE ARTIC Featpwr	40 40 10 10	58X7285 92X7324 60X8192 ----- 1035526 1035395	Line 3(Port A) elec Int. Line 3 modem attach cbl Realtime Co-Proc(ARTIC) Feature Power Supply Europe/Mid-East/Africa All Others	Basic communication diagnostic test failure. Ensure the ARTIC and RS-232-C Interface Board is jumpered correctly and that the cards and cables are seated before replacing FRUs. Ref procedure 984 in the MIM.
189D	RS-232C CABLE ARTIC Featpwr	40 40 10 10	58X7285 92X7324 60X8192 ----- 1035526 1035395	Line 4(Port B) elec Int. Line 4 modem attach cbl Realtime Co-Proc(ARTIC) Feature Power Supply Europe/Mid-East/Africa All Others	Basic communication diagnostic test failure. Ensure the ARTIC and RS-232-C Interface Board is jumpered correctly and that the cards and cables are seated before replacing FRUs.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
189E	B1-CD/S B1-G B1-A Featpwr A1-BD B1-BD	50 25 15 5 1 1	xxxxxxx 92X3222 92X7359 ----- 1035526 1035395 69X7333 92X7296	Feature Card/s Main Storage Card Feature IOP Feature Power Supply Europe/Mid-East/Africa All Others A1 Board Feature board	Intermittent errors or IOP feature is inactive and timed out or IOP Feature Software Error Power off system. Re-IPL, If error continues see procedure 156 for Feature Isolation. If offset PCIBERRNM in (M address 10021-22) PCIB is not zero call for software support and run APAR to collect data.
18B0	Program				Line allocation failed (return code not recognized) or test selection is invalid. OLPD program error.
18BF	Program				Test or test selection is invalid (program error).
18d0					Asynchronous receive parity error.
18d1					Asynchronous transmit adapter check.
18d2					Asynchronous receive overrun.
18d3					Asynchronous invalid stop bit.
18d4					Asynchronous break detected.
18d5					Asynchronous not clear to send.
18d6					Asynchronous not data set ready.
18d7					Asynchronous receive without DSR.
18FE					Unknown error. This SRC will appear only in the error log.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
190E					Permanent ECC check. See procedure 121 in the MIM for more information Run BUILD procedure first. If problem continues, look in ERAP to determine which drive has SRCs 193C and initialize the failing drive.
1931	A1D2 A1C2 Drive A or Drive B	70 10 10	92X3294 92X3224 69X6909 92X7320 69X6909 92X7320	Data Storage Adapter Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB	Unrecoverable Drive A error. Replace Data storage Adapter and Disk Adapter cards first. If that does not solve the problem execute procedure 804 and then Procedure 121 in the MIM.
1932	A1C2 Drive A A1D2	50 35 15	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Data Storage Adapter	Unrecoverable Drive A error. See procedure 121 in the MIM.
1933	A1C2 Drive B A1D2	50 35 15	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive B 65MB Disk Drive B 105MB Data Storage Adapter	Unrecoverable Drive B error. See Procedure 121 in the MIM.
1934	A1C2 A1D2	50 50	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Unexpected interrupt. See procedure 121 in the MIM.
1935	A1C2 A1D2 Drive A or Drive B	40 40 10	92X3224 92X3294 69X6909 69X6909	Disk Adapter Card Data Storage Adapter Disk Drive A 65MB Disk Drive B 65MB	Interrupt timeout. Replace Data Storage card and Disk Adapter cards first. If that does not solve the problem, reference procedure 804 and then procedure 121 in the MIM.
1936	A1D2 A1C2	50 40	92X3294 92X3224	Data Storage Adapter Disk Adapter Card	Parity or DLC timeout check. See Procedure 121 in the MIM.
1937	A1D2	90	92X3294	Data Storage Adapter	DMA address or parity check. See Procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1938	A1C2 A1D2 J26&27	70 20 2	92X3224 92X3294 92X3300	Disk Adapter Card Data Storage Adapter Disk Cable Asm	Cable continuity. Reseat cable J26&27 and reIPL with wraps. See Procedure 121 in the MIM.
1939	A1C2 A1D2	75 25	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Interface error. See Procedure 121 in the MIM.
193A	A1C2 A1D2	80 20	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Adapter failure. See Procedure 121 in the MIM.
193B					Full or no alternate table ReIPL and run initialize on the drive called out in erap. See procedure 121 in the MIM.
193C	A1C2 Drive A or Drive B	60 30	92X3224 69X6909 92X7320 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB	Media error. Run BUILD procedure first. If problem continues, replace Disk Adapter card. See procedure 121 in the MIM.
193D	Drive A or Drive B A1C2	70 25	69X6909 92X7320 69X6909 92X7320 92X3224	Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB Disk Adapter Card	Drive error. Check erap for the drive in error. See Procedure 121 in the MIM
193E	A1C2 A1D2	65 30	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Data overrun check. See procedure 121 in the MIM.
194A	A1C2 Drive A	65 30	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB	Drive A error. Run BUILD procedure first. If problem continues, reload microcode and SSP. Exchange FRUs only if problem continues. See procedure 121 in the MIM.
194B	A1C2 Drive B	65 30	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive B 65MB Disk Drive B 105MB	Drive B error. Run BUILD procedure first. If problem continues, initialize drive B. Exchange FRUs only if problem continues. See procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
197F					Unable to determine the cause of failure. See procedure 121 in the MIM.
19B5	A1C2 A1D2 Drive A or Drive B	45 40 10 5	92X3224 92X3294 69X6909 92X7320 69X6909 92X7320	Disk Adapter Card Data Storage Adapter Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB	Interrupt timeout. Replace Disk adapter card and Data Storage Adapter card first If that does not solve the problem, see Procedure 804 and Procedure 121 in the MIM.
19B6	A1D2 A1C2	55 40	92X3294 92X3224	Data Storage Adapter Disk Adapter Card	Parity or DLC timeout check. See procedure 121 in the MIM.
19B7	A1D2	90	92X3294	Data Storage Adapter	DMA address or parity check. See procedure 121 in the MIM.
19B8	A1C2 A1D2 J26&27	70 20 7	92X3224 92X3294 92X3300	Disk Adapter Card Data Storage Adapter Disk Cable Asm	Cable continuity. Reseat cable J26&27 & reIPL with wraps. See procedure 121 in the MIM.
19B9	A1C2 A1D2	75 25	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Interface error. See procedure 121 in the MIM.
19BA	A1C2 A1D2	80 20	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Adapter failure. See procedure 121 in the MIM.
19BB					Full or no alternate table ReIPL and run initialize on the drive called out in Erap. See procedure 121 in the MIM.
19BC	A1C2 Drive A or Drive B	60 30 25	92X3224 69X6909 92X7320 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB	Temporary media error. Change the Disk Adapter Card. If the problem continues, reference procedure 804 and then procedure 121 in the MIM.
19BD	Drive A or Drive B A1C2	70 25 25	69X6909 92X7320 69X6909 92X7320 92X3224	Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB Disk Adapter Card	Data overrun check. Reference procedure 804 than procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
19BE	A1C2 A1D2	60 30	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Drive error. Check crap for the drive in error. See procedure 121 in the MIM.
19FF					Unable to determine the cause of failure. Data overrun check reference procedure 804. Then procedure 121 in the MIM.
1C00	A1E2 A1F2 A1E2	50 45 5	92X3296 92X3221 92X3296	WS Controller feature WS Adptr/panel/PT WS Controller feature	Work station adapter default code. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRU indicated.
1C01	A1F2 A1E2	65 30	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The system has a processor check caused by the work station attachment. IPL system and use IPL SRC for FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C01 SRC.
1C02	A1E2 A1F2 A1E2	90 5 5	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller failed. IPL system and use IPL SRC for FRU isolation. If there is no IPL SRC, replace FRU indicated by 1C02 SRC.
1C03	A1F2 A1E2 A1E2	85 10 5	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station adapter didn't complete its cycle steal operation. IPL system and use IPL SRC for FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C03 SRC.
1C05	A1F2 A1E2 A1E2	75 20 5	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The Work Station adapter has a hardware error but completed it's cycle steal operation. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C05 SRC.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1C10	A1F2 A1E2 A1G2 A1E2	60 20 15 5	92X3221 92X3296 92X3293 92X3295	WS Adptr/panel/PT WS Controller feature CSP card WS Pass Through	Base Work Station adapter default code. IPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C10 SRC.
1C11	A1F2 A1G2 A1E2 A1E2	60 30 9 1	92X3221 92X3293 92X3296 92X3295	WS Adptr/panel/PT CSP card WS Controller feature WS Pass Through	System has a processor check caused by a work station hardware error. ReIPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs. indicated by 1C11 SRC.
1C13	A1F2 A1E2 A1G2 A1E2	70 10 10 10	92X3221 92X3296 92X3293 92X3295	WS Adptr/panel/PT WS Controller feature CSP card WS Pass Through	The work station adapter did not complete its cycle steal operation. ReIPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRUs indicated by 1C13.
1C15	A1F2 A1E2 A1E2	80 15 5	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station adapter has a hardware error but completed its cycle steal. ReIPL system and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRU.
1D01	A1D2 A1C2	95 5	92X3294 92X3224	Data Storage Adapter Disk Adapter Card	Attachment data bus parity check command reject, load parity check command/sense parity check, adapter senses parity check, buffer write check.
1D02	Dskt Dr A1D2 J25	69 30 1	59X4098 92X3294 92X3301	Diskette Drive Asm Data Storage Adapter Diskette Cable Asm	Interface or interrupt timeout. See diskette drive failures in the MIM.
1D03	A1D2 A1F2 A1E2 A1-BD A1E2	30 25 20 10 5	92X3294 92X3221 92X3296 69X7333 92X3295	Data Storage Adapter WS Adptr/panel/PT WS Controller feature A1 Board WS Pass Through	Cycle steal parity check.
1D05	A1D2 A1G2	85 15	92X3294 92X3293	Data Storage Adapter CSP card	Overrun or underrun.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
1D06	A1D2 Dskt Dr J25	80 19 1	92X3294 59X4098 92X3301	Data Storage Adapter Diskette Drive Asm Diskette Cable Asm	Write gate wrap check, unsafe. See diskette drive failures in the Maintenance Information
1D0A	Oper Dskt Dr A1D2 J25 Bse Pwr	60 36 2 1 1	----- 59X4098 92X3294 92X3301 1035350	Operator error Diskette Drive Asm Data Storage Adapter Diskette Cable Asm Base Power Supply	Diskette not at speed (stopped, slow or fast). No diskette in drive. Diskette inserted wrong. cable. See diskette failures in the MIM. This SRC can occur if the diskette drive is not receiving power, check for + 5V and + 12V on the diskette power cable. (See procedure 604 in the MIM).
1D0B	User Program	95			The system issued an invalid or unsupported command to the diskette microcode (noop).
1D0C	A1D2 Dskt Dr J25	45 54 1	92X3294 59X4098 92X3301	Data Storage Adapter Diskette Drive Asm Diskette Cable Asm	Cylinder mismatch. Invalid seek control. See diskette drive failures in the MIM.
1D0F	Media Dskt Dr	95 3	59X4098	Diskette Drive Asm	CRC check; AM not found. ID not found; write verify unequal. If unable to separate media/operator/hardware, run diskette OLPD.
1D11	Media Dskt Dr	98 1	59X4098	Diskette Drive Asm	Cannot write to a write protected diskette. Media may have write protect tab installed.
1DA0	A1D2 Dskt Dr J25	97 2 1	92X3294 59X4098 92X3301	Data Storage Adapter Diskette Drive Asm Diskette Cable Asm	Error while running wraps to attachment card. See diskette failures in the MIM.
1DA1	Dskt Dr A1D2 J25	95 4 1	59X4098 92X3294 92X3301	Diskette Drive Asm Data Storage Adapter Diskette Cable Asm	Cannot read cylinder 0 head 0. See diskette failures in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
IDA2	Dskt Dr A1D2 J25	96 3 1	59X4098 92X3294 92X3301	Diskette Drive Asm Data Storage Adapter Diskette Cable Asm	Worn head test fails on head 0. See diskette failures in the MIM.
IDA3	Dskt Dr A1D2 J25	96 3 1	59X4098 92X3294 92X3301	Diskette Drive Asm Data Storage Adapter Diskette Cable Asm	Worn head test fails on head 1. See diskette failures in the MIM.
IDA4	Dskt Dr A1D2 J25	96 3 1	59X4098 92X3294 92X3301	Diskette Drive Asm Data Storage Adapter Diskette Cable Asm	Worn head test fails on both head 0 and head 1. See diskette failures in the MIM.
IDA5	Dskt Dr A1D2 J25	96 3 1	59X4098 92X3294 92X3301	Diskette Drive Asm Data Storage Adapter Diskette Cable Asm	Scan test fails (hardware error) drive test ran good See diskette failures in the MIM.
