B1000 SYSTEM SOFTWARE RELEASE MARK 12.0

DOCUMENT/HALTS

B1000 SYSTEMS SOFTWARE HALT DEFINES

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* TITLE:     B1000 SYSTEM SOFTWARE RELEASE MARK 12.0 (DOCUMENT)       *
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THIS DOCUMENT CONTAINS THE DEFINITIONS OF THE B 1000 SYSTEM
SOFTWARE HALTS.

B 1000 SYSTEMS SOFTWARE HALTS

WHEN A SOFTWARE-CONTROLLED HALT OCCURS ON A B 1000 SYSTEM,
VARIOUS REGISTERS ARE USED TO DISPLAY INFORMATION ABOUT THE HALT.
THE MOST IMPORTANT OF THESE IS THE L REGISTER, WHICH PROVIDES THE
PRIMARY HALT DEFINITION.   SOME HALTS DISPLAY FURTHER DESCRIPTIVE
INFORMATION IN OTHER REGISTERS (USUALLY X, Y, AND T).

IF THE ERROR LIGHT IS ON WHEN THE SYSTEM HALTS, THEN THE PERM OR
PERP REGISTERS CONTAIN INFORMATION ON THE CAUSE OF THE HALT.   IF
THE PROCESSOR HALTS THE SYSTEM, THE ERROR LIGHT IS SET ON, AND
THE L REGISTER CONTAINS WHATEVER WAS IN THE L REGISTER WHEN THE
PROCESSOR DETECTED ERROR OCCURED.

THE PERP REGISTER INDICATES AN ERROR IN THE PROCESSOR, AS
FOLLOWS:

         PERP(0)   CACHE DOUBLE HIT.
         PERP(1)   CACHE KEY PARITY ERROR.
         PERP(2)   M REGISTER PARITY ERROR, DURING FETCH OF A MICRO.
         PERP(3)   CASSETTE READ ERROR.

THE PERM REGISTER INDICATES AN ERROR IN MEMORY, AS FOLLOWS:

         PERM(0)   S MEMORY MICRO-INSTRUCTION TIMEOUT.
         PERM(1)   READ OR WRITE OUT OF BOUNDS OF THE MEMORY.
         PERM(2)   THERE IS A CHANGE IN THE ERROR LOG REGISTER.
         PERM(3)   UNCORRECTABLE CPU MEMORY ACCESS ERROR.

ON A SOFTWARE-CONTROLLED HALT, THE L REGISTER IS FUNCTIONALL
DIVIDED INTO TWO PORTIONS.

    (1)   THE LEFT-MOST 16 BITS (BITS 0-15) DESCRIBE THE SPECIFIC
          OR ROUTINE THAT HALTED, AS FOLLOWS:

         @0000@   SDL2 AND SDL INTERPRETER
                   STATE LIGHT ON -- MCP
                   STATE LIGHT OFF -- NORMAL-STATE SDL PROGRAM
         @0200@   MICRO MCP
         @0D00@   GISMO
         @000F@   CLEAR/START

(2) THE RIGHTMOST 8 BITS (BITS 16-23) GIVE THE HALT IDENTIFICATION.
     THIS PORTION OF THE HALT CODE IS DEPENDENT UPON THE SPECIFIC
     ROUTINE THAT HALTED (GIVEN IN BITS 0-15).

SDL2 AND SDL INTERPRETER HALTS (L=@0000XX@)

@01@	EVALUATION/PROGRAM POINTER STACK OVERFLOW.
@02@	CONTROL STACK OVERFLOW.
@03@	NAME/VALUE STACK OVERFLOW.
@04@	REMAPPED AREA HAS INSUFFICIENT LENGTH.
@05@	INVALID PARAMETER PASSED TO A PROCEDURE.
@06@	INVALID SUBSTRING (SUBBIT OR SUBSTR).
@07@	INVALID SUBSCRIPT.
@08@	INVALID VALUE RETURNED FROM A TYPED PROCEDURE.
@09@	INVALID CASE.
@0A@	DIVIDE BY ZERO.
@0B@	INVALID INDEX.
@0C@	READ OUT OF BOUNDS OR A MEMORY PARITY ERROR.
@0D@	INVALID OPERATOR.
@0E@	EVALUATION/DATA STACK OVERFLOW.
@0F@	CONVERT ERROR.
@10@	CONSOLE HALT (INTERRUPT SWITCH).
@11@	HALT OPERATOR. THE T REGISTER CONTAINS A FURTHER DEFINITION OF THE HALT. COMPLETE INFORMATION ON MCP HALTS IS GIVEN BELOW.
@12@	WRITE OUT-OF-BOUNDS.
@13@	EXPONENT OVERFLOW.
@14@	EXPONENT UNDERFLOW.
@15@	EXPRESSION OUT OF RANGE.
@16@	SUPERFLOUS EXIT.
@17@	OUT OF MEMORY SPACE.
@18@	INVALID LINK.
@19@	PROGRAM POINTER STACK OVERFLOW.
@1A@	INTEGER OVERFLOW.
@1B@	MESSAGE TRANSFER DATA NOT PRESENT.
@1C@	MESSAGE TRANSFER INVALID DATA TEMPLATE.
@1E@	INVALID PARAMETER IN DYNAMIC DECLARATION.
@1F@	INVALID TRANSLATE.
@20@	INVALID SUBPROGRAM TYPE.
@21@	REFERENCE ASSIGNMENT LENGTH MISMATCH.
@22@	INVALID OPERAND.
@23@	MULTIPLY RESULT IS TOO LARGE.
@24@	EVALUATION STACK UNDERFLOW.
@25@	INVALID SET MEMBER.
@26@	INVALID COMMUNICATE.
@27@	PROGRAM POINTER STACK UNDERFLOW.
@28@	REFERENCE TO AN INVALID VARIANT OF A RECORD.
@29@	ATTEMPT TO DE-REFERENCE A NULL POINTER.
@2A@	REFERENCE TO A DISPOSED DYNAMIC VARIABLE.

@28@   VALUE OUT OF RANGE.
@2C@   SET OUT OF RANGE.
@2D@   FILE DECLARED IN A RECURSIVE ROUTINE.
@2E@   ILLEGAL ASSIGNMENT TO A FOR-LOOP INDEX.
@2F@   ATTEMPT TO CHANGE A VARIANT WITH THE VARIANT IN USE.
@30@   ATTRIBUTE ERROR.
@31@   UNINITIALIZED DATA ITEM.
@35@   B 1870/B 1860 CONSOLE CASSETTE DATA ERROR
@37@   B 1870/B 1860 RWOAM DETECTED.