2000					Load hardware registers. Enable timer. Run auto-configure/customize. Re-IPL with wraps.
2001					Initialize nucleus. Build page tables. Build system control blocks. Problem due to bad memory or incorrect memory configuration. Run auto-configure/customize. Re-IPL with wraps.
2002					Initialize main storage. Problem due to bad memory or incorrect memory configuration. Run auto-configure/customize. Re-IPL with wraps.
2003					Check last 9 pages of main store. Problem due to (at least) one of the last 9 pages of main store being bad.
2010					Initialize fixed nucleus. Build resident ACE's and IOB's. Run auto-configure/customize. Re-IPL with wraps.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2012					First disk operation. Read in Control Store Library. Problem due to bad disk hardware or incorrect disk configuration. Run auto-configure/customize. Re-IPL with wraps.
2013					Process Control Store Library. Problem due to error in CS directory or in processing it. Run auto-configure/customize. Re-IPL with wraps.
2014					Process UDT. Problem due to error in UDT or in processing it. Run auto-configure/customize. Re-IPL with wraps.
2016					Initialize I/O logging tables. Call logging module \$IPLOG. Problem due to logging tables or disk errors. Run auto-configure Customize. Re-IPL with wraps.
201C					IPL the work station controller. Problem due to loading controller code or the actual WSC. Run auto-configure/customize. Re-IPL with wraps.
2021					Read in Main Storage bootstrap code from disk. Problem due to disk error. Run auto-configure/customize. Re-IPL with wraps.
2030					Load tape and diskette microcode. Problem due to disk error. Run auto-configure/customize. Re-IPL with wraps.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2034					Set for diskette reload. Issue Recalibrate command. Problem due to diskette drive error or system configuration. Run auto-configure/customize. Re-IPL with wraps.
2035					Read volume label from diskette. Problem due to incorrect insertion of diskette, no diskette inserted, or bad diskette drive. Check diskette and diskette drive. Run auto-configure/customize. Re-IPL with wraps.
2036					Read in main storage bootstrap code from diskette. Problem due to diskette or diskette drive error. Check diskette and diskette drive. Run auto-configure/customize. Re-IPL with wraps.
2050					Set up for tape. Issue Cancel command. Problem due to tape drive or configuration. Run auto-configure/customize. Re-IPL with wraps.
2051					Set up for tape. Issue Mode Set command. Problem due to tape drive or configuration. Run auto-configure/customize. Re-IPL with wraps.
2052					Read volume ID from tape. Problem due to tape or tape drive. Tape was specified as the only device for reload, but the tape is an unlabeled tape. Check tape and tape drive. Run auto-configure/customize. Re-IPL with wraps.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2053					Read label from tape. Problem due to tape or tape drive. Tape was specified as the only device for reload, but the tape is not an IPL tape. Check tape and tape drive. An MS IPL can be performed from diskette by using default reload parameters.
2054					Read Main storage bootstrap code from tape. Problem due to tape or tape drive. Run auto-configure/customize. Re-IPL with wraps.
2100	A1D2 A1G2 A1F2 A1E2 B1-G A1C2 A1E2 A1-BD	50 40 2 2 2 2 1 1	92X3294 92X3293 92X3221 92X3296 92X3222 92X3224 92X3295 69X7333	Data Storage Adapter CSP card WS Adptr/panel/PT WS Controller feature Main Storage Card Disk Adapter Card WS Pass Through A1 Board	DSA not found. Channel failure. Go to channel isolation procedure 155 in the MIM.
2101	A1D2 A1C2 A1-BD	93 5 2	92X3294 92X3224 69X7333	Data Storage Adapter Disk Adapter Card A1 Board	Attachment data bus parity check, command reject, load parity check, command/sense parity check adapter sensed parity check, buffer write check
2102	Dskt Dr A1D2 J25	69 30 1	59X4098 92X3294 92X3301	Diskette Drive Asm Data Storage Adapter, Diskette Cable Asm	Interrupt timeout. See diskette failure in the MIM.
2103	A1D2 A1G2 A1F2 A1E2	90 4 3 3	92X3294 92X3293 92X3221 92X3296	Data Storage Adapter CSP card WS Adptr/panel/PT WS Controller feature	Cycle steal parity check.
2105	A1D2 A1G2	90 5	92X3294 92X3293	Data Storage Adapter CSP card	Overrun/underrun.
2106	A1D2 Dskt Dr J25	50 49 1	92X3294 59X4098 92X3301	Data Storage Adapter Diskette Drive Asm Diskette Cable Asm	Write gate wrap check, unsafe. See diskette failures in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
210A	Operate Dskt Dr A1D2 J25 Bse Pwr	60 36 2 1 1	59X4098 92X3294 92X3301 1035350	Diskette Drive Asm Data Storage Adapter Diskette Cable Asm Base Power Supply	Diskette stopped/slow, or fast, no diskette in drive, diskette inserted wrong. See diskette failures in the MIM.
210C	Dskt Dr A1D2 J25	98 1 1	59X4098 92X3294 92X3301	Diskette Drive Asm Data Storage Adapter Diskette Cable Asm	Cylinder mismatch, invalid seek control. See diskette failures in the MIM.
210F	Dskt Dr A1D2 J25	98 1 1	59X4098 92X3294 92X3301	Diskette Drive Asm Data Storage Adapter Diskette Cable Asm	Write verify unequal, CRC check, AM2 not found, ID not found. Diagnostic media is assumed to be good. See diskette failures in the MIM.
2110	A1D2 A1C2 A1G2 A1F2 A1E2 B1-G A1-BD	50 30 12 2 2 2 1	92X3294 92X3224 92X3293 92X3221 92X3296 92X3222 69X7333	Data Storage Adapter Disk Adapter Card CSP card WS Adptr/panel/PT WS Controller feature Main Storage Card A1 Board	Buffer adapter wraps failed. Replace DSA Disk Adapter Card and CSP. Check after each. If that fails to correct problem then go to Channel isolation procedure 155 in the MIM.
2120	A1D2 A1C2	65 35	92X3294 92X3224	Data Storage Adapter Disk Adapter Card	Parity Check test failed.
2130	A1D2 Dskt Dr A1G2 A1F2 A1E2 B1-G A1C2 A1-Bd Bse Pwr	80 5 3 2 2 2 2 1 2	92X3294 59X4098 92X3293 92X3221 92X3296 92X3222 92X3224 1035350	Data Storage Adapter Diskette Drive Asm CSP card WS Adptr/panel/PT WS Controller feature Main Storage Card Disk Adapter Card Base Power Supply	Diskette DLC wraps failed. ReIPL before replacing any FRUs. See diskette failures in the MIM. Check -5v before replacing any FRUs.
2150	A1D2	95	92X3294	Data Storage Adapter	DSA wraps complete, loader failed.
22A0					--IPL Disk Loader-- Failure before 1st load. Reload PC diskette code. See procedure 121 in the MIM.
22A1	A1C2 Drive A	85 15	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB	No valid alternate. Initialize Drive A before replacing any FRUs. See procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
22A2	A1C2 Drive A	50 50	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB	Timeout error. See procedure 121 in the MIM.
22A3	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Channel interface error. Check top card connector before replacing any FRUs. See procedure 121 in the MIM.
22A4	A1C2 A1D2	50 45	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	DPC parity error. See procedure 121 in the MIM.
22A5	A1C2 Drive A A1D2	65 20 10	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Data Storage Adapter	DMA parity error. Reseat cable J26&27 and top card connector and reIPL with wraps. See procedure 121 in the MIM.
22A6	A1C2 Drive A J26&27	45 40 15	92X3224 69X6909 92X7320 92X3300	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Cable Asm	Cable continuity error. Reseat cable J26&27 and reIPL with wraps. See procedure 121 in the MIM.
22A7	A1C2 Drive A J26&27	60 30 7	92X3224 69X6909 92X7320 92X3300	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Cable Asm	Loader media error. Exchange Disk Adapter card first. If problem continues see procedure 121 in the MIM. Exchange Drive A only if problem continues.
22A8	Drive A A1C2	70 30	69X6909 92X7320 92X3224	Disk Drive A 65MB Disk Drive A 105MB Disk Adapter Card	Drive error. Reseat cable Reseat cable J26&27 and ReIPL with wraps. See procedure 121 in the MIM.
22A9					-- DISK LOAD COMPLETE Code loaded was invalid. Reload microcode. See procedure 121 in the MIM.
2400	Program				CDKTABLE not found, CSU diskette is bad. See Setting Up Your Computer Manual.
2401	Program				SYSTEM CONSOLE entry n in TEMP UDT. See Setting Up Your Computer Manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2402	Program				DISK entry not in TEMP UD See Setting Up Your Computer Manual.
2403	Program				MSP entry not in TEMP UD See Setting Up Your Computer Manual.
2404	Program				SYSTEM entry not in TEMP UDT. See Setting Up Your Computer Manual.
2405	Program				WSC entry not in TEMP UD See Setting Up Your Computer Manual.
240A	Program				MSP entry not in SYSTEM UDT. See Setting Up Your Computer Manual.
240C	Program				WSC entry not in SYSTEM UDT. See Setting Up Your Computer Manual.
240E	Program				2K bad page entry. See Setting Up Your Computer Manual.
240F	Program				SYSTEM entry not in SYSTE UDT. See Setting Up Your Computer Manual.
2410	Program				Invalid WSC inboard/out- board ID in UDT. See Setting Up Your Computer Manual.
2411	Program				Diskette read error, CSU diskette is bad. See Setting Up Your Computer Manual.
2412	Program				Disk read error. Run disk problem determination procedures. See Setting Up Your Computer Manual.
2414	Program				Incorrect IPL option, reIPL. See Setting Up Your Computer Manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2416	Program				No bus coupler present (WSC feature not installed /removed correctly) See Setting Up Your Computer Manual.
2417	Program				Wrong bus coupler initial address loaded as the WSC bus coupler. See Setting Up Your Computer Manual.
2418	Program				Invalid CE Panel value for the IPL mode. See Setting Up Your Computer Manual.
2450	Program				Module not found on diskette. Diskette is bad. See Setting Up Your Computer Manual.
2451	Program				Module too large to load. See Setting Up Your Computer Manual.
2452	Program				Diskette I/O error or invalid control block. Diskette is bad. See Setting Up Your Computer Manual.
2453	Program				Load module not found on diskette. See Setting Up Your Computer Manual.
2454	Program				TU not found in load module. See Setting Up Your Computer Manual.
2455	Program				Diskette I/O error. Diskette is bad. See Setting Up Your Computer Manual.
2456	Program				Function not supported. See Setting Up Your Computer Manual.
2457	Program				Wrong diskette inserted. See Setting Up Your Computer Manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
2458	Program				CSU verification supervisor not found. Ensure that @PCIOOSS is customized to disk. See Setting Up Your Computer Manual.
2459	Program				Bad Main Store 2K Page. Found in area required for 16 workstations.
24A0	Custmiz Program				Unresolved extern associated with RLD type 7 See Setting Up Your Computer Manual.
24A1	Custmiz Program				RLD type 7 extern references an entry in a relocatable module. See Setting Up Your Computer Manual.
24A2	Custmiz Program				Diskette has wrong P/N. Verify LEVEL table and diskette P/N. See Setting Up Your Computer Manual.
24A3	Custmiz Program				Microcode level table does not exist. See Setting Up Your Computer Manual.
24A4	Custmiz Program				CSDIR table is full. See Setting Up Your Computer Manual.
24A5	Custmiz Program				Entry table is full. See Setting Up Your Computer Manual.
24A6	Custmiz Program				A module has an overlay module that is not in the CSDIR. See Setting Up Your Computer Manual.
24A7	Custmiz Program				A module has an overlay module that is incorrectly defined. See Setting Up Your Computer Manual.
24A8	Custmiz Program				All guaranteed good sectors are used. See Setting Up Your Computer Manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
24A9	Custmiz Program				Microcode has exceeded disk space allowed. Increase size of CSLIB. See Setting Up Your Computer Manual.
24AA	Custmiz Program				An external label could not be resolved. See Setting Up Your Computer Manual.
24AC	Custmiz Program				Invalid external label type associated with RLD. See Setting Up Your Computer Manual.
24AE	Custmiz Program				Invalid XTRN2 type for RLD type. See Setting Up Your Computer Manual.
24AF	Custmiz Program				A required module could not be found in the CSDIR. See Setting Up Your Computer Manual.
24C0	Custmiz Program				Machine check log work area is not in the CSDIR. See Setting Up Your Computer Manual.
24C1	Custmiz Program				An oxref module ID is not found in the CSDIR. See Setting Up Your Computer Manual.
24C2	Custmiz Program				Invalid RLD type. See Setting Up Your Computer Manual.
24C3	Custmiz Program				Exceeded space allowed for RLD data. See Setting Up Your Computer Manual.
24C4	Custmiz Program				Extern table is full. See Setting Up Your Computer Manual.
24C5	Custmiz Program				Exceeded space allowed for RLD data. See Setting Up Your Computer Manual.
24C6	Custmiz Program				Dependency table not found. Verify \$DEPEND on DSKT2. See Setting Up Your Computer Manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
24C7	Custmiz Program				Invalid dependency table operation value. See Setting Up Your Computer Manual.
24C8	Custmiz Program				A dependency entry cannot be found. See Setting Up Your Computer Manual.
24C9	Custmiz Program				A base module referenced by the dependency table could not be found. See Setting Up Your Computer Manual.
24CA	Custmiz Program				The relocatable RLD table is full. See Setting Up Your Computer Manual.
24CC	Custmiz Program				Diskette I/O error.
24E3	Custmiz Program				The RPQ table in the microcode level table is full.
24E4	Custmiz Program				The first message library is not on the diskette.
24E5	Custmiz Program				The second message library is not on the diskette.
24E6	Custmiz Program				The third message library is not on the diskette.
24E7	Custmiz Program				The fourth message library is not on the diskette.
24E8	Custmiz Program				The display code is not on the microcode diskette.
24E9	Custmiz Program				The PARM table is not on the microcode diskette.
24EA	Custmiz Program				An invalid screen number was specified or screen not found.
24EE	Custmiz Program				An invalid message number was specified or message not found.
24EF	Custmiz Program				Diskette I/O error.
24FF	Custmiz Program				Program error. See Setting Up Your Computer Manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
3006	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Permanent disk error. Dump could not be taken. ReIPL with wraps before replacing any FRUs. See procedure 121 in the MIM.
300B	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Permanent disk error. Dump could not be taken. ReIPL with wraps before replacing any FRUs. See procedure 121 in the MIM.
301E	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Permanent disk error. Dump could not be taken. ReIPL with wraps before replacing any FRUs. See procedure 121 in the MIM.
3032	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Permanent disk error. Dump could not be taken. ReIPL with wraps before replacing any FRUs. See procedure 121 in the MIM.
3035	A1C2 A1D2 Drive A or Drive B	60 30 5 5	92X3224 92X3294 69X6909 92X7320 69X6909 92X7320	Disk Adapter Card Data Storage Adapter Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB	Have customer run Build procedure. Permanent disk error. Dump could not be taken. ReIPL with wraps before replacing any FRUs. Replace Disk Adapter Card and Data Storage Adapter card first. If that fails to fix the problem, go to Procedure 804 and then Procedure 121 in the MIM.
3039	A1F2 A1E2 A1E2	75 15 10	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station controller proc checked and error status could not be logged. ReIPL and use IPL SRC for better FRU isolation. If there is no IPL SRC, replace FRU.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
3043	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Permanent disk error. Dump could not be taken. ReIPL with wraps before replacing any FRUs. See procedure 121 in the MIM.
3049					Work station error. System dump could not be taken due to error with work station controller. ReIPL with wraps.
304A					Diskette error during system dump. ReIPL with wraps.
304C	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Permanent disk error or work station error. ReIPL with wraps before replacing any FRUs.
30CA	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Permanent disk error. Dump could not be taken. ReIPL with wraps before replacing any FRUs.
30F1					Permanent disk error during condense of system library. ReIPL with wraps before replacing any FRUs.
3220	B1-A B1-CD/S	80 20	92X7359 xxxxxxx	Feature IOP Feature Card/s	Parity check in feature IOP. Check for OEM cards Installed. OEM cards not supported by IBM. See Procedure 156 for Feature Isolation.
3221	B1-G B1-A A1J2 B1-CD/S	40 30 20 10	92X3222 92X7359 92X3291 xxxxxxx	Main Storage Card Feature IOP MSP data flow card Feature Card/s	Parity check in system. Check for OEM cards Installed on B1 board. OEM cards not supported by IBM. See Procedure 156 for Feature Isolation.
3222	B1-G B1-A B1-CD/S	45 30 20	92X3222 92X7359 xxxxxxx	Main Storage Card Feature IOP Feature Card/s	ECC multiple bit error or parity check in system. Check for OEM cards installed on B1-BD. OEM cards not supported by IBM See Procedure 156 for Feature Isolation.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
4E00 to 4F1F	LAN cd B1-A LAN Program	50 30 19 01	83X9147 92X7359 PC P/N	Token Ring Adapter Card Feature IOP Token Ring Ntwk Hrdw	TR Adapter Card, IOP feature card, TR cables or Access unit. Failure Run OLPD. Call for software service
4F40	Program	99			Failure in OLPD Program - Call for software service.
4F45	Program	99			#LANLIB not found or Diag not in #LANLIB - Reapply LAN Communication Licence Program support.
4F48	LAN cbl LAN cd	70 29	6339098 83X9147	Token Ring Adapter Cable Token Ring Adapter Card	Token Ring Adapter cable or Token Ring Adapter failure.
4F49	LAN cbl	99	6339098	Token Ring Adapter Cable	Token Ring Adapter Cable Failure.
4F4A	LAN Hdw	99	-----	Token Ring Access Unit	Access Unit Failure
4F4b	P cable	99	-----	Token Ring Patch Cable	Token Ring Patch Cable Failure
4F63	LAN cd	99	83X9147	Token Ring Adapter Card	Adapter Configuration wrong, not present or failing on Line 9.
4F64	LAN cd	99	83X9147	Token Ring Adapter Card	Adapter Configuration wrong, not present or failing on line 10.
4F65	Program	99			Code error. - Reload Dskt 61 and Dskt 62.
4F70	LAN cd B1-BD	98 1	83X9147 92X7296	Token Ring Adapter Card Feature board	Token Ring Adapter Failure on Line 9 B1 Board.
4F71	NONE				Token Ring Adapter Failed on Line 9 - Run OLPD
4F72	NONE				Token Ring Beacon Signal present on Line 9 - Run OLPD
4F73	NONE				Token Ring Signal Loss on Line 9 - Run OLPD.
4F74	LAN cd B1-BD	98 1	83X9147 92X7296	Token Ring Adapter Card Feature board	Token Ring Adapter Failing on Line 10 or B1 Board failing. Run OLPD.
4F75	NONE				Token Ring Adapter Failed on Line 10 - Run OLPD.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
4F76	NONE				Token Ring Beacon Signal present on Line 10 - Run OLPD
4F77	NONE				Token Ring Signal loss on Line 10 - Run OLPD.
4F86 to 4F99	LAN cd B1-A LAN Program	50 30 19 01	83X9147 92X7359 PC P/N	Token Ring Adapter Card Feature IOP Token Ring Ntwk Hrdw	TR Adapter Card. - Run OLPD Call for software service.
5099					Module not found on diskette or diskette I/O error. CSU diskette is bad or not in the drive. See Setting Up Your Computer Manual.
50CE					The UDT is bad. CSU diskette is bad or not in drive. See Setting Up Your Computer Manual.
5100					An error occurred on the display station address X on port Y. Options are: 0 to bypass, 1 to retry. See Setting Up Your Computer Manual.
51CE					MSP error. Diskette is bad or not in the drive. See Setting Up Your Computer Manual.
5200					The work station printer address X on port Y has an unrecoverable error. Options are: 0 to bypass See Setting Up Your Computer Manual.
5210					The work station printer address X on port Y has a machine check. Options: 0 to bypass, 1 to retry. See Setting Up Your Computer Manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
5226					The work station printer address X on port Y has a graphic check. Options: 0 to bypass, 1 to retry. See Setting Up Your Computer Manual.
5230					The work station printer address X on port Y has a print check. Options: 0 to bypass, 1 to retry. See Setting Up Your Computer Manual.
5240					The work station printer address X on port Y has a forms check. Options: 0 to bypass, 1 to retry. See Setting Up Your Computer Manual.
5247					The work station printer address X on port Y has a paper jam. Options are: 0 to bypass, 1 to retry. See Setting Up Your Computer Manual.
5250					The work station printer address X on port Y is out of forms. Options: 0 to bypass, 1 to retry. See Setting Up Your Computer Manual.
5251					The work station printer address X on port Y is not ready. Options are: 0 to bypass, 1 to retry. See Setting Up Your Computer Manual.
5288					The work station printer address X on port Y has a ribbon jam. Options: 0 to bypass, 1 to retry. See Setting Up Your Computer Manual.
52CE					PMSDIF not found. Dskt is bad or not in the drive. See Setting Up Your Computer Manual.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
5362					CSU pass 1 completed correctly. The CPU mainframe functions correctly. The system console is either not attached or not working. See Setting Up Your Computer Manual.
5CCE					The system console has an error. See Setting Up Your Computer Manual.
6301	Featpwr B1-G A1G2 B1-CD/S A1-BD B1-BD	80 6 5 4 3 1	----- 1035526 1035395 92X3222 92X3293 xxxxxxx 69X7333 92X7296	Feature Power Supply Europe/Mid-East/Africa All Others Main Storage Card CSP card Feature Card/s A1 Board Feature board	Test 0C PWR 2 Good not found Reference Feature Isolation Procedure 156
6302	B1-A B1-G Featpwr A1G2 B1-CD/S B1-BD A1-BD	80 6 3 4 3 2 1	92X7359 92X3222 ----- 1035526 1035395 92X3293 xxxxxxx 92X7296 69X7333	Feature IOP Main Storage Card Feature Power Supply Europe/Mid-East/Africa All Others CSP card Feature Card/s Feature board A1 Board	Test 0D IOP Feature clock not running Reference Feature Isolation Procedure 156.
6303	B1-G A1G2 B1-CD/S A1-BD B1-BD	80 14 2 2 1	92X3222 92X3293 xxxxxxx 69X7333 92X7296	Main Storage Card CSP card Feature Card/s A1 Board Feature board	Test 0E Channel Check Bit Not wrapped. Reference Feature Isolation Procedure 156.
6304	B1-A B1-G B1-CD/S Featpwr B1-BD A1G2 A1-BD	37 30 30 10 1 1 1	92X7359 92X3222 xxxxxxx ----- 1035526 1035395 92X7296 92X3293 69X7333	Feature IOP Main Storage Card Feature Card/s Feature Power Supply Europe/Mid-East/Africa All Others Feature board CSP card A1 Board	Test of IOP Feature failed to reset Channel Check Bit. Reference Feature Isolation Procedure 156.
6305	B1-G A1G2 A1-BD B1-BD	80 16 2 1	92X3222 92X3293 69X7333 92X7296	Main Storage Card CSP card A1 Board Feature board	Test 1A IL7 Bit not wrapped 0

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
6306	B1-G A1G2 A1-BD B1-BD	80 16 2 1	92X3222 92X3293 69X7333 92X7296	Main Storage Card CSP card A1 Board Feature board	Test 1B IL7 Bit not wrapped 1
6307	B1-G B1-A T card A1G2 A1-BD B1-BD	65 15 10 7 2 1	92X3222 92X7359 92X3360 92X3293 69X7333 92X7296	Main Storage Card Feature IOP Tape Adpt Cd CSP card A1 Board Feature board	Test 1D IL1 not received or Interrupt Control Register Enable of IL7 Bit could not be wrapped.
6308	B1-A B1-G ARTIC LAN cd	50 25 10 10	92X7359 92X3222 60X8192 83X9147	Feature IOP Main Storage Card Realtime Co-Proc(ARTIC) Token Ring Adapter Card	Test 1C IL7 Interrupt failed Reference Feature Isolation Procedure 156.
6309	B1-G A1F2 A1-BD B1-BD	90 5 3 1	92X3222 92X3221 69X7333 92X7296	Main Storage Card WS Adptr/panel/PT A1 Board Feature board	Test 1C CSP Inactive Line not valid
630A	B1-G	99	92X3222	Main Storage Card	Test 2 Channel Check Bit not Detected extra bits off.
630B	B1-G T card	98 2	92X3222 92X3360	Main Storage Card Tape Adpt Cd	Test 3A ATR Registers and base ATR Window Wrap failed
630C	B1-G	99	92X3222	Main Storage Card	Test 3B ATR Register wrap 0-F failed
630D	B1-G B1-A ARTIC B1-BD	80 15 3 1	92X3222 92X7359 60X8192 92X7296	Main Storage Card Feature IOP Realtime Co-Proc(ARTIC) Feature board	Test 4A ATR CSP Write/IOP read failed address lines 13-16
630E	B1-G	99	92X3222	Main Storage Card	Test 4B ATR CSP Write/IOP Read Failed address lines 0-12
630F	B1-G B1-A ARTIC B1-BD	80 15 3 1	92X3222 92X7359 60X8192 92X7296	Main Storage Card Feature IOP Realtime Co-Proc(ARTIC) Feature board	Test 5 MS Data wrap failed Failed address lines
6310	B1-G	99	92X3222	Main Storage Card	Test 6 Failed to receive IL1 MS Arbitration test

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
6311	B1-G	99	92X3222	Main Storage Card	Test 7 ECC NMI Parity test failed.
6312	B1-G	99	92X3222	Main Storage Card	Test 8 MS Page address lines 13-22 Failed
6313	B1-G B1-A ARTIC B1-BD	80 15 3 1	92X3222 92X7359 60X8192 92X7296	Main Storage Card Feature IOP Realtime Co-Proc(ARTIC) Feature board	Test 9 ATR Window relocation Failed
6316	B1-G B1-A B1-CD/S B1-BD	80 15 3 1	92X3222 92X7359 xxxxxxx 92X7296	Main Storage Card Feature IOP Feature Card/s Feature board	Unlatch address lines 17-19. Test failed Reference Feature Isolation Procedure.