FIRMWARE HALTS (L=@00E0XX@ OR @000EXX@)

@02@   NO DISK CONTROL WAS FOUND ON THE SYSTEM, OR
        A CLEAR/START DISK CHANNEL WAS SPECIFIED IN THE K
        REGISTER, BUT THE DEVICE ON THE SPECIFIED CHANNEL
        IS NOT A DISK DEVICE (TE/TF=DEVICE ID).
@03@   CONTROL IS NOT IDLE; THAT IS, THE CONTROL IS NOT
        STATUS COUNT 1 (T=STATUS COUNT).
@04@   TIMEOUT WHILE WAITING FOR SERVICE REQUEST. PUSH START
        TO RETRY.
@06@   A CONTROL IS IN AN ERRONEOUS STATUS COUNT FOLLOWING A
        SERVICE.REQUEST (TF=CHANNEL).
@07@   A BAD RESULT.DESCRIPTOR WAS RECEIVED FROM A CONTROL:
        THE OP.COMPLETE BIT (BIT 0) WAS RESET
        (T=RESULT.DESCRIPTOR).
@08@   A SEEK TIMEOUT OCCURRED. PUSH START TO CONTINUE.
@0A@   A MEMORY PARITY ERROR WAS DETECTED IN I/O DATA. PUSH
        START TO CONTINUE.
@0B@   A TIMEOUT OCCURRED WHILE WAITING FOR OP.COMPLETE ON A
        PORT DEVICE. PUSH START TO RETRY.
@0C@   AN I/O EXCEPTION CONDITION REMAINED AFTER 15 RETRIES
        (T=RESULT.DESCRIPTOR). PUSH START TO RETRY.
@15@   A NAME TABLE ENTRY IS EMPTY.
@17@   SYSTEM/DUMPFILE DISK ADDRESS IS ZERO, AND A DUMP WAS
        REQUESTED (DUMP OPTION IS PROBABLY RESET).
@18@   THE DL SYSDUMP DESIGNATED PACK IS NOT ON THE PORT,
        CHANNEL, AND UNIT SPECIFIED IN THE T REGISTER.
        MOUNT THE PROPER PACK AND PUSH START.
@19@   THE COLD START VARIABLES FOR THE SYSTEM DUMPFILE
        DO NOT MATCH THE DFH OF THE DUMPFILE.
@1E@   CHECKSUM ERROR. T = SOFTWARE.ID.NO (SEE NOTE 1).
@22@   CASSETTE DATA ERROR.
@26@   THE NAME TABLE IS IN AN INCORRECT FORMAT FOR THIS
        RELEASE OF CLEAR/START.
@30@   TEXT INPUT (B 1965/B 1995 SYSTEMS) IS IN ERROR.
        PUSH START OR ENTER CORRECT TEXT AND PUSH START.
@35@   OTHER THAN SYSTEM DISK ON-LINE AT CLEAR/START
@33@   A DISCARDABLE SEGMENT OF GISMO REQUIRED BY THE SYSTEM
        HARDWARE OR SPECIFIC MCP OPTIONS THAT ARE SET IS NOT
        PRESENT IN THE SELECTED GISMO. PUSH START TO IGNORE
        THE NON-PRESENT SEGMENT AND CONTINUE.
@36@   SOFTWARE COMPATIBILITY PROBLEM.

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              TE AND TF=SOFTWARE.ID.NOS (SEE NOTE 1).
              IF TD=1 THEN X=LEVEL, Y=LEVEL
              IF TD=7 THEN X="NEEDS", Y="HAS".
     @88@    PSEUDO MAXS TOO LARGE (X=PSEUDO MAXS, Y=MAXIMUM
              VALUE ON THE SYSTEM).  PUSH START TO USE VALUE IN Y.


    NOTE 1.   SOFTWARE ID NUMBERS:
                  1=SYSTEM INITIALIZER
                  2=GISMO
                  3=MICRO MCP
                  4=MCP
                  5=SDL2 INTERPRETER
                  6=CLEAR/START
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GISMO HALTS (L=@0D00XX@)

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     @10@    CONSOLE HALT (INTERRUPT SWITCH).
     @12@    MCP WRITE OUT OF BOUNDS.  X=LIMIT.REGISTER.
     @20@    (RFAC OPTION SET) BAD REFERENCE ADDRESS RETURNED FROM A
              CONTROL (X=GOOD REFERENCE ADDRESS, Y=BAD REFERENCE
              ADDRESS, TA=CHANNEL, TE/TF=STATUS COUNT).  PUSH START TO
              USE GOOD REFERENCE ADDRESS.
     @21@    (RFAC OPTION SET) IRRECOVERABLE REFERENCE ADDRESS ERROR
              (SAME REGISTER SETTINGS AS @0D0020@ HALT).
     @22@    (RFAC OPTION SET) SOFTWARE ATTEMPTED TO SEND A REFERENCE
              ADDRESS OF ZERO TO A CONTROL.
     @24@    UNKNOWN DEVICE ID RETURNED BY A CONTROL (X=REFERENCE
              ADDRESS, TB=CHANNEL).
     @27@    (DEBUG GISMO ONLY) A PAUSE OP WAS SENT TO AN
              UNINITIALIZED CHANNEL (X=REFERENCE ADDRESS, TB=CHANNEL).
     @28@    (DEBUG GISMO ONLY) PAUSE OR SEEK.COMPLETE PROBLEM
              (X=REFERENCE ADDRESS, TB=CHANNEL).
     @30@    INTERRUPT.QUEUE OVERFLOW (X=NUMBER OF MESSAGES
              ATTEMPTED, Y=MAXIMUM ENTRIES PERMITTED).
     @31@    THE DISPATCH (INCN) REGISTER IS LOCKED, INDICATING THAT
              A PORT DEVICE IS HUNG.  (TE=PORT, TF=CHANNEL,
              X=REFERENCE ADDRESS OF MESSAGE ATTEMPTING TO BE SENT.)
     @36@    BAD COMMUNICATE.WITH.GISMO VERB (T=FA VALUE
              WHEN READING COMMUNICATE).
     @37@    BAD COMMUNICATE.WITH.GISMO ADVERB (X=COMMUNICATE
              FUNCTION, T=FA VALUE WHEN READING COMMUNICATE).
     @38@    COMMUNICATE.WITH.GISMO/GISMO.COMMUNICATE:
              PARAMETER LIST LENGTH ERROR (T=FA ADDRESS).
     @39@    BAD GISMO.COMMUNICATE VERB (X=VERB).
     @42@    A PROGRAM ATTEMPTED TO USE A DELETED GISMO FUNCTION
              (T=LIMIT.REGISTER, X=FUNCTION). RELOADING THE PROGRAM'S
              INTERPRETER IS WARRANTED BEFORE PURSUING THE PROBLEM
              FURTHER.
     @44@    THE MCP DISPATCHED AN I/O OPERATION WITH A RESULT
              DESCRIPTOR THAT WAS ALREADY IN PROCESS.
     @47@    THE PORT DEVICE RETURNED AN ILLEGAL HIGH-PRIORITY
              INTERRUPT ON A DISPATCH.READ MICRO-INSTRUCTION (INCN
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REGISTER BIT 1 SET) (TE=PORT, TF=CHANNEL,
X=REFERENCE ADDRESS + 24).

a53a CASSETTE DATA ERROR AT ENTRY TO GISMO
(Y=STATE.FLAGS, X=LIMIT.REGISTER).

a54a CPU MULTIPLE BIT PARITY ERROR (T=ELOG REGISTER
CONTENTS, Y=STATE.FLAGS, X=LIMIT.REGISTER).

a55a ATTEMPTED TO READ OR WRITE OUTSIDE THE PHYSICAL BOUNDS
OF MAIN MEMORY. X=LIMIT.REGISTER, Y=STATE.FLAGS.
IF Y EQUAL 0, READ OR WRITE OCCURED WHILE GISMO WAS
RUNNING. IF Y IS NOT EQUAL TO 0, READ OR WRITE OCCURED
WHILE THE PROGRAM WITH THE LIMIT.REGISTER IN X WAS
RUNNING.

a60a SERVICE REQUEST RECEIVED FROM A MISSING OR IGNORED
CHANNEL (TB = CHANNEL).

aA0a (DUAL PROCESSORS ONLY AND TOUT OPTION SET) CPU TI
THE PROCESSOR THAT HALTED DETECTED THAT THE OTH
PROCESSOR TIMED OUT DUE TO EITHER BEING HALTED
IN A MICRO-LOOP.

aA1a (DUAL PROCESSORS ONLY) INVALID MESSAGE SENT FRO
SLAVE PROCESSOR.

aA2a (DUAL PROCESSORS ONLY) INVALID MESSAGE SENT FROM
MASTER PROCESSOR.

aA4a (DUAL PROCESSORS ONLY) MORE UNBLOCK REQUESTS THAT BLOCK
REQUESTS WERE SENT TO THE SLAVE PROCESSOR.

aA7a (DUAL PROCESSORS ONLY) A RESET SERVICE REQUEST OPERATION
FAILS ON THE SLAVE PROCESSOR.

aA8a (DUAL PROCESSORS ONLY AND TOUT OPTION SET) HALT WHEN A
PROCESSOR HAS DETECTED THAT THE OTHER PROCESSOR HAS
HALTED WITH THE a0D00A0a HALT.

aAAa CONSOLE.INTERRUPT IS TRUE WHILE WAITING FOR RESPONSE
FROM A DCPU.DISPATCH.

a103a ATTEMPTED TO DECREMENT RS.BLOCK.COUNT WHICH WAS
ALREADY ZERO.