6320	B1-G B1-A B1-CD/S B1-BD	50 30 15 4	92X3222 92X7359 xxxxxxx 92X7296	Main Storage Card Feature IOP Feature Card/s Feature board	IOP Feature unknown NMI detected
6321	B1-A B1-G	99	92X7359 92X3222	Feature IOP Main Storage Card	IOP Feature Memory Parity Error
6322	B1-G	99	92X3222	Main Storage Card	IOP Feature Detected Shared Memory ECC Parity Error
6340					IOP Feature general loader error Replace DSKT 61 and 62 and Re-Customize system
6341					IOP Feature 80286 Exception Error Replace DSKT 61 and 62 and Re-Customize system
6342					IOP Feature detected Invalid BIOS request Replace DSKT 61 and 62 and Re-Customize system
6343	B1-G B1-CD/S A1G2 A1-BD B1-BD	60 20 15 2 1	92X3222 xxxxxxx 92X3293 69X7333 92X7296	Main Storage Card Feature Card/s CSP card A1 Board Feature board	IOP Feature detected Diagnostic test error
6350	B1-G A1G2 A1-BD B1-BD	80 16 2 1	92X3222 92X3293 69X7333 92X7296	Main Storage Card CSP card A1 Board Feature board	IL1 Will not reset

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
6351	B1-G	99	92X3222	Main Storage Card	Test 6 Memory arbitration 1 Failure background value invalid.
6352	B1-G	99	92X3222	Main Storage Card	Test 6 Memory arbitration 2 Failure IOP Feature Didn't write next byte
6353	B1-G	99	92X3222	Main Storage Card	Test 8 Invalid read from MS Written by IOP feature
6355	B1-CD/S B1-G B1-A A1-BD B1-BD	50 25 20 1 1	xxxxxxx 92X3222 92X7359 69X7333 92X7296	Feature Card/s Main Storage Card Feature IOP A1 Board Feature board	Intermittent errors or IOP feature is inactive and timed out or IOP Feature Software Error If offset PCIBERRNM in (MS Address 10021-22) PCIB is not zero call for software support. Run APAR to collect data else, power off system. RE-IPL, if error continues see MIM procedure 156 for feature isolation.
6360	Program				Diskette I/O Read or open failure on IOP files. Replace DSKT 61 and 62 Re-Customize.
6361	Program				Disk I/O Read or open failure on IOP files line not Replace DSKT 61 and 62 Re-customize.
6362	B1-G B1-CD/S B1-A B1-BD	60 20 15 1	92X3222 xxxxxxx 92X7359 92X7296	Main Storage Card Feature Card/s Feature IOP Feature board	IOP feature detected Load error Replace DSKT 61 and 62 and Re-customize system. If error continues refer- ence Feature Isolation Procedure.
6380	Program				Umdetermined Main Storage or 286/IOP Feat cd error.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
7151	Program				Work station error code program problem. SNA function not supported (work station display)
7154					Undefined remote error. (work station display) Run communications problem determination. Determine failing line from system message.
7156	Program				Work station error code program problem. SNA state error. (work station display)
7157	Program				Work station error code program problem. SNA RH usage error. (work station display)
7158	Program				Work station error code program problem. SNA path error. (work station display)
7163	Program				Work station error code program problem. Undefined data link protocol (DLP) detected error. (work station display)
7164	Program				Work station error code program problem. Request-on-line received. (work station display)
7165					DLP time-out condition. (work station display) Run communications problem determination. Determine failing line from system message.
7166					Severe line degradation. (work station display) Run communications problem determination. Determine failing line from system message.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
7167	Program				Work station error code program problem. Protocol violation. (work station display)
7168					Permanent DLP hardware error. (work station display) Run communications problem determination. Determine failing line from system message.
7169					SNA request not valid. (work station display) Run communications problem determination. Determine failing line from system message.
716A	Program				Work station error code program problem. DLP communication error. (work station display)
716b					DLP communication reset. (work station display) Run communications problem determination. Determine failing line from system message.
7251	Program				Work station error code program problem. SNA function not supported (work station printer)
7254					Undefined remote error. (work station printer) Run communications problem determination. Determine failing line from system message.
7255	Program				Work station error code program problem. Change direction sent to printer. (work station printer)
7256	Program				Work station error code program problem. SNA state error. (work station printer)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
7257	Program				Work station error code program problem. SNA RH usage error. (work station printer)
7258	Program				Work station error code program problem. SNA path error. (work station printer)
7263	Program				Work station error code program problem. Undefined data link protocol (DLP) detected error. (work station printer)
7264	Program				Work station error code program problem. Request-on-line received. (work station printer)
7265					DLP time-out condition. (work station printer) Run communications OLPD. Determine failing line from system message.
7266					Severe line degradation. (work station printer) Run communications OLPD Determine failing line from system message.
7267	Program				Work station error code program problem. Protocol violation. (work station printer)
7268					Permanent DLP hardware error. (work station printer) Run communications OLPD. Determine failing line from system message.
7269	Program				Work station error code program problem. SNA request not valid. (work station printer)
726A	Program				Work station error code program problem. DLP communication error. (work station printer)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
726b					DLP communication reset. (work station printer) Run communications OLPD. Determine failing line from system message.
8101					Premature end of the data stream detected. (work station display)
8102	Program				Work station error code program problem. Invalid row/column address (work station display)
8103	Program				Work station error code program problem. Fields not defined in ascending address order. (work station display)
8104	Program				Work station error code program problem. Either there is an escape character missing or there is an invalid command code after an escape character. (work station display)
8105	Program				Work station error code program problem. Invalid start field length (work station display)
8106	Program				Work station error code program problem. Invalid start field address. (work station display)
8107	Program				Work station error code program problem. A restore command has been sent to the wrong display or incomplete data has been sent with the restore command. (work station display)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
8108	Program				Work station error code program problem. An attempt has been made to define an input field that extends passed the end of the display screen. (work station display)
8109	Program				Work station error code program problem. Format table overflow. Too many input fields have been defined. (work station display)
8110	Program				Work station error code program problem. An attempt has been made to write data past the end of the display screen. (work station display)
8111	Program				Work station error code program problem. Start of header length does not equal 3. (work station display)
8112	Program				Work station error code program problem. Roll parameter error. Invalid data following a roll command has been detected. (work station display)
8113	Program				Work station error code program problem. Missing or invalid start field attribute or field format word. (work station display)
8114	Program				Work station error code program problem. Invalid load display station storage command. (work station display)
8115	Program				Work station error code program problem. Invalid clear unit alternate parameter. (work station display)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
8116	Program				Work station error code program problem. Invalid structured field length. (work station display)
8117	Program				Work station error code program problem. Invalid structured field class or type value. (work station display)
8118	Program				Work station error code program problem. Invalid structured field parameter value. (work station display)
8127	Program				Work station error code program problem. Invalid data stream command in WP mode. (work station display)
8128	Program				Work station error code program problem. Invalid data stream command in DP mode.
8129	Program				Work station error code program problem. Command not allowed to display with unlocked Keyboard.
8130	Program				Work station error code program problem. Command not valid for specified display (IGC (EPOCH), or data entry or Katakana Keyboard)
8131	Program				Work station error code program problem. Invalid field length. An invalid input field length has been detected on the display screen. (work station display)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
8132	Program				Work station error code program problem. Resequencing error. There is an invalid resequencing field control word in the format table. (work station display)
8134	Program				Work station error code program problem. Shift character omission or misplacement in an IGC open field. (work station display)
8142	Program				Work station error code program problem. Invalid data stream byte count of a request to configure a new work station. (work station display)
8143	Program				Work station error code program problem. Invalid work station unit address. (work station display)
8144	Program				Work station error code program problem. Unit address already configured. (work station display)
8145	Program				Work station error code program problem. Attempt to configure to many work stations. If Extended Input Fields are configured the maximum number of terminals that can be configured are 1/2 maximum. If normal is 16, with Ext Inpt Flds only 8 will be allowed. (work station display)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
8160	Program				Work station error code program problem. System detects a value greater than 4096 in the length field of a display station IOB. (work station display)
8161	Program				Work station error code program problem. IOB command modifier is invalid. (work station display)
8162	Program				Work station error code program problem. The work station controller has detected a value of zero (0) in the length field of a display station IOB. (work station display)
8163	Program				Work station error code program problem. Invalid unit address. (work station display)
8164	Program				Work station error code program problem. Byte count for read fields not equal to number of field positions. (work station display)
8166	Program				Work station error code program problem. Display station in error mode. (work station display)
8167	Program				Work station error code program problem. Display station not in session. (work station display)
8169	Program				Work station error code program problem. Not ready caused by operator error mode or system request mode. (work station display)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
8170	Program				Work station error code program problem. Read issued to unlocked keyboard. (work station display)
8220	Program				Work station error code program problem. Invalid byte count specified for Read Text Screen command.
8221	Program				Work station error code program problem. Invalid WSCF Command in WP mode.
8222	Program				Work station error code program problem. Invalid WSCF Command in DP mode.
8260	Program				Work station error code program problem. Value greater than 4096 in length field of printer IOB. (work station printer)
8261	Program				Work station error code program problem. IOB modifier is invalid. (work station printer)
8262	Program				Work station error code program problem. Invalid byte count in printer IOB. (work station printer)
8263	Program				Work station error code program problem. Invalid unit address in unit address field of printer IOB. (work station printer)
8265	Program				Work station error code program problem. Print buffer not available (work station printer)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
8266	Program				Work station error code program problem. Printer in error mode. (work station printer)
8267	Program				Work station error code program problem. Printer not in session. (work station printer)
8269	Program				Work station error code program problem. Cancel request. (work station printer)
8305	Program				Work station error code program problem. State error. Command not allowed in Operator Error mode or System Reset mode.
9901	Bse Pwr A1-BD Drive A Drive B Dskt Dr A1D2 B1-G A1E2 A1J2 A1H2 A1G2 A1F2 A1C2 A1E2 Powered Fan A1E2	20 10 10 10 10 10 5 4 3 3 3 3 3 3 3 1 1 1	1035350 69X7333 69X6909 92X7320 69X6909 92X7320 59X4098 92X3294 92X3222 92X3296 92X3291 92X3292 92X3293 92X3221 92X3224 92X3296 2453011 4236949 92X3295	Base Power Supply A1 Board Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB Diskette Drive Asm Data Storage Adapter Main Storage Card WS Controller feature MSP data flow card MSP control card CSP card WS Adptr/panel/PT Disk Adapter Card WS Controller feature 6ft line cord U.S. only Cooling fan WS Pass Through	There is an open circuit in the AC input to the power supply or a DC output over current has occurred. If after re-replacing base power Supply problem persists, see Power Procedure 420 in the MIM. See the parts catalogue section in the Mim for additional power cord numbers.
9902	Bse Pwr Powered	85 15	1035350 2453011	Base Power Supply 6ft line cord U.S. only	There is a short in the line cord or in the power supply line filter. See Power Procedures in MIM. See the parts catalog section in the MIM for additional power cord part numbers.
9903	Bse Pwr	90	1035350	Base Power Supply	There is a short in the power supply . See Power Procedures in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
990b	Bse Pwr Powered Fan Dskt Dr Drive A Drive B	53 27 10 5 1 1	1035350 2453011 4236949 59X4098 69X6909 92X7320 69X6909 92X7320	Base Power Supply 6ft line cord U.S. only Cooling fan Diskette Drive Asm Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB	Obvious Power problems such as Fans not operating. Noisy hardfile. If after replacing Base power supply problem persist, see Power Procedure 420 in the MIM.
990c	Bse Pwr Pwr SW Pwr Cbl	60 20 20	1035350 92X3310 92X3314	Base Power Supply Actuator on/off Actuator Cable Asm	System will not power down and the system is operational. See Power Procedures in MIM.
A000					Unexpected error; Re-customize and/or use a new set of diskettes. If problem persists, Reference Procedure 121 in MIM.
A001					Unexpected error; Re-customize and/or use a new set of diskettes. If problem persists, Reference Procedure 121 in MIM.
A1A8					No valid alternate table. See section on disk procedures in MIM.
A1A9	A1C2 A1D2 Drive A	50 30 10	92X3224 92X3294 69X6909 92X7320	Disk Adapter Card Data Storage Adapter Disk Drive A 65MB Disk Drive A 105MB	Permanent drive A error. See Procedure 121 in the MIM.
A1AA					No UDT found. reIPL with wraps. See procedure 121 in the MIM.
A1AB	A1C2 A1D2	60 30	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Invalid command. Reseat cable J26&27 and reIPL with wraps before replacing FRUs.
A1AC	J26&27		92X3300	Disk Cable Asm	Cable continuity error. Reseat cable J26&27 and reIPL with wraps.
A1AD	Drive A A1C2	70 30	69X6909 92X7320 92X3224	Disk Drive A 65MB Disk Drive A 105MB Disk Adapter Card	Drive error. ReIPL with wraps before replacing any FRUs.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
A1AE	A1C2 Drive A A1D2	50 40 10	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Data Storage Adapter	Media error. Reference Disk Procedures in MIM.
A1AF	A1C2 A1D2 Drive A or Drive B	40 40 10	92X3224 92X3294 69X6909 92X7320 69X6909 92X7320	Disk Adapter Card Data Storage Adapter Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB	Interface error. Reference Disk Procedures in MIM. Check for + 5v and + 12v on Disk Drive Power Cables.
A1B0					DCP IOB error See Procedure 121 in the MIM.
A1B2					Invalid alternate table was detected. See Procedure 121 in the MIM.
A1C1					Work station I/O data stream error. Ensure the console is powered on. ReIPL with a different diskette.
A1C2	A1F2 A1E2 J23	90 5 5	92X3221 92X3296 92X3303	WS Adptr/panel/PT WS Controller feature Cable to WS ports	Work station hardware Verify that microcode diskettes and SSP being being used are the same level.
A1C3					Work station functional microcode not found. Could be a failing diskette or misconfigured disk or diskette. If there have not been any changes made to your disk or diskette, you may have a hardware error. See Procedures 121 in the MIM.
A1E0					DCP Printer I/O error. This SRC is displayed as of the DCP WS I/O error screen.
AF90					-- DISK LOADER ENTRY Unexpected error. ReIPL with wraps. See Procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
AFA0					Disk Loader Entry SRC Unexpected error. ReIPL with wraps. See Procedure 121 in the MIM.
AFA1	A1C2 Drive A	85 15	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB	No valid alternate. Initialize Drive A before replacing any FRUs. See Procedure 121 in the MIM.
AFA2	A1C2 Drive A	50 50	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB	Timeout error. See Procedure 121 in the MIM.
AFA3	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Channel interface error. Check top card connector before replacing any FRUs. See Procedure 121 in the MIM.
AFA4	A1C2 A1D2	45 45	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	DPC parity error. See Procedure 121 in the MIM.
AFA5	A1C2 Drive A A1D2	60 20 10	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Data Storage Adapter	DMA parity error. Reseat cable J26&27 and top card connector and reIPL with wraps. See Procedure 121 in the MIM.
AFA6	A1C2 Drive A J26&27	45 40 15	92X3224 69X6909 92X7320 92X3300	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Cable Asm	Cable continuity error. Reseat cable J26&27 & re- IPL with wraps. See Procedure 121 in the MIM.
AFA7	A1C2 Drive A J26&27	65 30 2	92X3224 69X6909 92X7320 92X3300	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Cable Asm	Loader media error. Exchange Disk Adapter card first. Then go to procedure 121 in the MIM.
AFA8	Drive A A1C3	70 30	69X6909 92X7320	Disk Drive A 65MB Disk Drive A 105MB	Drive error. Reseat cable J26&27 & reIPL with wraps. See Procedure 121 in the MIM.
AFA9					-- DISK LOAD COMPLETE Code loaded was invalid. Reload microcode. See Procedure 121 in the MIM.
AFF2					Unexpected interrupt on Interrupt Level 2. Devices on this interrupt: CSP (Interval Timer)

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
AFF4					Unexpected interrupt on Interrupt Level 4 Attempt to restart the current operation. Devices on this interrupt: Work Station Adapter Data Storage Adapter
B500					Invalid IPL option. Check that diskette is correct or diskette may be bad.
B501					Invalid IPL option, Check that diskette is correct or diskette may be bad.
B504					Invalid IPL option, F0xx and F1xx not allowed with reload IPL.
C000					Default wrap supervisor halt code; ReIPL.
C001					Wrap module not found. Misconfigured or bad disk or diskette. Check UDT for correct configuration.
C002					System reference code module ID (WFE00) not found in wrap address table. Misconfigured or bad disk or diskette. See Procedure 121 in the MIM.
C003					Primary system reference code table entry missing. Misconfigured or bad disk or diskette. See Procedure 121 in the MIM.
C004					Secondary system reference code table entry missing. Misconfigured or bad disk or diskette. See Procedure 121 in the MIM.
C1F0	T card B1-A B1-BD	85 10 5	92X3360 92X7359 92X7296	Tape Adpt Cd Feature IOP Feature board	Adapter Error Run OLPD. * Reseat card and cable.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C1F5	T card B1-A B1-BD	85 10 5	92X3360 92X7359 92X7296	Tape Adpt Cd Feature IOP Feature board	Tape Adapter card bad or missing.
C1F7	Program				Undetermined return code from tape adapter during IPL wraps.
C201	B1-G	45	92X3222	Main Storage Card	Bad 2 KB main storage page.
C500	A1F2 Wrkstn WS cbl A1E2 A1E2	74 15 5 5 1	92X3221 ----- 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system WS Controller feature WS Pass Through	The work station adapter card failed to poll the system console. Verify that another workstation on port 0 is not at same address as console. Reference Local Workstation Procedures in the MIM.
C601	A1E2 A1F2 A1E2	95 4 1	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller was unable to perform an initial address load operation. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.
C602	A1E2 A1F2 A1E2	95 4 1	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller was unable to perform a sense data buffer operation. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.
C603	A1E2 A1F2 A1E2	95 4 1	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller was unable to perform a load cycle steal counter operation. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.
C604	A1E2 A1G2 A1F2 A1E2	90 5 4 1	92X3296 92X3293 92X3221 92X3295	WS Controller feature CSP card WS Adptr/panel/PT WS Pass Through	The work station controller failed the processor interrupt test. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C606	A1E2 A1F2 A1G2 A1E2	90 8 1 1	92X3296 92X3221 92X3293 92X3295	WS Controller feature WS Adptr/panel/PT CSP card WS Pass Through	The work station controller failed the program load test. Replace the FRUs first. If FRUs fail to fix the problem go to MIM 155 Channel isolation
C608	A1E2 A1F2 A1G2 A1E2	90 7 2 1	92X3296 92X3221 92X3293 92X3295	WS Controller feature WS Adptr/panel/PT CSP card WS Pass Through	The work station controller failed the interrupt structure test. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.
C609	A1E2 A1F2 A1G2 A1E2	90 7 2 1	92X3296 92X3221 92X3293 92X3295	WS Controller feature WS Adptr/panel/PT CSP card WS Pass Through	The work station controller failed the pacer/block length test. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.
C610	A1E2 A1F2 A1G2 A1E2	65 30 2 1	92X3296 92X3221 92X3293 92X3295	WS Controller feature WS Adptr/panel/PT CSP card WS Pass Through	The work station controller failed the branch instruction test. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.
C611	A1E2 A1F2 A1E2	94 5 1	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller failed the register instruction test. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.
C612	A1E2 A1F2 A1E2	94 5 1	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller failed the arithmetic instruction test. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.
C613	A1E2 A1F2 A1E2	94 5 1	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller failed the register to storage instruction test. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C614	A1E2 A1F2 A1E2	90 5 2	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller failed the channel processor check test. If FRUs fail to fix the problem, go to MIM 155 Channel isolation.
C615	A1E2 A1F2 A1E2	94 5 1	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller failed the new attachment controller micro instruction test. If FRUs fail to fix the problem, go to MIM 155 Channel Isolation
C616	A1E2 A1F2 A1E2	94 5 1	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller failed the base displacement instruction test. If FRUs fail to fix the problem, go to MIM 155 Channel Isolation.
C617	A1E2 A1F2 A1E2	94 5 1	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller failed its storage test. Replace the FRUs first. If FRUs fail to fix the problem, go to MIM 155 Channel Isolation.
C618	A1E2 A1F2 A1E2	94 5 1	92X3296 92X3221 92X3295	WS Controller feature WS Adptr/panel/PT WS Pass Through	The work station controller failed its storage test. If FRUs fail to fix the problem, go to MIM 155 Channel Isolation.
C8B9					Unexpected check code found in SRC field in Comm configuration file. ReIPL.
C8BA	SDLC cd B1-BD BSC1 cd	80 10 10	8286099 92X7296 8286098	SDLC card Feature board Prim BSC Card	IPL wraps failed. Replace FRU.
C8BB	BSC1 cd B1-BD SDLC cd	80 10 10	8286098 92X7296 8286099	Prim BSC Card Feature board SDLC card	IPL wraps failed. Replace FRU. Replace FRU.
C8BC	BSC2 cd B1-BD	80 20	8286098 92X7296	Secondary BSC Card Feature board	IPL wraps failed. Replace FRU.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C8BD	BSC1 cd SDLC cd ASY2 cd B1-BD	30 30 30 10	8286098 8286099 8286147 92X7296	Prim BSC Card SDLC card Secondary Async card Feature board	Comm BSC1/SDLC/ASY2 ca on B1-Board. Ipl wraps failed. Replace FRU.
C8BE	B1-BD SDLC cd BSC1 cd	50 25 25	92X7296 8286099 8286098	Feature board SDLC card Prim BSC Card	Before changing FRUs, reseal both SDLC and BSC1 cards on B1-Board and re-IPL. If the problem still exists, then replace FRUs accordingly or bad configuration.
C8C9	ASY1 cd B1-BD	90 10	8286147 92X7296	Primary Async Card Feature board	IPL wraps failed Replace FRU
C8CA	ASY2 cd B1-BD	90 10	8286147 92X7296	Secondary Async card Feature board	IPL wraps failed
C8CB	ARTIC RS-232C	75 25	60X8192 58X7285	Realtime Co-Proc(ARTIC) Line 3(Port A) elec Int.	Verify the RS-232C electrical interface board configuration has not changed since the last time the Auto-Configure program was run. If it has, rerun the Auto-Configure program, if it hasn't IPL wraps have failed. Replace FRUs accordingly.
C8CC	ARTIC RS-232C	75 25	60X8192 58X7285	Realtime Co-Proc(ARTIC) Line 4(Port B) elec Int.	Verify the RS-232C electrical interface board configuration has not changed since the last time the Auto-Configure program was run. If it has, rerun the Auto-Configure program, if it hasn't IPL wraps have failed. Replace FRUs accordingly.
C940					Program error during disk initialize. ReIPL and run disk initialize again.
C941					UDT error during disk initialize. ReIPL, run configure, and run disk initialization again.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C942					Disk initialize module could not be loaded. Make sure IPL diskette is properly loaded in drive. ReIPL and run disk initialize again.
C950					UDT error during disk initialize. ReIPL, and run disk initialization again.
C951	A1C2 Drive A J26&27 Pwr Sup A1D2 A1-BD	40 30 10 8 5 2	92X3224 69X6909 92X7320 92X3300 92X3294 69X7333	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Cable Asm Data Storage Adapter A1 Board	Permanent Drive A error. Ensure that cable J26&27 is correctly seated. Check for +5V and +12V on drive A power cbl. Check jumper for correct position on drive. See Disk Procedure in the MIM.
C952	A1C2 Drive B J26&27 Bsc Pwr A1D2 A1-BD	40 30 10 8 5 2	92X3224 69X6909 92X7320 92X3300 1035350 92X3294 69X7333	Disk Adapter Card Disk Drive B 65MB Disk Drive B 105MB Disk Cable Asm Base Power Supply Data Storage Adapter A1 Board	Permanent Drive B error. Ensure that cable J26&27 is correctly seated. Check for +5V and +12V on drive B power cbl. Check jumper for correct position on drive. See Disk Procedure in the MIM.
C953	A1C2 Drive A A1D2	45 45 5	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Data Storage Adapter	Permanent Drive A error. See procedure 121 in the MIM.
C954	Drive A A1C2	70 25	69X6909 92X7320 92X3224	Disk Drive A 65MB Disk Drive A 105MB Disk Adapter Card	No alternative sector is available on track for Drive A cylinder 0. See Procedure 121 in the MIM.
C955	Drive A A1C2	65 30	69X6909 92X7320 92X3224	Disk Drive A 65MB Disk Drive A 105MB Disk Adapter Card	Number of defects is over the limit for initializing Drive A. See Procedure 121 in the MIM.
C956	A1C2 Drive B A1D2	50 45 3	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive B 65MB Disk Drive B 105MB Data Storage Adapter	Permanent Drive B error. See Procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C957	Drive B A1C2	70 25	69X6909 92X7320 92X3224	Disk Drive B 65MB Disk Drive B 105MB Disk Adapter Card	No alternate sector is available on track for Drive B cylinder 0. See Procedure 121 in the MIM.