MICRO MCP HALTS (L=a0200XXa)

a04a A BAD VALUE FOR IO.MCP.IO WAS DETECTED WHILE EXAMING AN
I/O DESCRIPTOR.

a07a GISMO REQUESTED CONTROL OF THE PROCESSOR, RETURNING
A RESULT THAT THE MICRO MCP IS UNABLE TO HANDLE
T REGISTER CONTAINS THE RESULT RETURNED).

a08a AN I/O DISPATCH TO GISMO RETURNED A RESULT THAT
DISPATCH WAS UNSUCCESSFUL (THE T REGISTER CONTAINS THE
RESULT RETURNED).

a09a A COMMUNICATE MESSAGE WAS NOT WITHIN THE BASE-TO-LIMIT
SPACE OF THE PROGRAM DOING THE COMMUNICATE.

a10a THE MICRO MCP WAS REQUESTED TO HANDLE A COMMUNICATE
THAT IT IS NOT CAPABLE OF HANDLING.

a11a IRRECOVERABLE ERROR IN THE MICRO MCP. THE T REGISTER
CONTAINS THE FIRST SIX DIGITS OF THE MICRO MCP SOURCE
SEQUENCE NUMBER WHERE THE HALT OCCURED.

a12a MICRO MCP CONDITIONAL.HALT. THE T REGISTER CONTAINS THE

FIRST SIX DIGITS OF THE MICRO MCP SOURCE SEQUENCE NUMBER
WHERE THE HALT OCCURED.

@13@ ON A DELAYED RANDOM I/O, THE RESULT.DESCRIPTOR INDICATES
THAT THE I/O OPERATION HAS BEEN INITIATED, BUT THE
IO.MCP.IO FIELD IS IN AN IMPROPER STATE.

@21@ A HIGH-PRIORITY INTERRUPT WAS FOUND, BUT THE IO.COMPLETE
BIT (BIT 0 OF THE RESULT.DESCRIPTOR) WAS NOT SET,
INDICATING THAT THE I/O WAS NOT YET COMPLETE.

@22@ A DISPATCH OF A POCKET.SELECT OPERATION THROUGH
RETURNED A RESULT INDICATING THAT THE DISPATCH
UNSUCCESSFUL (T=RESULT RETURNED).

@23@ A POCKET.COMPLETE OR DOUBLE.DOCUMENT RESULT WAS
EXPECTED, BUT NOT OBTAINED, FROM A POCKET.SELECT
DISPATCH (T=RESULT RETURNED).

MCP HALTS (L=@000011@)

WHEN THE MCP EXECUTES AN EXPLICIT HALT INSTRUCTION, THE L
REGISTER IS SET TO @000011@ AND A PARAMETER IS LOADED INTO THE T
REGISTER TO FURTHER DEFINE THE NATURE OF THE HALT. USUALLY, THIS
PARAMETER IS THE FIRST SIX DIGITS OF A SEQUENCE NUMBER IN THE MCP
ITSELF;   HOWEVER,   SOME HALT CONDITIONS OCCUR AT MORE THAN ONE
PLACE IN THE MCP.   THESE ARE GIVEN A COMMON IDENTIFIER,   AS
FOLLOWS:

T REGISTER	REASON
@111111@	NO MEMORY
@333333@	THIS MCP IS MISSING PATCHES. PUSH START TO CONTINUE.
@CXXXXX@ @DXXXXX@ @EXXXXX@ @FXXXXX@	DISK I/O ERROR. PUSH START FOR PORT, CHANNEL, AND UNIT.

@0000CXX@   SYSTEMS SOFTWARE COMPATIBILITY ERROR
                   THE LOW-ORDER EIGHT BITS OF THE T REGISTER
                   CONTAINS TWO 4-BIT NUMBERS IDENTIFYING THE TWO
                   PROGRAMS THAT ARE INCOMPATIBLE, AS FOLLOWS:

                   1   SYSTEM INITIALIZER
                   2   GISMO
                   3   MICRO MCP
                   4   MCP
                   5   SDL2 INTERPRETER

ALL OTHER HALTS POINT TO A SPECIFIC SEQUENCE NUMBER IN THE MCP.
THE HALTS MARKED WITH AN ASTERISK CHARACTER (*) CAN BE PUSHED
THROUGH BY PUSHING START.   ALL OTHER HALTS ARE IRRECOVERABLE; A
MEMORY DUMP SHOULD BE TAKEN AND SUBMITTED WITH SUPPORTING
DOCUMENTATION AND A B 1000 FIELD TROUBLE REPORT.

    T REGISTER   REASON FOR HALT
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    @037870@   ATTEMPT TO INITIATE IN-PROCESS I/O.
    @037925@   DISPATCH TO INVALID PORT OR CHANNEL.
    @038000@   QLOCK.COUNT OVERFLOW.
    @038020@   QLOCK.COUNT UNDERFLOW.
    @038615@   GOT AN INTERRUPT FROM THE MICRO MCP.
    @038630@   MEMORY PARITY ON DISPATCH (INTERRUPT FROM CHA'
    @039438@   MCP ATTEMPTED A DISK I/O, BUT THE PORT AND CH:
                       NOT FOR A DISK UNIT.
    @039439@ *   A DISK I/O DID NOT COMPLETE IN 30 SECONDS. PUS-
                       START ONCE - T CONTAINS THE RESULT DESCRIPTOR.
                       PUSH START AGAIN - T CONTAINS THE PORT, CHANNEL,
                       AND UNIT. PUSHING START AGAIN CAUSES THE MCP
                       TO WAIT FOR 30 SECONDS MORE.
    @040475@   MCP ASKED TO RETRY A DISK OPERATION THAT WAS NOT
                       COMPLETE WITH AN I/O EXCEPTION.
    @040581@ *   BAD MEMORY STATISTICS (NON-RELEASE MCP ONLY).
    @040708@   BROKEN MEMORY LINK.
    @040713@   INCORRECT LINKAGE FOUND IN QUEUE STRUCTURES, OR
                       AN INCORRECT ITEM TYPE IN QUEUE AVAILABLE STRUCTURE,
                       OR A BAD BACKWARD LINK IN QUEUE AVAILABLE CHAIN.
    @040714@   HINTS.LAST_OVERLAY IS NOT POINTING TO A VALID LINK.
    @041494@   BAD "POINTER" FIELD IN MEMORY LINK.
    @043010@   SEGMENT DICTIONARY MARKED SAVE.
    @043602@   A MEMORY LINK WHICH SHOULD HAVE BEEN MARKED SAVE WAS
                       NOT SO MARKED.
    @044320@   BROKEN MEMORY LINK.
    @046045@   COULD NOT OPEN ODT QUEUE.
    @046060@   COULD NOT FIND ODT_Q_FILE.
    @046385@   INVALID INTERRUPT FOR THE MCP.
    @046685@   INVALID INTERPRETER-GENERATRED COMMUNICATE.
    @047707@   PROGRAM IS MARKED WAITING I/O COMPLETE, YET NO