C958	Drive B A1C2	65 30	69X6909 92X7320 92X3224	Disk Drive B 65MB Disk Drive B 105MB Disk Adapter Card	Number of defects is over the limit for initializing Drive B. See Procedure 121 in the MIM.
C95A	Drive A Program	95	69X6909 92X7320	Disk Drive A 65MB Disk Drive A 105MB	Disk drive model or size is not recognized for Drive A. If program is prepared to recognize the installed drives, Drive A is failing. See Procedure 121 in the MIM.
C95B	Drive B Program	95	69X6909 92X7320	Disk Drive B 65MB Disk Drive B 105MB	Disk drive model or size is not recognized for Drive B. If program is prepared to recognize the installed drives, Drive B is failing. See Procedure 121 in the MIM.
C95C	Drive A	99	69X6909 92X7320	Disk Drive A 65MB Disk Drive A 105MB	Defect map from Drive A is damaged or missing. See Procedure 121 in the MIM.
C95D	Drive B	99	69X6909 92X7320	Disk Drive B 65MB Disk Drive B 105MB	Defect map from Drive B is damaged or missing. See Procedure 121 in the MIM.
C970	A1C2 A1D2 Drive A or Drive B	80 15 5	92X3224 92X3294 69X6909 92X7320 69X6909 92X7320	Disk Adapter Card Data Storage Adapter Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB	Adapter register writes and reads failed. See Procedure 121 in the MIM. Ensure that Cable J26 & 27 correctly seated. Check for +5v and +12v on Disk Drive power cables.
C971	A1C2 A1D2	85 15	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Interrupt test failed. See Procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C972	A1C2 Drive A or Drive B J26&27	60 30 5 5	92X3224 69X6909 92X7320 69X6909 92X7320 92X3300	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB Disk Cable Asm	IPL disk adapter card failed. Reseat cable J26&27 and reIPL with wraps before replacing A1C2. See Procedure 804 in the MIM.
C973	A1C2 Drive A or Drive B	45 40 10	92X3224 69X6909 92X7320 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB	Seek and scan test failed. See Procedure 121 in the MIM.
C974	A1C2 Drive A	75 25	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB	Format CE Cylinder failed. See Procedure 121 in the MIM.
C975	A1C2 Drive A A1D2	55 35 10	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Data Storage Adapter	Local write and read test failed. See Procedure 121 in the MIM.
C976	A1C2 Drive A A1D2	65 30 5	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Data Storage Adapter	Write and read one sector failed. See Procedure 121 in the MIM.
C977	Drive A A1C2	70 30	69X6909 92X7320 92X3224	Disk Drive A 65MB Disk Drive A 105MB Disk Adapter Card	Multi-sector write and read failed. See Procedure 121 in the MIM.
C978	A1C2	99	92X3224	Disk Adapter Card	Inverted ECC test failed. See Procedure 121 in the MIM.
C979	A1C2	99	92X3224	Disk Adapter Card	Check corrections test failed. See Procedure 121 in the MIM.
C980	A1C2 A1D2 Drive B	80 10 5	92X3224 92X3294 69X6909 92X7320	Disk Adapter Card Data Storage Adapter Disk Drive B 65MB Disk Drive B 105MB	Adapter register writes and reads failed. See Procedure 121 in the MIM.
C981	A1C2 A1D2	85 15	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Interrupt test failed. See Procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C982	A1C2 Drive B	60 40	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive B 65MB Disk Drive B 105MB	IPL disk adapter card failed. Reseat cable J26&27 & reIPL with wraps before replacing A1C2 See Procedure 121 in the MIM.
C983	A1C2 Drive B	50 50	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive B 65MB Disk Drive B 105MB	Seek and scan test failed. See procedure 121 in the MIM.
C984	A1C2 Drive B	75 25	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive B 65MB Disk Drive B 105MB	Format CE Cylinder failed. See Procedure 121 in the MIM.
C985	A1C2 Drive B A1D2	55 35 10	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive B 65MB Disk Drive B 105MB Data Storage Adapter	Local write and read test failed. See Procedure 121 in the MIM.
C986	A1C2 Drive B A2D2	65 30 5	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive B 65MB Disk Drive B 105MB	Write and read one sector failed. See Procedure 121 in the MIM.
C987	Drive B A1C2	70 30	69X6909 92X7320 92X3224	Disk Drive B 65MB Disk Drive B 105MB Disk Adapter Card	Multi-sector write and read failed. If drive has been initialized, replace A1C2 and reIPL with wraps. If still a problem initialize Drive B and rerun wraps before replacing Drive B. See Procedure 121 in the MIM.
C988	A1C2	99	92X3224	Disk Adapter Card	Inverted ECC test failed. See Procedure 121 in the MIM.
C989	A1C2	99	92X3224	Disk Adapter Card	Check corrections test failed. See Procedure 121 in the MIM.
C990	A1C2 A1D2 Drive A or Drive B	70 20 6 4	92X3224 92X3294 69X6909 92X7320 69X6909 92X7320	Disk Adapter Card Data Storage Adapter Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB	Disk adapter bad or not found. Replace adapter. If error continues, see Procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
C99A	Drive A	75	69X6909	Disk Drive A 65MB	Read of alternate sector table to adapter RAM failed.
	A1C2	15	92X7320	Disk Drive A 105MB	
	A1D2	5	92X3224	Disk Adapter Card	
C99B	Drive B	75	69X6909	Disk Drive B 65MB	Read of alternate sector table to adapter RAM failed.
	A1C2	15	92X7320	Disk Drive B 105MB	
	A1D2	5	92X3224	Disk Adapter Card	
CC35	A1F2	94	92X3221	WS Adptr/panel/PT	The work station adapter card failed the controller DBI/DBO test.
	A1E2	5	92X3296	WS Controller feature	
			92X3295	WS Pass Through	
CC36	A1F2	94	92X3221	WS Adptr/panel/PT	The work station adapter card failed its wrap test.
	A1E2	5	92X3296	WS Controller feature	
			92X3295	WS Pass Through	
CC37	A1F2	94	92X3221	WS Adptr/panel/PT	The work station adapter card failed to reset its Check latches.
	A1E2	5	92X3296	WS Controller feature	
	A1E2	1	92X3295	WS Pass Through	
CC38	A1F2	94	92X3221	WS Adptr/panel/PT	The work station adapter card failed its diag mode and prog level test.
	A1E2	5	92X3296	WS Controller feature	
	A1E2	1	92X3295	WS Pass Through	
CC39	A1F2	94	92X3221	WS Adptr/panel/PT	The work station adapter card failed its serdes.
	A1E2	5	92X3296	WS Controller feature	
			92X3295	WS Pass Through	
CC3A	A1F2	84	92X3221	WS Adptr/panel/PT	The work station adapter card failed its interrupt program/timer test.
	A1E2	10	92X3296	WS Controller feature	
	A1G2	5	92X3293	CSP card	
	A1E2	1	92X3295	WS Pass Through	
CC3C	A1F2	69	92X3221	WS Adptr/panel/PT	The work station adapter failed a cycle steal test.
	A1E2	25	92X3296	WS Controller feature	
	A1G2	5	92X3293	CSP card	
	A1E2	1	92X3295	WS Pass Through	
CC3E	A1F2	94	92X3221	WS Adptr/panel/PT	The work station adapter failed its hardware interrupt levels test.
	A1E2	5	92X3296	WS Controller feature	
			92X3295	WS Pass Through	
CC3F	A1F2	60	92X3221	WS Adptr/panel/PT	The work station adapter card failed its port 0 line driver test. Reference Work Station Procedures in the MIM.
	A1E2	10	92X3296	WS Controller feature	
	Wrkstn	10			
	Bse Pwr	10	1035350	Base Power Supply	
	WS cbl	4	-----	Twinax/IBM cbl system	
	A1E2	1	92X3295	WS Pass Through	

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
CC40	A1F2 Wrkstn WS cbl A1E2 J23	78 15 3 2 1	92X3221 ----- 92X3296 92X3295 92X3303	WS Adptr/panel/PT Twinax/IBM cbl system WS Controller feature WS Pass Through Cable to WS ports	The work station adapter card failed to poll the system console. Verify that another work station on port 0 is not at same address as console Reference Work Station Procedures in the MIM.
CC41	A1F2 Wrkstn WS cbl A1E2	58 30 9 2	92X3221 ----- 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system WS Controller feature WS Pass Through	The work station adapter failed its error checks test. This test needs a working console to run. Verify that two work stations are not at the same address on port 0. Reference Work Station Procedures in MIM.
CC42	A1F2 A1E2	79 20	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station adapter card failed the cycle steal register test.
CC43	A1F2 A1E2	79 20	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station adapter card failed its hardware interrupt test.
CC44	A1F2 A1E2 A1E2	79 20 1	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station adapter card failed to poll the system console.
CC46	A1F2 A1E2	94 5	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	WSC failed to initial Address Load.
CC4A	A1F2 A1E2 Wrkstn WS cbl A1E2	74 10 10 5 1	92X3221 92X3296 ----- 92X3295	WS Adptr/panel/PT WS Controller feature Twinax/IBM cbl system WS Pass Through	The work station adapter card failed its port 1-3 line drive test. Reference Workstation Procedures in the MIM.
CC51	A1F2 A1E2	95 4	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station adapter card failed it's RAM test
CC52	A1F2 A1E2	95 4	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station adapter card failed it's cycle steal block length test.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
CC60	A1F2 A1E2 Wrkstn WS cbl A1E2 J23	70 15 10 3 1 1	92X3221 92X3296 ----- 92X3295 92X3303	WS Adptr/panel/PT WS Controller feature Twinax/IBM cbl system WS Pass Through Cable to WS ports	Port 0 failed. The work station adapter card failed its hardware interrupt levels test. Reference Workstation Procedures in the MIM.
CC61	Display WS cbl A1F2 A1E2	55 30 9 5	----- 92X3221 92X3296 92X3295	Twinax/IBM cbl system WS Adptr/panel/PT WS Controller feature WS Pass Through	The work station failed its hardware interrupt level test.
CC62	A1F2 Wrkstn WS cbl A1E2	76 15 5 3	92X3221 ----- 92X3296 92X3295	WS Adptr/panel/PT Twinax/IBM cbl system WS Controller feature WS Pass Through	The work station adapter card failed diagnostic test.
CC63	Wrkstn WS cbl	75 25	-----	Twinax/IBM cbl system	Display stations and/or printers on a port are not responding. Reference Workstation Procedures in the MIM.
CC65	A1F2 A1E2 A1G2 A1E2	80 10 6 4	92X3221 92X3296 92X3293 92X3295	WS Adptr/panel/PT WS Controller feature CSP card WS Pass Through	The work station adapter card failed the controller DBI ABO Test.
CC66	A1F2 A1E2 A1G2 A1E2	80 10 4 1	92X3221 92X3295 92X3293 92X3296	WS Adptr/panel/PT WS Pass Through CSP card WS Controller feature	The work station adapter card failed its wrap test.
CC67	A1F2 A1E2 A1G2 A1E2	80 10 4 1	92X3221 92X3295 92X3293 92X3296	WS Adptr/panel/PT WS Pass Through CSP card WS Controller feature	The work station adapter card failed to reset its check latches.
CC68	A1F2 A1E2 A1G2 A1E2	80 10 6 1	92X3221 92X3295 92X3293 92X3296	WS Adptr/panel/PT WS Pass Through CSP card WS Controller feature	The work station adapter card failed its diag mode and prog level test.
CC69	A1F2 A1E2 A1G2 A1E2	80 10 6 1	92X3221 92X3295 92X3293 92X3296	WS Adptr/panel/PT WS Pass Through CSP card WS Controller feature	The work station adapter card failed its SERDES test.
CC6A	A1F2 A1E2 A1G2 A1E2	80 10 6 1	92X3221 92X3295 92X3293 92X3296	WS Adptr/panel/PT WS Pass Through CSP card WS Controller feature	The work station adapter card failed its interrupt program/timer test.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
CC6C	A1F2 A1E2 A1G2 A1E2	50 30 15 1	92X3221 92X3295 92X3293 92X3296	WS Adptr/panel/PT WS Pass Through CSP card WS Controller feature	The work station adapter failed a cycle steal test.
CC6E	A1F2 A1E2 A1G2 A1E2	50 30 15 1	92X3221 92X3296 92X3293 92X3295	WS Adptr/panel/PT WS Controller feature CSP card WS Pass Through	The work station adapter hardware interrupt levels test.
CC6F	A1F2 A1E2 Wrkstn WS cbl A1E2	60 20 10 5 1	92X3221 92X3296 ----- 92X3295	WS Adptr/panel/PT WS Controller feature Twinax/IBM cbl system WS Pass Through	The work station adapter card failed its port 0 line driver check. Reference Workstation Procedures in the MIM.
CC71	A1F2 A1E2 Wrkstn A1E2	50 35 10 1	92X3221 92X3295 92X3296	WS Adptr/panel/PT WS Pass Through WS Controller feature	The work station adapter failed its error checks test. This test needs a working console to run. Verify that two work stations are not at the same address on port 0. Reference Workstation Procedures in the MIM.
CC72	A1F2 A1E2 A1G2 A1E2	50 25 20 1	92X3221 92X3295 92X3293 92X3296	WS Adptr/panel/PT WS Pass Through CSP card WS Controller feature	The work station adapter card failed the cycle steal register test.
CC7A	A1F2 A1E2 A1E2 Wrkstn WS cbl	60 10 10 15 5	92X3221 92X3295 92X3296 -----	WS Adptr/panel/PT WS Pass Through WS Controller feature Twinax/IBM cbl system	The work station adapter card failed its port 1-3 line drive test.
CC81	A1F2 A1E2 Wrkstn WS cbl	70 20 5 1	92X3221 92X3295 92X3296 -----	WS Adptr/panel/PT WS Pass Through WS Controller feature Twinax/IBM cbl system	The work station adapter card failed its RAM test.
CC82	A1F2 A1E2 Wrkstn WS cbl A1E2	60 20 10 5 1	92X3221 92X3295 ----- 92X3296	WS Adptr/panel/PT WS Pass Through Twinax/IBM cbl system WS Controller feature	The work station adapter card failed its cycle steal block length test.
Cd10	A1D2 A1G2	90 10	92X3294 92X3293	Data Storage Adapter CSP card	Buffered adapter wraps failed.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
Cd30	A1D2 Dskt Dr A1G2 J25	93 4 2 1	92X3294 59X4098 92X3293 92X3301	Data Storage Adapter Diskette Drive Asm CSP card Diskette Cable Asm	Diskette DLC wraps failed. See Diskette Drive Procedures in the MIM.
CF01					Initialization wrap error, reIPL DCP with wraps.
CF61	A1F2 A1E2	60 30	92X3221 92X3296 92X3295	WS Adptr/panel/PT WS Controller feature WS Pass Through	Work station error, reIPL DCP with wraps.
CF63	B1-A B1-G B1-CD/S	50 30 15	92X7359 92X3222 xxxxxxx	Feature IOP Main Storage Card Feature Card/s	IOP Feature / Error Reference Mim Procedure 156.
CF65	A1D2 A1E2	90 5	92X3294 92X3296	Data Storage Adapter WS Controller feature	Disk/diskette/DSA error, reIPL DCP with wraps.
CF75	LAN cd B1-BD	98 1	83X9147 92X7296	Token Ring Adapter Card Feature board	LAN IPL wraps failed. Run OLPD.
CF83	LAN cd B1-BD	98 1	83X9147 92X7296	Token Ring Adapter Card Feature board	LAN IPL wraps failed. Run OLPD.
CFA7	A1C2 Drive A or Drive B A1D2	45 40 10	92X3224 69X6909 92X7320 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Drive B 65MB Disk Drive B 105MB Data Storage Adapter	Disk error, reIPL DCP with wraps. See Procedure 121 in the MIM.
CFB2	T card B1-BD	85 10	92X3360 92X7296	Tape Adpt Cd Feature board	Tape IPL wraps failed. Run OLPD.
CFC2	A1F2	93	92X3221	WS Adptr/panel/PT	Work station error, reIPL DCP with wraps.
CFd2	A1D2 Dskt Dr A1G2 J25	93 4 2 1	92X3294 59X4098 92X3293 92X3301	Data Storage Adapter Diskette Drive Asm CSP card Diskette Cable Asm	Diskette DLC wraps failed, reIPL DCP with wraps. See diskette drive procedures in the MIM. Remove write protect tab when using diag. diskettes.
D074	B1-G A1J2 A1H2 A1G2	70 25 3 1	92X3222 92X3291 92X3292 92X3293	Main Storage Card MSP data flow card MSP control card CSP card	Auto config failed. Memory card size cannot be determined.
DAXx					CSIPL 3rd load. This SRC is used only in step mode. When stop on errors is enable, the xx indicates the TU being executed.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
DC00	A1J2 A1H2 A1G2 B1-G A1-BD	40 40 16 2 2	92X3291 92X3292 92X3293 92X3222 69X7333	MSP data flow card MSP control card CSP card Main Storage Card A1 Board	CSIPL 3rd load failed in one of the register tests on the MSP data flow or Control card.
DC90	B1-G A1J2 A1H2 A1G2 A1-BD Featpwr	50 40 5 3 1 1	92X3222 92X3291 92X3292 92X3293 69X7333 ----- 1035526 1035395	Main Storage Card MSP data flow card MSP control card CSP card A1 Board Feature Power Supply Europe/Mid-East/Africa All Others	CSIPL 3rd load failed the CSP timeout on MS Write/read test. This is the first test for access of Main storage.
DC91	B1-G A1J2 A1H2 A1G2 Featpwr A1-BD	40 40 15 2 1 1	92X3222 92X3291 92X3292 92X3293 ----- 1035526 1035395 69X7333	Main Storage Card MSP data flow card MSP control card CSP card Feature Power Supply Europe/Mid-East/Africa All Others A1 Board	CSIPL 3rd load failed in the main store Auto configure test.
DC92	B1-G A1J2 A1H2 A1G2 Featpwr A1-BD	50 40 5 3 1 1	92X3222 92X3291 92X3292 92X3293 ----- 1035526 1035395 69X7333	Main Storage Card MSP data flow card MSP control card CSP card Feature Power Supply Europe/Mid-East/Africa All Others A1 Board	CSIPL 3rd load failed in the various Main Store Tests.
DC94	B1-G A1J2 A1H2 Featpwr A1-BD	50 25 10 10 1	92X3222 92X3291 92X3292 ----- 1035526 1035395 69X7333	Main Storage Card MSP data flow card MSP control card Feature Power Supply Europe/Mid-East/Africa All Others A1 Board	CSIPL 3rd load failed its comparison of UDT Main Store size and detected Main Store size. Check for correct memory size and then reconfigure the system before replacing any hardware.
DD00	B1-G A1J2 A1H2 A1-BD	70 20 5 5	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	Main Store card failed its ECC test.
DD01	B1-G A1J2 A1H2 A1-BD	94 2 2 2	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	CSIPL 3rd load failed its Main Store Error Analysis Test.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
DD02	B1-G A1J2 A1H2 A1-BD	94 2 2 2	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	CSIPL 3rd load failed its Main Store Addressing Test.
DD03	B1-G A1J2 A1H2 A1-BD	94 2 2 2	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	CSIPL 3rd load failed its Main Store Address + 1 Test.
DD04	B1-G A1J2 A1H2 A1-BD	94 2 2 2	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	CSIPL 3rd load failed its Main Store Address -1 Test.
DD05	B1-G A1J2 A1H2 A1-BD	94 2 2 2	92X3222 92X3291 92X3292 69X7333	Main Storage Card MSP data flow card MSP control card A1 Board	CSIPL 3rd load failed its Main Store Refresh Test.
DD06	B1-G A1J2 A1H2 A1G2 A1-BD	50 40 6 3 1	92X3222 92X3291 92X3292 92X3293 69X7333	Main Storage Card MSP data flow card MSP control card CSP card A1 Board	CSIPL 3rd load failed the Main Store Address + 2K Test.
DD07	B1-G A1J2 A1H2 A1G2 A1-BD	50 40 6 3 1	92X3222 92X3291 92X3292 92X3293 69X7333	Main Storage Card MSP data flow card MSP control card CSP card A1 Board	CSIPL 3rd load failed the Main Store Address -2K Test.
DD10	A1J2 A1H2	50 49	92X3291 92X3292	MSP data flow card MSP control card	CSIPL 3rd load. If replacing FRU does not correct the problem, check to see that the UDT is correct.
DD50	A1J2 A1H2 B1-G A1G2 A1-BD	30 30 30 8 2	92X3291 92X3292 92X3222 92X3293 69X7333	MSP data flow card MSP control card Main Storage Card CSP card A1 Board	CSIPL 3rd load failed the two byte store Main, load Main, and Base displaced CSP Instruction test.
DD51	A1J2 A1H2 A1G2 B1-G A1-BD	30 30 30 8 2	92X3291 92X3292 92X3293 92X3222 69X7333	MSP data flow card MSP control card CSP card Main Storage Card A1 Board	CSIPL 3rd load failed the Reset Interrupt. Level 5 Test.
DD52	A1J2 A1H2 B1-G A1G2 A1-BD	30 30 30 8 2	92X3291 92X3292 92X3222 92X3293 69X7333	MSP data flow card MSP control card Main Storage Card CSP card A1 Board	CSIPL 3rd load failed one of the MSP Instruction Test.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
DD53	A1J2 A1H2 B1-G A1G2 A1-BD	30 30 30 8 2	92X3291 92X3292 92X3222 92X3293 69X7333	MSP data flow card MSP control card Main Storage Card CSP card A1 Board	CSIPL 3rd load failed the MSP running with CSP Interference Test.
DD54	A1J2 A1H2 B1-G A1G2 A1-BD	30 30 30 8 2	92X3291 92X3292 92X3222 92X3293 69X7333	MSP data flow card MSP control card Main Storage Card CSP card A1 Board	CSIPL 3rd load failed the MSP Instruction Stop Test.
DD55	A1J2 A1H2 B1-G A1G2 A1-BD	30 30 30 8 2	92X3291 92X3292 92X3222 92X3293 69X7333	MSP data flow card MSP control card Main Storage Card CSP card A1 Board	CSIPL 3rd load failed the MSP Instruction Mix for Performance Test.
DD56	A1J2 A1H2 B1-G A1G2 A1-BD	30 30 30 8 2	92X3291 92X3292 92X3222 92X3293 69X7333	MSP data flow card MSP control card Main Storage Card CSP card A1 Board	CSIPL 3rd load failed one of its checks tests.
DD57	A1J2 A1H2 B1-G A1G2 A1-BD	30 30 30 8 2	92X3291 92X3292 92X3222 92X3293 69X7333	MSP data flow card MSP control card Main Storage Card CSP card A1 Board	CSIPL 3rd load failed the Main Store Error Analysis Test.
DD60	B1-G A1G2 A1J2 A1H2	30 30 30 8	92X3222 92X3293 92X3291 92X3292	Main Storage Card CSP card MSP data flow card MSP control card	CSIPL 3rd load failed the ATIOP Port Wrap of the Shared Storage Card.
DD70	A1F2 A1H2 A1J2	33 33 33	92X3221 92X3292 92X3291	WS Adptr/panel/PT MSP control card MSP data flow card	CSIPL 3rd load.
DExx					CSIPL 3rd load. Test unit xx is not in the load module.
DFA0					Disk Loader Entry SRC Unexpected error. ReIPL. with wraps. If no errors, reload microcode. See Procedure 121 in the MIM.
DFA1	A1C2 Drive A	85 15	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB	No valid alternate table. See Procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
DFA2	A1C2 Drive A	50 50	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB	Timeout error. See Procedure 121 in the MIM.
DFA3	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Channel interface error. Check top card connector before replacing any FRUs. See Procedure 121 in the MIM.
DFA4	A1C2 A1D2	45 45	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	DPC parity error. Reseat cable J26&27 and top card See Procedure 121 in the MIM.
DFA5	A1C2 Drive A A1D2	60 20 10	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Data Storage Adapter	DMA parity error. Reseat cable J26&27 and top card connector and reIPL with wraps. See Procedure 121 in the MIM.
DFA6	A1C2 Drive A J26&27	45 40 15	92X3224 69X6909 92X7320 92X3300	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Cable Asm	Cable continuity error. Reseat cable J26&27 and reIPL with wraps. See Procedure 121 in the MIM.
DFA7	A1C2 Drive A J26&27	65 30 2	92X3224 69X6909 92X7320 92X3300	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Cable Asm	Loader media error. Exchange Disk Adapter card first. See procedure 121 in the MIM. Exchange Drive A only if problem continues.
DFA8	Drive A A1C2	70 30	69X6909 92X7320 92X3224	Disk Drive A 65MB Disk Drive A 105MB Disk Adapter Card	Drive error. Reseat cable J26&27 and reIPL with wraps. See Procedure 121 in the MIM.
DFA9					-- DISK LOAD COMPLETE Code loaded was invalid. Reload microcode. See Procedure 121 in the MIM.
DFFA					CSIPL 3rd load. MSP cannot be initialized with input option FF00.
DFFB					CSIPL 3rd load. Configure error class.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
DFFC	A1D2 A1C2	50 45	92X3294 92X3224	Data Storage Adapter Disk Adapter Card	CSIPL 3rd load. This code is generated when an error that can not be identified occurs while loading DCP from disk or diskette.