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                      I/O OPERATIONS ARE IN PROCESS.
@047741@        MCP FELL OUT OF THE OUTER_LOOP.
@049169@        SYSTEM/ELOG DISAPPEARED FROM THE SYSTEM DISK.
@049174@        DRIVE TRANSFORMATION TABLE IS INCORRECT.
@049545@  *     INTEGRITY ERROR ON SYSTEM DISK FOUND AT CLEAR/START.
@049570@  *     THE DL SYSDUMP DESIGNATED PACK IS A USER PACK,
                BUT THE OLD FIELD CSV.DUMP_FILE IS NON ZERO.
@050755@        FAILED TO ABSOLUTIZE GISMO OR SDL INTERPRETER.
@051035@        CANNOT FIND AN IOAT FOR THIS SYSTEM DISK.
@051656@  *     ODT FAILED TO RESPOND TO A TEST OP.  PUSH START FOR
                ODT PORT AND CHANNEL.  PUSH START AGAIN FOR THE
                REFERENCE ADDRESS.
@051722@        TRIED TO CM AND CLEAR/START 12.0 SOFTWARE ON AN
                11.0 SYSTEM DISK.
@051744@        THE COLD START VARIABLES HAVE BEEN CHANGED BY
                MCP; PLEASE CLEAR/START AGAIN.
@052300@        INVALID DISPATCH WHILE ATTEMPTING TO REWIND A
                UNIT AT CLEAR/START.
@052592@        A CONTROL DID NOT RESPOND TO TEST OP AFTER A
                30-SECOND WAIT (AT CLEAR/START). PUSH START
                ONCE -- T CONTAINS PORT AND CHANNEL.  PUSH
                START AGAIN -- T CONTAINS I/O DESCRIPTOR
                ADDRESS.
@052640@        TOO MANY DATACOMM PORT/CHANNELS ON THIS SYSTEM.
@053727@        MISCALCULATED REQUIRED SIZE OF THE IOAT DURING
                CLEAR/START.
@054268@        ODT MEMORY INITIALIZATION PROBLEM AT CLEAR/START.
@054536@        FAILED TO FIND A SYSTEM DISK THAT CLEAR/START HAD
                ALREADY FOUND ONCE BEFORE.
@055020@        UNEXPECTED PORT CHANNEL UNIT FOUND FOR DISK DRIVE.
@057727@        QWIK DISK IS ON THE SYSTEM YET NOT IN THE IOAT.
@058377@        NO MEMORY TO UPDATE POINTERS TO THE SYSTEM DUMPFILE.
@058447@        GISMO GAVE ERROR RECOVERY ROUTINE BAD INSTRUCTIONS.
@058448@        GISMO GAVE ERROR RECOVERY ROUTINE BAD INSTRUCTIONS.
@058449@        MICRO MCP SEGMENT FAULT IMPROPERLY ROUTED.
@062020@        DISPATCH TO INVALID PORT OR CHANNEL.
@062100@        DISPATCH TO INVALID PORT OR CHANNEL.
@062240@        MCP IS LOST DURING PUNCH CHECK RECOVERY.
@062760@        DISPATCH TO INVALID PORT OR CHANNEL.
@069470@        I/O COMPLETE FOR ROLLOUT, BUT THAT TASK IS NOT
                BEING ROLLED OUT.
@069740@        IN IOCOMPLETE PROCEDURE, AN I/O IN QUESTION IS NOT
                COMPLETE.
@070210@        INVALID IO.TYPE - 32.
@073042@        WHILE LOOKING FOR AVAILABLE SPACE ON A SYSTEM DISK,
                THE MCP FOUND THE UNIT NOT TO BE A SYSTEM DISK.
@075950@        A DICTIONARY IS IN MEMORY, BUT ITS MEDIA BIT IS OFF.
@076790@        NO MEMORY FOR DATA OVERLAYS.
@077985@        AN INCORRECT OFFSET INTO THE DFH DICTIONARY WAS FOUND.
@078562@        DFH DICTIONARY IMPROPERLY FORMATTED.
@078883@        DFH DICTIONARY IMPROPERLY FORMATTED.
@078893@        WFL DATA DECK ERRONEOUSLY MARKED AS NEW FILE.
@079122@        DFH DICTIONARY SIZE NOT EQUAL TO ACTUAL HEADER SIZE.
@080129@        WFL DATA DECK ERRONEOUSLY MARKED AS NEW FILE.
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a080374a  *   DICTIONARY MEDIA BOOLEAN FALSE FOR DFH IN MEMORY.
a080610a  *   BAD VALUE PASSED TO HEADER.UPDATE.
a080633a      WFL DATA DECK ERRONEOUSLY MARKED AS NEW FILE.
a081770a      POWER DOWN MPF FAILED.
a085560a      AN ISAM I/O WAS IN PROCESS WHILE UPDATING BUFFERS.
a088743a      MCP ASKED TO HANDLE FILE PROTECTION THAT SHOULD
              HAVE BEEN DIRECTED TO THE MICRO MCP.
a088746a      MCP ASKED TO HANDLE FILE PROTECTION THAT SHOULD
              HAVE BEEN DIRECTED TO THE MICRO MCP.
a090085a  *   MCP RETRYING AN I/O FOR WHICH THERE IS NO EVIDENCE
              OF AN ERROR CONDITION.
a090087a  *   MCP RETRYING AN ERROR FOR WHICH THERE IS NO EVIDENCE
              OF AN ERROR CONDITION..
a091140a      AN OPEN PSEUDOREADER FILE IS NOT POINTING AT AN
              EXISTANT PSEUDOREADER.
a096124a      CONFILCT ON IN-PROCESS BOOLEAN FOR I.S. MEMORY BUFFER.
a101020a      I.S. FINE TABLE LINKS ARE INVALID.
a103680a      I.S. CURRENTS MISSING FOR TASK.
a111111a      NO MEMORY.
a112771a      BAD DESCRIPTOR FOUND DURING I/O TO A QUEUE FAMILY.
a115200a      FILE NOT OPEN CONDITION NOT SCREENED OFF BY
              R_W_CALLER.
a115300a      ENHANCED I/O NOT ALLOWED.
a122512a      ILLEGAL PORT IN I/O DESCRIPTOR.
a123481a  *   TAPE CONTROL APPEARS TO BE HUNG.
a126015a      PROBLEM WITH SKIPPING AN EMPTY AREA OF A DISK FILE.
a126095a      CALL ON GET.NEW.AREA WITH POSITION COMMUNICATE IS
              INVALID.
a126480a      COULD NOT UPDATE BASE PACK HEADER.
a126590a      UNRECOGNIZABLE COMMUNICATE CALLED GET.NEW.AREA.
a140450a      BAD CALL ON OPEN_QUEUE.
a140460a      BAD CALL ON OPEN_QUEUE.