DFFD					CSIPL 3rd load. MSP TU CS length too large.
DFFE					CSIPL 3rd load. Not a valid MSP MDI rule found.
DFFF					CSIPL 3rd load. Unknown error condition while running MSP IPL diagnostics.
E000	A1F2 A1G2 Bse Pwr Featpwr	85 5 5 5	92X3221 92X3293 1035350 ----- 1035526 1035395	WS Adptr/panel/PT CSP card Base Power Supply Feature Power Supply Europe/Mid-East/Africa All Others	This condition indicates that the Panel card failed power on diagnostics. Go to Control Panel procedures in MIM.
E002	A1G2 A1F2	85 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	Bad parity was detected on data read from the CSP Replace specified FRU's first. If that fails to fix the problem go to Procedure 155 in the MIM.
E003	A1F2 A1G2	90 10	92X3221 92X3293	WS Adptr/panel/PT CSP card	Bad parity was detected on data read to CSP.
E005	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP stopped, for no apparent reason (that is WR2A did not include a valid SPC instruction and the CSP is not processor checked.
E011	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP active during PCB sense RCB.
E012	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP active during PCB sense LSR.
E013	A1G2 A1F2 A1E2	80 10 10	92X3293 92X3221 92X3296	CSP card WS Adptr/panel/PT WS Controller feature	CSP remained active longer than 510 millisecond during a Disable Cycle Steals PCB command.
E016	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP active during "Sense Channel Error Byte" command.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E017	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP active during "Sense Channel Register" command.
E018	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP active during PCB "Set Matching Check" command.
E019	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP active during PCB "Load SDR" command.
E01A	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP active during PCB "Load SAR" command.
E01C	A1G2 A1F2 Bse Pwr Pnl Cbl	80 10 5 5	92X3293 92X3221 1035350 92X3302	CSP card WS Adptr/panel/PT Base Power Supply Op panel cable	CSP active during PCB "Load MOR" command.
E01E	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP active during PCB "Execute MOR" command.
E01F	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP active during PCB "Sense SDR" command.
E021	A1F2 A1G2	90 10	92X3221 92X3293	WS Adptr/panel/PT CSP card	Self-test failed ROS 2 (CSP microcode checksum test).
E022	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP PEB not reset after PCB reset, sense of PEB detected bad parity, or CSP went active during strobe of PCB sense.
E023	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP CEB not reset after PCB reset or sense of PEB detected bad parity.
E024	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	Channel register not reset by PCB reset command.
E025	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP main level MAR not zero after PCB reset.
E026	A1F2 A1G2	90 10	92X3221 92X3293	WS Adptr/panel/PT CSP card	Self-test failed, unable to reset check pulse latch on Panel processor card.
E027	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	Self-test failed, one of the following PCB commands returned bad parity; sense PEB, sense CR, sense LSR.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E028	A1F2 A1G2	90 10	92X3221 92X3293	WS Adptr/panel/PT CSP card	Self-test failed, service interface data bus wrap test (either the service adapter logic is bad or a CSP bus bit is stuck active).
E029	A1G2 A1F2 A1C2 A1E2 A1D2 A1E2 B1-G	80 10 2 2 2 2 2	92X3293 92X3221 92X3224 92X3295 92X3294 92X3296 92X3222	CSP card WS Adptr/panel/PT Disk Adapter Card WS Pass Through Data Storage Adapter WS Controller feature Main Storage Card	Go to channel FRU isolation Procedure 155. Self-test failed, reset CSP status check (one of the following conditions occurred after PCB reset Processor Check. OLB not on main level, Channel Register had bad parity, or Channel Register had wrong data for reset state). Note Work stations may have either an outboard controller (work station Feature or work station pass through).
E02A	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	Self-test failed during CSP SDR wrap test (an error was detected during load/sense of CSP SDR or data mismatch occurred).
E02C	A1G2 A1F2 Bse Pwr Pnl Cbl	80 10 5 5	92X3293 92X3221 1035350 92X3302	CSP card WS Adptr/panel/PT Base Power Supply Op panel cable	Self-test failed during CSP storage test (an error was detected during load/sense of storage or data mismatch occurred).
E02E	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	Self-test failed during CSP run test (CSP inactive after PCB start, or processor check detected)
E02F	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	Self-test failed during CSP stop test (CSP active after PCB Start, or processor check detected).
E030	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	Self-test failed during CSP processor check test (CSP active, not on MC level or processor check bit not set following a forced processor check).

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E031	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	CSP is at an EC level which is not compatible with Panel processor microcode.
E032	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	Self-test failed CSP reset test while PCB reset command active (CSP active processor check, or OLB not on main level during reset command)
E033	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	Self-test failed CSP active check after PCB reset command was removed (CSP active following a PCB reset command).
E034	A1G2 A1F2	90 10	92X3293 92X3221	CSP card WS Adptr/panel/PT	Self-test failed in MC MAB wrap test (an error was detected during load/sense of MC MAB or a data mismatch occurred).
E050	Panel Bse Pwr	95 5	92X3214 1035350	Control panel Base Power Supply	A Panel function couldn't be selected or the selected function could not be started (function display did not flash) when the Start Function was pressed. Go to Control Panel Procedure 505 in MIM.
E051	Panel A1F2	80 20	92X3214 92X3221	Control panel WS Adptr/panel/PT	Lamp Test failed. Go to Control Panel Procedures in MIM.
E052	Panel A1F2	80 20	92X3214 92X3221	Control panel WS Adptr/panel/PT	The system functions normally with the keylock switch in the normal position, however, either a red light is on on the control Panel or when the keylock switch is in the service position, the control Panel does not function properly. Go to Control Panel Procedures in MIM.
E080	A1G2	99	92X3293	CSP card	Unconditional branch failed.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E081	A1G2	99	92X3293	CSP card	Conditional branch failed.
E082	A1G2 A1E2	90 9	92X3293 92X3296	CSP card WS Controller feature	Branch and link failed.
E083	A1G2	99	92X3293	CSP card	Test mask instruction failed.
E084	A1G2	99	92X3293	CSP card	Hi/Lo work register selection failed.
E085	A1G2	99	92X3293	CSP card	CI instruction failed.
E086	A1G2	99	92X3293	CSP card	SI instruction failed.
E087	A1G2	99	92X3293	CSP card	One byte logical instruction failed.
E088	A1G2	99	92X3293	CSP card	One byte arithmetic instruction failed.
E089	A1G2	99	92X3293	CSP card	Two byte logical instruction failed.
E08A	A1G2	99	92X3293	CSP card	Two byte arithmetic instruction failed.
E08C	A1G2	99	92X3293	CSP card	Hex branch failed.
E08E	A1G2	99	92X3293	CSP card	Hex move failed.
E08F	A1G2	99	92X3293	CSP card	Initialization of low 32k of storage failed. Initialize CSP/SS control store.
E090	A1G2	99	92X3293	CSP card	Storage test of high 32k of storage failed. Storage and ECC check bit read/write.
E091	A1G2	99	92X3293	CSP card	Write of low 32k of storage to high 32k of storage of storage failed. Storage and ECC check bit read/write.
E092	A1G2	99	92X3293	CSP card	Storage test of low 32k of storage failed. Storage and ECC check bit read/write.
E093	A1G2	99	92X3293	CSP card	Write of high 32k of storage to low 32k of storage failed. Storage and ECC check bit read/write.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E094	A1G2	99	92X3293	CSP card	Base plug displacement instruction failed or bar bit incorrect.
E095	A1G2	99	92X3293	CSP card	Read or write of word to or from storage failed.
E096	A1G2	99	92X3293	CSP card	Read or write of byte to or from storage, or bar bit incorrect.
E097	A1G2	99	92X3293	CSP card	Load from control store direct area failed.
E098	A1G2	99	92X3293	CSP card	Load or sense of channel register failed.
E099	A1G2 A1D2 A1F2 A1E2 B1-G A1-BD A1E2	40 20 10 10 10 5 5	92X3293 92X3294 92X3221 92X3296 92X3222 69X7333 92X3295	CSP card Data Storage Adapter WS Adptr/panel/PT WS Controller feature Main Storage Card A1 Board WS Pass Through	DBI or DBO bits incorrect value. See channel isolation procedure 155 in MIM.
E09A	A1G2 A1D2 A1F2 A1E2 B1-G A1-BD A1E2	40 20 10 10 10 5 5	92X3293 92X3294 92X3221 92X3296 92X3222 69X7333 92X3295	CSP card Data Storage Adapter WS Adptr/panel/PT WS Controller feature Main Storage Card A1 Board WS Pass Through	TBI or ARS bits incorrect value. See channel isolation procedure 155 in MIM.
E09C	A1G2	99	92X3293	CSP card	Software set machine check interrupt failed.
E09E	A1G2	99	92X3293	CSP card	Disable checks failed.
E09F	A1G2 A1D2 A1F2 B1-G A1E2 A1-BD A1E2	40 20 15 10 5 5 5	92X3293 92X3294 92X3221 92X3222 92X3296 69X7333 92X3295	CSP card Data Storage Adapter WS Adptr/panel/PT Main Storage Card WS Controller feature A1 Board WS Pass Through	Force MC interrupt via invalid dev addr failed or enable checks failed. See channel isolation procedure 155 in the MIM.
E0A0	A1G2	99	92X3293	CSP card	Force MC interrupt via LSR parity check failed.
E0A1	A1G2	99	92X3293	CSP card	Force MC interrupt via storage parity check failed.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E0A2	A1G2 A1D2 A1F2 A1E2 B1-G A1-BD A1E2	35 20 10 10 10 10 5	92X3293 92X3294 92X3221 92X3296 92X3222 69X7333 92X3295	CSP card Data Storage Adapter WS Adptr/panel/PT WS Controller feature Main Storage Card A1 Board WS Pass Through	Extraneous interrupt pending. See channel isolation procedure 155 in MIM.
E0A3	A1G2	99	92X3293	CSP card	Interrupt level 5 structure test failed.
E0A4	A1G2	99	92X3293	CSP card	Disable interrupts failed.
E0A5	A1G2 A1F2	94 5	92X3293 92X3221	CSP card WS Adptr/panel/PT	One of interrupt level 1 through 4 failed.
E0A6	A1G2	99	92X3293	CSP card	Load/sense of run control byte failed.
E0A7	A1G2	99	92X3293	CSP card	Load/sense of LSR failed.
E0A8	A1G2	99	92X3293	CSP card	CSP/SS test complete, channel problem.
E3A0					Disk Loader Entry SRC. Unexpected error. ReIPL with wraps. If no errors, reload micro-code. See Procedure 121 in the MIM.
E3A1	A1C2 Drive A	85 15	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB	No valid alternate table. See procedure 121 in the MIM.
E3A2	A1C2 Drive A	50 50	92X3224 69X6909 92X7320	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB	Timeout error. See Procedure 121 in the MIM.
E3A3	A1C2 A1D2	60 35	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	Channel interface error. Check top card connector before replacing any FRUs. See Procedure 121 in the MIM.
E3A4	A1C2 A1D2	45 45	92X3224 92X3294	Disk Adapter Card Data Storage Adapter	DCP parity error. See Procedure 121 in the MIM.
E3A5	A1C2 Drive A A1D2	60 20 10	92X3224 69X6909 92X7320 92X3294	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Data Storage Adapter	DMA parity error. Reseat cable J26&27 & top card connector and reIPL with wraps. See Procedure 121 in the MIM.

SRC	FRU	%	P/N	FRU DESCRIPTION	SERVICE COMMENTS
E3A6	A1C2 Drive A J26&27	45 40 15	92X3224 69X6909 92X7320 92X3300	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Cable Asm	Cable continuity error. Reseat cable J26&27 and reIPL with wraps. See Procedure 121 in the MIM.
E3A7	A1C2 Drive A J26&27	65 30 2	92X3224 69X6909 92X7320 92X3300	Disk Adapter Card Disk Drive A 65MB Disk Drive A 105MB Disk Cable Asm	Loader media error. Exchange Disk Adapter Card first. If Problem continues see Procedure 121 in the MIM.
E3A8	Drive A A1C2	70 30	69X6909 92X7320 92X3224	Disk Drive A 65MB Disk Drive A 105MB Disk Adapter Card	Drive error. Reseat cable J26&27 and reIPL with wraps. See Procedure 121 in the MIM.
E3A9					-- DISK LOAD COMPLETE Code loaded was invalid. Reload microcode. See Procedure 121 in the MIM.
F000					The diskette inserted is not a CS IPL diskette.
F090	A1D2 Diskett	98 2	92X3294 -----	Data Storage Adapter User diskette	This code indicates that an error occurred while running the diskette bootstrap loader.
FFFF	A1G2 A1F2	45 45	92X3293 92X3221	CSP card WS Adptr/panel/PT	Unknown system Reference code. Replace specified FRU's first. If that fails to fix the problem go to Procedure 155 in the MIM.

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