a140860a      BAD CALL ON GET_QUEUE.MESSAGE.
a140870a      BAD CALL ON GET_QUEUE_MESSAGE.
a140880a      BAD CALL ON GET_QUEUE_MESSAGE.
a140890a      BAD CALL ON GET_QUEUE.MESSAGE.
a140900a      BAD CALL ON GET_QUEUE.MESSAGE.
a148390a      TRIED TO ERRONEOUSLY RETURN NON Q_DISK TO AVAILABLE.
a148477a      PROBLEM RETURNING Q_DISK.
a153990a      DISK I/O ERROR IN USERCODE VERIFICATION ROUTINES.
a154190a      NO MEMORY TO VERIFY SECURITY.
a154670a      INVALID USERCODE.
a158686a      INVALID PARAMETER PASSED TO USERCODE PROCESSIN
              ROUTINES.
a158710a      INVALID USERCODE.
a159890a      ERROR IN RIB LIST INTEGRITY.
a159975a      BAD CALL ON GET_QUEUE_MESSAGE.
a165430a      CANNOT HANDLE TYPE INDIRECT IN A CODE DICTION
a173651a  *   DURING PROGRAM INITIATION, ATTEMPTED TO BUMP T
              USERCOUNT IN THE INTERPRETER FILE DFH - BUT THE
              INTERPRETER IS ALREADY IN THE INTERPRETER DICTIONARY.
a173712a      DURING PROGRAM INITIATION, ATTEMPTED TO ASSIGN AN NEW
              INTERPRETER TO AN INVALID INTERPRETER DICTIONARY
              INDEX.
```

@1751110@	*	LOST TRACK OF NUMBER OF USERS OF A SEGMENT DICTIONARY.
@1752280@		PROG.SPAD.PTR NOT POINTING TO SEGMENT TWO OF THE PPB.
@1795900@		NO CALLER ON AN IPC CALL.
@1798050@		PARENT JOB OF A TASK HAS DISAPPEARED.
@1816100@		MEMORY ALLOCATION FOR AN RSN IS INCORRECT IN FIREPROG.
@1818100@		MEMORY ALLOCATION FOR AN ESN IS INCORRECT IN FIREPROG.
@1871550@		NO MEMORY TO READ IN NAME TABLE AFTER DISK SQUASH.
@1889220@		RIB LIST CORRUPTION WHILE HANDLING A DEATH_IN_FAMILY.
@1929800@		DISK ADDRESS IN TASK VARIABLE TABLE EQUALS ZERO.
@1932840@		LOST TRACK OF A TASK'S PARENT.
@1938500@		NO SCHEDULE ENTRY FOR SUCCESSOR ON UNCONDITIONAL EXECUTE.
@1952800@		Q_KEY STORED IN QPTR IS NOW BAD.
@1954840@		TRIED TO RETURN A CHUNK OF DISK WHOSE ADDRESS EQUALS ZERO.
@1955250@		AN RSN HAD A ZERO TASK_VARIABLE_TABLE ADDRESS.
@1957340@		ILLEGAL VALUE RETURNED FROM MCP TASKING ROUTINES.
@1957350@		ILLEGAL VALUE RETURNED FROM MCP TASKING ROUTINES.
@1986100@		Q_KEY FOR ODT_QUEUE IS BLOWN.
@2006910@		A PROGRAMS DMS_GLOBALS WHERE NON-ZERO AT EOJ TIME.
@2008600@		TERM_FINAL FAILED.
@2019200@		TERMINATING A TASK THAT DOES NOT EXIST ON DISK.
@2023500@		TERMINATING A TASK THAT DOES NOT EXIST ON DISK.
@2091800@		A PAGE DICTIONARY WAS ILLEGALLY OVERLAID.
@2102300@		CANNOT FIND THE FILE THAT WE ARE CURRENTLY USING.
@2108800@	*	SY_TYPE EQUALS SYSTEM_DESC AND SY_FILE ON.
@2116700@		ENVIRONMENT ADDRESS DESTROYED IN MOVE_ES_REMNA.
@2179300@		IO_MCP_IO ON A USER FILE IN NOT EQUAL TO ZERO.
@2200000@		IN ROLLOUT FOR A FROZEN TASK.
@2217100@		COULD NOT FIND PSEUDO READER THAT WAS IN USE.
@2226251@		ILLEGAL PARENT JOB NUMBER FOR A TASK.
@2226253@		TASK POINTS AT ANOTHER TASK'S TASK_VARIABLE_TABLE.
@2271300@		NO SUCH TASK SCHEDULED.
@2272100@		INVALID KEY PASSED TO CLOSE_QUEUE.
@2277000@		SCHEDULED A TASK THAT DOES NOT EXIST ON DISK.
@2323600@		INVALID MICR COMMUNICATE.
@2233567@	*	NO IOAT ENTRY FOR A GIVEN PACK_INFO_TABLE.
@2233882@	*	NO IOAT ENTRY FOR A GIVEN PACK_INFO_TABLE.
@2234638@		THE SYSTEM DISK IS NOT IN THE IOAT.
@2238570@		DISCOVERED BAD PACK LABEL.
@2245120@		I/O WILL NOT COMPLETE WHILE TRYING TO READY A DISK.
@2245440@		NO IOAT FOR CURRENT DISK UNIT (MAKE_DISK_ABSOLUTE).
@2248140@		CANNOT FIND MPF_INFO_TABLE ALREADY IN USE.
@2249050@		BAD DISK FILE HEADER.
@2500080@	*	CANNOT FIND ENTRY IN MPF_TABLE.
@2502300@		CANNOT FIND MPF_INFO_TABLE ALREADY IN USE.
@2562900@		TRIED TO REMOVE TRACKS FROM A NON-DISK DEVICE.
@2569420@		BAD DISK PCU FOUND IN TEMPORARY TABLE MANAGEMENT.
@2570800@		NO DISK AVAILABLE FOR TEMPORARY AVAILABLE TABLE.
@2572320@		A PCU OF ZERO WAS FOUND WHILE PUTTING A CHUNK OF DISK INTO THE TEMPORARY AVAILABLE TABLE.

ә2580005ә		A CHUNK OF DISK WITH A PCU OF ZERO WAS FOUND IN AN AVAILABLE TABLE.
ә2581500ә		MCP WAS ASKED TO FIND THE TEMPORARY AVAILABLE TABLE ON A NON-DISK PCU.
ә2588585ә		ATTEMPTED TO PERMANENTLY ALLOCATE DISK ON A RAM UNIT.
ә2611020ә		TRIED TO RETURN DISK TO AN OFFLINE DISK DEVICE.
ә2627700ә		TRYING TO RETURN DISK ALREADY IN THE AVAILABLE TABLE.
ә2628800ә		RETURNING AN INVALID DISK ADDRESS (MSG SPOUTED).
ә2631400ә		RETURNING NON ZERO DISK ADDRESS WITH ZERO PCU.
ә2633300ә		RETURNING NON ZERO DISK ADDRESS WITH ZERO PCU.
ә2648420ә		NO DISK TO EXTEND AN AVAILABLE TABLE.
ә2699300ә		RETURNING NON ZERO DISK ADDRESS WITH ZERO PCU.
ә2702890ә	*	INVALID AVAILABLE TABLE, ADDRESSES OUT OF SEQUENCE. PUSH START TO CONTINUE AND RUN SYSTEM/PANDA TO CHECK DISK.
ә2718200ә		BAD ENTRY FOUND IN TEMPORARY DISK AVAILABLE TABLE.
ә2895400ә		BAD DISK DIRECTORY.
ә2901400ә		IRRECOVERABLE DISK I/O ERROR ON FILE HEADER READ.
ә2918600ә		NO DISK AVAILABLE FOR DIRECTORY EXPANSION.
ә2920200ә		IRRECOVERABLE DISK I/O ERROR ON FILE HEADER READ.
ә2922600ә		DISK DIRECTORY HAS BEEN CORRUPTED.
ә2939520ә	*	PROBLEMS WHILE DOING DISK DIRECTORY MANIPULATION.
ә2964250ә		SYSTEM/ODT REMOTE FILE OPEN DENIED - FILE MISSING.
ә2964300ә		SYSTEM/ODT REMOTE FILE OPEN DENIED - FILE LOCKED.
ә2964350ә		SYSTEM/ODT REMOTE FILE OPEN DENIED - ADAPTER MISSING/LOAD FAILED.
ә2964400ә		SYSTEM/ODT REMOTE FILE OPEN DENIED - MCS DENIED OPEN.
ә2964450ә		SYSTEM/ODT REMOTE FILE OPEN DENIED - TOO MANY REMOTE FILES.
ә2964500ә		SYSTEM/ODT REMOTE FILE OPEN DENIED - LSN MISSING.
ә2964550ә		SYSTEM/ODT REMOTE FILE OPEN DENIED - TOO NESTED.
ә2964600ә		NETWORK CONTROLLER RUN ERROR DETECTED.
ә2964650ә		SYSTEM/ODT REMOTE FILE OPEN DENIED - TOO MANY STATIONS.
ә2973100ә	*	ILLEGAL PARAMETER PASSED TO PROCEDURE SPOUT_INVALID.
ә2976050ә		INSUFFICIENT SYSTEM DISK TO OPEN A QUEUE FILE FROM THE MCP TO SYSTEM/ODT.
ә2983250ә		NO MEMORY TO PASS A MESSAGE TO SYSTEM/ODT.
ә2989260ә		INVALID DISK TYPE FOUND IN THE IOAT.
ә3009880ә	*	THE SYSTEM/LOG FILE IS NOT IN THE DISK DIRECTORY.
ә3012360ә		NO DISK FOR HEADER FOR NEW LOG.
ә3015840ә		MISSING LOG FILE.
ә3021950ә		INCORRECT LOG_MIX_INFO FOR A TASK.
ә3024100ә		ATTEMPTED TO REALLOCATE LOG_MIX_INFO FOR A TASK.
ә3030050ә		NO SUBPORT ADDRESS FOR SUBPORT LOG ENTRY.
ә3056650ә		FAILED TO QUEUE A MESSAGE FOR AUTOBACKUP.
ә3057150ә		FAILED RECEIVING MSG FROM QUEUE FOR AUTOBACKU.
ә3057350ә		FAILED RECEIVING MSG FROM QUEUE FOR AUTOBACKU
ә3057400ә		FAILED RECEIVING MSG FROM QUEUE FOR AUTOBACKU
ә3057450ә		FAILED RECEIVING MSG FROM QUEUE FOR AUTOBACKU
ә3057600ә		FAILED CLOSING QUEUE FOR AUTOBACKUP.
ә3107600ә		PORT FILE IS OPEN BUT SUBPORT-ATTRIBUTES DISK SPACE IS NOT ASSIGNED.

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@313350@       EXCEEDED SUBPORT INDEX WHILE LOOKING FOR CHANGE EVENT.
@328980@       SYSTEM/DUMPFILE NOT LARGE ENOUGH FOR DM COMMAND.
@329383@ *     ATTEMPTED TO TAKE A SYSTEM DUMP, BUT THE DL SYSDUMP
               DISK IS NOT ONLINE (DISK MAY BE IN PROCESS OF BEING
               READIED).  PUSH START TO CONTINUE.  THE MEMORY
               DUMP IS NOT TAKEN.
@332009@       WHEN REMOVING A SORT FROM THE SCHEDULE, THE SORT'S
               USERCODE WAS FOUND TO BE INVALID.
@332014@       A SCHEDULED SORT VANISHED FROM THE SCHEDULE.
@333333@ *     THIS MCP IS MISSING PATCHES.
@344907@       THE PROGRAM WHICH CALLED A SORT HAS DISAPPEARED.
@349240@       AN I/O DID NOT COMPLETE AFTER A 30-SECOND WAIT
               IN THE IO.ERROR ROUTINE. PUSH START ONCE -- T
               CONTAINS I/O DESCRIPTOR ADDRESS. PUSH START AGAIN
               T SHOWS WHETHER OP WAS COMPLETE.
@349412@       ERROR RECOVERY REQUESTED ON AN INCOMPLETE I/O.
@349413@       DISPATCH TO GISMO FAILED IN ERROR RECOVERY.
@357303@       UNEXPECTED PORT/CHANNEL/UNIT FOUND FOR DISK DRIVE
@384440@       DISPATCH TO AN INVALID PORT OR CHANNEL.
@387880@       FIB INDICATES PARTIAL BLOCK BUT BLOCK COUNT = 0.
@401510@       TAPE I/O DID NOT COMPLETE AFTER A 30-SECOND WAIT.
               PUSH START ONCE -- T CONTAINS I/O DESCRIPTOR
               ADDRESS. PUSH START AGAIN -- T SHOWS RESULT
               DESCRIPTOR FIELD.
@407742@ *     THE PAN NAME TABLE ENTRY IS EMPTY.
@408020@       READ OF A DISK PACK LABEL FAILED TO COMPLETE IN
               THIRTY SECONDS.
@408594@       MISSING PACK_INFO_TABLE FOR A PACK COMING ON-LINE.
@411760@       NON-CARD DEVICE IN CARD_STATUS.
@414238@       DSC HUNG WHILE BUILDING MASTER AVAILABLE TABLE
               FOR QWIK DISK.
@419600@       TAPE I/O DID NOT COMPLETE AFTER A 30-SECOND WAIT.
               PUSH START ONCE -- T CONTAINS I/O DESCRIPTOR
    ✻ @430373@ ADDRESS. PUSH START AGAIN -- T SHOWS RESULT
               DESCRIPTOR FIELD.
@445690@       CANNOT FIND TRANSLATE FILE THAT WAS ALREADY IN USE.
@452000@       NO SPACE ALLOCATED FOR ANSI.BUFFER.SPACE.
@477690@ *     PROBLEM RETURNING DISK TO AVAILABLE TABLES.
@478420@       CANNOT FIND TRANSLATE FILE THAT WAS ALREADY IN USE.
@482926@ *     FIB AND FPB FOR AN OPEN FILE DIFFER IN PROTECTION.
@483341@       DISK FILE HEADER MANAGEMENT PROBLEM..
@486720@       MISSING FILE HEADER FOR A MULTIPACK FILE.
@487610@       CANNOT FIND PACK THAT IS ALREADY IN USE.
@493110@       VERIFY USERCODE FAILED WHEN OPEN.SET.OVERRIDE.
@493571@       MISMANAGEMENT IN PROCESSOR SCHEDULING.
@514910@       CANNOT FIND TRANSLATE FILE THAT WAS ALREADY IN USE.
@521700@       PSEUDO READER LINKS ARE INVALID.
@535560@       QUEUE NOT A QUEUE OR NOT A DISK QUEUE.
@535620@       CANNOT FIND DISK.
@536460@       INVALID PARAMETERS PASSED TO OPEN_QUEUE.
@537010@       INVALID PARAMETERS PASSED TO CLOSE_QUEUE.
@537920@       NO MULTILINE FOR REMOTE OPEN FOR SYSTEM/ODT.
@538070@       INVALID PARAMETERS PASSED TO PUT_QUEUE_MESSAGE.
@540430@       BAD CALL ON OPEN_QUEUE.
```

✻ Not Complete on Tape I/O After 30 Seconds Reading Tape Header

@5433000@		DEVICE IS NOT A DATA RECORDER.
@5452200@		ATTEMPTED TO OPEN A DATA RECORDER OTHER THAN INPUT OR OUTPUT.
@5457200@		ATTEMPTED TO OPEN A DATA RECORDER OTHER THAN INPUT OR OUTPUT.
@5484800@		INVALID PARAMETERS PASSED TO PUT_QUEUE_MESSAGE.
@5542220@		I/O DESCRIPTORS FOR A FILE HAVE CORRUPTED LINKS.
@5545900@		MCP WAS UNABLE TO CLOSE A QUEUE FILE FAMILY.
@5553610@		MCP ATTEMPTED TO CLOSE AN UNOPENED READER/SORTER FILE.
@5636300@		COULD NOT POWER DOWN CONTINUATION PACK.
@5638100@		CANNOT FIND BASE PACK.
@5647100@		LOST A DISK FILE HEADER FOR A PSEUDO READER.
@5649300@		MPF_TABLE HAS BEEN DESTROYED.
@5668220@		RETURN_DISK FAILURE WHEN CLOSING A DISK FILE.
@5746640@		QUEUE MANAGEMENT PROBLEM.
@5751800@		INVALID PARAMETERS PASSED TO PUT_QUEUE_MESSAGE.
@5753300@		INVALID PARAMETERS PASSED TO CLOSE_QUEUE.
@5753600@		INVALID PARAMETERS PASSED TO CLOSE_QUEUE.
@5761200@		CLOSE_QUEUE INVALID QUEUE ADDRESS.
@5762000@		CLOSE_QUEUE INVALID QUEUE ADDRESS.
@5772800@		INVALID PARAMETERS PASSED TO PUT_QUEUE_MESSAGE.
@5779400@		INVALID PARAMETER RETURNED FROM PUT_QUEUE_MESSAGE.
@5780000@		INVALID PARAMETER PASSED TO CLOSE_QUEUE.
@5780200@		INVALID PARAMETER PASSED TO CLOSE_QUEUE.
@5782440@		COULD NOT FIND A TASK'S PARENT JOB.
@5852700@	*	ISAM SUBFILE FILE SECURITY VIOLATION.
@5866000@	*	ERROR FINDING FIB FOR I.S. SUBFILE.
@5866900@		ISAM SUBFILE MISSING FOR HANG_PROGRAM_UP.
@5928200@		ISAM CLOSE REMOVE IS MISSING A FILE.
@5929700@	*	ISAM GLOBAL FILE DISAPPEARED.
@5935900@		MISMANAGEMENT OF ISAM NUMBER OF USERS.
@5939850@	*	UNEXPECTEDLY HIGH NUMBER OF I/OS IN ISAM CLOSE.
@5962300@		BEGIN ADDRESS OF I/O HIGHER THAN MCP LIMIT REGISTER.
@5962800@		DISPATCH TO INVALID PORT OR CHANNEL.
@6006700@		FAILED TO DELIVER AN ENABLE_QUEUE MESSAGE.
@6010200@		PUT_QUEUE_MESSAGE FAILED OR BAD PARAMETERS PASSED.
@6015500@		FAILED TO DELIVER A DISABLE_QUEUE MESSAGE.
@6023400@		PUT_QUEUE_MESSAGE FAILED.
@6041000@		PUT_QUEUE_MESSAGE FAILED OR BAD PARAMETERS PASSED.
@6044200@		PUT_QUEUE_MESSAGE FAILED OR BAD PARAMETERS PASSED.
@6051700@		INVALID QUEUE ADDRESS PASSED TO CLOSE_QUEUE.
@6052300@		GET_QUEUE_MESSAGE FAILED - EMPTY QUEUE.
@6052600@		GET_QUEUE_MESSAGE FAILED.
@6052700@		GET_QUEUE_MESSAGE FAILED.
@6052800@		GET_QUEUE_MESSAGE FAILED.
@6052900@		GET_QUEUE_MESSAGE FAILED.
@6069300@		FAILED TO DELIVER A QUEUE MESSAGE.
@6079400@		PUT_QUEUE_MESSAGE BAD PARAMETERS PASSED.
@6080100@		RECEIVE DID NOT RETURN.
@6116000@		COULD NOT FIND AN LSN THAT SHOULD BE PRESENT.
@6154850@		BAD LINKAGE IN QUEUE AVAILABLE BUFFER CHAIN.

@616210@	ATTEMPT CLEAN-UP OF QUEUE MESSAGE NOT IN-PROCE
@617320@	I/O DESCRIPTOR NOT COMPLETE.
@618050@	NO MESSAGE FOUND.
@619330@	NO MESSAGE FOUND.
@624770@	QUEUE MEMORY LINK DATA STRUCTURE BROKEN.
@625060@	QUEUE MUST BE EMPTY HERE.
@625522@	CLOSING A QUEUE FAMILY, PROBLEM OCCURRED RETU DISK TO THE AVAILABLE TABLE.
@625634@	RETURN_DISK PROBLEM WHILE CLOSING A QUEUE FILE
@625730@	CLOSING A QUEUE FAMILY, A MEMBER OPENED OUTPUT HAS A ZERO WRITER COUNT.
@625841@	CLOSING A QUEUE FAMILY, COUNT NOT GET DISK TO KEEP SPECIFIC FAMILY MEMBER OPEN.
@629034@	RETURN_DISK PROBLEM AFTER OPENING A QUEUE.
@629100@	BAD FIB OR FPB ADDRESS WHILE OPENING A QUEUE FILE FAMILY..
@629142@	UNABLE TO SUCCESSFULLY OPEN A MEMBER OF A QUEUE FILE FAMILY.
@630390@	QUEUE FIB NOT IN MEMORY.
@631030@	INVALID RETURN FROM CLOSE_QUEUE.
@631880@	INVALID PARAMETERS PASSED TO OPEN_QUEUE.
@634500@	ATTEMPTED TO HANDLE ENABLE/DISABLE REPLY WITH NO NDL HANDLER.
@634530@	ATTEMPTED TO HANDLE ENABLE/DISABLE REPLY FOR A NON-PRESENT REMOTE FIB.
@635360@	NO MEMORY TO ADD STATION.
@635980@	QUEUE CLOSE PROBLEMS WHILE FIRING A NEW CONTROLLER.
@638500@	INVALID PARAMETERS PASSED TO PUT_QUEUE_MESSAGE
@639030@	INVALID PARAMETERS PASSED TO PUT_QUEUE_MESSAGE
@639690@	INVALID PARAMETERS PASSED TO PUT_QUEUE_MESSAGE
@640380@	INVALID VALUE RETURNED FROM PUT_QUEUE_MESSAGE.
@643920@	UNEXPECTED RETURN FROM PUT_QUEUE_MESSAGE.
@643930@	UNEXPECTED RETURN FROM PUT_QUEUE_MESSAGE.
@644630@	BAD CALL ON OPEN_QUEUE.
@644650@	BAD CALL ON OPEN_QUEUE.
@692560@	PORT I/O REQUEST WITH NO FIB.
@699370@	INVALID PARAMETERS PASSED TO OPEN_QUEUE.
@699490@	INVALID PARAMETERS PASSED TO OPEN_QUEUE.
@707430@	INVALID PARAMETER RETURNED FORM PUT_QUEUE_MESSAGE.
@707540@	BNALIO WITH NO FIB.
@711800@	GET_QUEUE_MESSAGE PROBLEM.
@711820@	GET_QUEUE_MESSAGE PROBLEM.
@711830@	GET_QUEUE_MESSAGE PROBLEM.
@718732@	PARAMETER PASSED TO SEARCH_EQUALS WAS NOT 30 CHARACTERS IN LENGTH.
@719186@	PARAMETER PASSED TO SEARCH_EQUALS_TASK_SYNTAX WAS NOT 30 CHARACTERS IN LENGTH.
@724880@	COULD NOT SUCCESSFULLY ENQUEUE AN OBJ STATEMENT.
@724890@	COULD NOT SUCCESSFULLY ENQUEUE AN OBJ STATEMENT.
@727830@	IPC CALLER NO LONGER IN THE MIX.
@744640@	PRIOR TASK NO LONGER IN THE MIX.
@754510@	INVALID PARAMETER PASSED TO CLOSE_QUEUE.
@754590@	BAD CALL ON CLOSE_QUEUE.
@756875@	FAILED RECEIVING MESSAGE FROM QUEUE FOR AB.

@7563880@		FAILED RECEIVING MESSAGE FROM QUEUE FOR AB.
@7569050@		FAILED CLOSING QUEUE FOR AB.
@7570150@	*	AB NUMBER DOES NOT MATCH AUTO PRINT QUEUE.
@7588380@		CANNOT FIND TASK THAT ZIPPED "AT" MESSAGE.
@7590000@		FIND_UNIT FAILED TO FIND A DEVICE.
@7596450@		INCORRECT CALL ON OPEN_QUEUE.
@7596500@		INCORRECT CALL ON OPEN_QUEUE.
@7599600@		INCORRECT CALL ON PUT_QUEUE_MESSAGE.
@7599650@		INCORRECT CALL ON PUT_QUEUE_MESSAGE.
@7774291@		DISK ERROR RATE MANAGEMENT PROBLEMS.
@7779132@		IN IL, DMS ENVIRONMENT RUNNING FOR A NON-DMS JOB.
@7779225@		RSN.RS_FILE EXCEEDS NUMBER OF FILES.
@7779295@		RSN.RS_FILE EXCEEDS NUMBER OF FILES.
@7779561@		MISSING PARENT JOB WHILE DOING A JOBSTART.
@7793595@		IN OU, JOB FOUND TO HAVE ILLEGAL RS_FILE VALUE.
@7798600@		IN OU FOR DMS FILE, RS_DMS_GLOBALS WAS ZERO.
@8080250@		INVALID USERCODE IN PV.
@8080650@		INVALID USERCODE IN PV.
@8081100@		INVALID USERCODE IN PV.
@8119310@		RF UNABLE TO READ A FILE HEADER INTO MEMORY.
@8153550@		BAD PSEUDO READER CHAIN.
@8320330@		NO DISK AVAILABLE FOR AVAILABLE TABLE.
@8275460@		WFL FAILED TO BE SCHEDULED UPON AN MCP REQUEST
@8275580@		A COMMAND TO WFL COULD NOT BE SUCCESSFULLY EN
@8348500@		ODT OR ODX NAME TABLE ENTRY IS EMPTY.
@8352450@		SEARCH_EQUALS FAILED IN TH.
@8526200@		ACTIVE TASK NOT IN MIX OR SCHEDULE.
@8540770@		OVERFLOWED A TASK VARIABLE.
@8569100@		DISK ADDRESS IN TASK VARIABLE TABLE EQUALS ZER
@8570000@		TASK NUMBER IN COMMUNICATE DOES NOT MATCH TASK NUMBER ON DISK.
@8574200@		DISK ADDRESS IN TASK VARIABLE TABLE EQUALS ZERO.
@8722600@		JOB TASK NOT IN MIX.
@8724800@		DISK ADDRESS IN TASK NUMBER TABLE EQUALS ZERO.
@8725100@		QUERY OF ACTIVE SUBTASK.
@8726900@		TASK NUMBER IN COMMUNICATE DOES NOT MATCH THE TASK VARIABLE THAT WAS FOUND BY TASKING ROUTINES.
@8741700@		TASK VARIABLE MIX NUMBER IS FOR NON-EXISTANT JOB.
@8745300@		DISK ADDRESS IN TASK VARIABLE TABLE EQUALS ZERO.
@8760600@		DISK ADDRESS IN TASK VARIABLE TABLE EQUALS ZERO.
@8760900@		TASK NUMBER IN COMMUNICATE DOES NOT MATCH TASK NUMBER ON DISK.
@8784560@	*	BAD TITLE IN WFL-GENERATED DATA DECK.
@8803000@		WFL JOB HAD A NULL TASK_VARIABLE ADDRESS
@9074050@		WHEN COPYING THE CODE DICTIONARY FOR THE ACCESSROUTINES OF A DMS JOB CLOSING A DATABASE, AN INCORRECT CONDITION WAS FOUND.
@9074200@		WHEN WRITING THE PAGE DICTIONARY FOR THE ACCESSROUTINES OF A DMS JOB CLOSING A DATABASE, THE JOB WAS FOUND TO BE ROLLED OUT.
@9074600@		WHEN WRITING THE PAGE DICTIONARY FOR THE ACCESSROUTINES OF A DMS JOB CLOSING A DATABASE, CORRUPTION WAS FOUND IN THE ESN OR CODE DICTIONARY.
@9130800@		ZERO PORT-CHANNEL ON A DMS I/O.

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@9131302    '    BAD UNIT HARDWARE ON A DMS I/O.
@9137103         INCOMPLETE DMS WRITE.
@9137202         INCOMPLETE DMS WRITE WITH EXCEPTION.
@9145202         INCOMPLETE DMS READ.
@9145303         INCOMPLETE DMS READ WITH EXCEPTION.
@9167343         WHEN OPENING A DMS DATABASE FOR ITS FIRST USER, THERE
                 IS NO SPACE IN THE AUDIT BUFFER FOR THE DATABASE-OPEN
                 AUDIT ENTRY.
@9174423         AN OPEN OR CLOSE OF A DMS AUDIT FILE WAS ATTEMPTED
                 FOR A NON-DMS JOB.
@9192903         WHEN OPENING A NEW AREA FOR A DMS AUDIT FILE, THE
                 BLOCKS-PER-AREA COUNT WAS GREATER THAN ONE.
@9211323         ALTHOUGH THE DMS AUDIT FILE STATUS IS OK, THE AUDIT
                 FILE IS NOT OPEN.
@9234903         THERE HAS BEEN A FAILURE WHEN COPYING THE CODE
                 DICTIONARY FOR A DMS JOB CLOSING A DATABASE.
@9239503         WHEN CLOSING A DMS DATABASE THE DMS GLOBALS WERE
                 MISSING FROM THE DMS GLOBALS CHAIN.
@9242003         THERE WAS A FAILURE IN CLOSING THE DMS ENVIRONMENT
                 OF A JOB DOING A DATABASE CLOSE.
@9245103         WHEN ABORTING A DMS JOB DURING DATABASE OPEN AN
                 IMPOSSIBLE CONDITION WAS ENCOUNTERED.
@9248303         NO DATABASE GLOBALS ARE ALLOCATED FOR AN ABORTING
                 DMS JOB WITH AN INCOMPLETELY OPEN DATABASE.
@9267303         BAD MEMORY LINK ENCOUNTERED WHEN RELEASING A DMS
                 BUFFER.
@9273633         A DMS FATALERROR OCCURED ON A DATABASE THAT
                 AUDITED TO TAPE.
@9278783         WHEN CLOSING A DMS DATABASE DUE TO A FATALERROR
                 THE DISK AUDIT FILE COULD NOT BE CLOSED.
@9311403    *    THE DMS ACCESSROUTINES GAVE A BAD UPDATE-HEADER
                 COMMUNICATE.
@9419053         A DATA INCONSISTENCY HAS OCCURED DURING DMS
                 DEADLOCK ANALYSIS.
@9447613         NO USER ENVIRONMENT EXISTS FOR A JOB OPENING A
                 DMS DATABASE.
@9462503         NO DISK FILE HEADER EXISTS IN MEMORY FOR AN
                 UPDATED DMS DATAFILE BEING CLOSED.
@9535803         WHEN BINDING DMS DASDL-GENERATED CODE INTO THE
                 ACCESSROUTINES AT DATABASE OPEN, CORRUPTION WAS
                 FOUND IN MEMORY OR THE DICTIONARY.
@9726203         TRIED TO SWITCH TO A NON-EXISTENT ENVIRONMENT.
@9818403         INCORRECT INTERPRETER ALLOCATION WHEN INTERACTIVE
                 DEBUGGER IS ADOPTING A JOB.
@9819403         INCORRECT INTERPRETER ALLOCATION WHEN INTERACTIVE
                 DEBUGGER IS ADOPTING A JOB.
@9833303         WHEN SWITCHING INTERPRETERS DURING JOB ADOPTION,
                 THE OLD INTERPRETER COULD NOT BE FOUND.
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