Maintenance Panel Error Code Summary for Xerox 1108 Interlisp-D

There are two types of maintenance panel codes: progress codes and
error codes. Progress codes are placed in the Maintenance Panel at various
stages of initialization. Error codes are traps which freeze or blink the
error number in the maintenance panel. They are all fatal errors.

0000-0499 boot-time diagnostics
0500-0699 IOP code
0700-0899 Pilot microcode
0900-0999 Pilot
1000-6999 tech-rep diagnostics
7000-8887 Star
8888-8888 MP lamp test
9000-9999 Lisp

0096 Insufficient real memory (<1MByte) for lisp

0200-0299 Booting phase 2 (Initial microcode)

0200 normal booting phase 2
0201 CP error in reading from boot device
0202 null Mesa germ installed in physical volume
0203 broken rigid disk boot chain (possibly intermitant)
0204 Illegal IOP port command
0205 CP Trap (CS parity or double-bit memory error)
0206 null diagnostic microcode in physical volume
0207 null Pilot/Mesa emulator microcode in physical volume
0208   null Mesa germ installed in physical volume

0500-0502 Domino progress codes

0500   StartDomino   Domino has started
0501   InitReadTOD   Domino starting to read the TOD clock
0502   InitReadTODdone   Reading of TOD clock completed
          (next MP number from Lisp)
0505-0599 Domino error codes

0505   CSParity   CS parity error detected
0506   BurdockCPDisabled   Burdock attempted to use EtherKludge
0507   CPBurdockDisabled   CP attempted to use EtherKludge
0508   IOPBreak   An IOP break with no IOP kernel
0509   IllegalIOPIntr   Illegal IOP interrupt
0510   BadMapEntry   Incorrect vm Map entry in IOP access.
0511   NoCPDmaComplete   CP Dma operation failed to complete
0512   NoCPDmaChannel   CP Dma channel not specified
0513   ReadCPPortDead   CP not responding to Read CPPort
0514   WriteCPPortDead   CP not responding to Write CPPort
0520   StackOverflow   A task's stack has overflowed
0565   InvToneCmd   Invalid keyboard tone generator comnd
0570   InvProcCmd   Invalid cmd value in Processor CSB
0571   UnImplCmd   Unimplemented cmd in Processor CSB
0572   SetTODError   The Time-Of-Day could not be set
0576   LSEPCtlOVR   LSEP Control CSB overrun
0580   NoValidCommand   Invalid floppy IOCB command
0581   UnImplFloppyCmd   Unimplemented floppy IOCB cmd
0582   InvalidEscapeCmd   Invalid Escape floppy cmd
0583   CommandTrack   Floppy track register is not correct
0584   TrackToBig   Floppy track number is too large
0585   BadDmaChannel   Couldn't program Floppy Dma
0586   NoDmaEndCount1   External Dma End Count not set
0587   NoDmaEndCount2   Internal Dma End Count not
set e8(0,4704)(1,9760)

9000-9299 DLion lisp microcode error detected

9001 Control store parity error
9004 Attempt to reference virtual address >22 bits

9005 double bit memory error or non-existant memory reference

```
9001      CSParErr Control store parity error
9002      StackErr hardware stack overflow
9003      IBEmptyErr instruction fetch unit empty error
9004      VirtAddrErr Attempt to reference virtual address >22 bits
9005      EmuMemErr double bit memory error or non-existent memory
9013      NegPcError      inconsistent PC at FnCall
9014      applyUfn        arg to apply not integer
9016      notFreeTrap       stack allocation error
9051      BadUfnTable
9120      MiscErr       opcode no such register
9121      MiscErr       opcode bad 2nd byte
9136      CycleMask       bad caller
9129      M1Loc microcode error
9130      M2Loc microcode error
9131      M3Loc microcode error
9048      ReFOvr page fault under page fault
9049      Ghost context switch
9127      PcNegError       inconsistent PC at Punt
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9300-9399 Lisp error calling \MP.ERROR

```
9301      \MP.NORPT   "No space for Real Page Table"
9302      \MP.INVALIDVMEM
9303      \MP.IOCBPAGE   "No place for IOCB page at startup"
9304      \MP.MOB   "Map out of bounds"
9305      \MP.INVALIDADDR
9306      \MP.INVALIDVP
9307      \MP.CHAIN.UNAVAIL   "Unavailable page on real page chain"
9308      \MP.SELECTLOOP   "Loop in \SELECTREALPAGE"
9309      \MP.NEWPAGE   "Attempt to allocate already existing page"
9310      \MP.NEWMAPPAGE   "\DONEWPAGE failed to allocate new map page"
9311      \MP.BADLOCKED   "Locked page occupies a file page needed to lock
another"
9312      \MP.CLOCK0   "Arg to CLOCK0 not an integer box"
9313      \MP.RESIDENT   "Fault on resident page"
9314      \MP.STACKFAULT   "Fault on stack"
9315      \MP.INVALIDVMEM   "Vmem inconsistent at startup"
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9400-9899 unassigned

9900-9999 Attempt to call Raid or Alto O.S. (BCPL Subr)

```
9900      \uCodeCheck
9901      was\StackOverflow
9902      \NWWInterrupt
9903      was\PageFault NIL
9904      \StatsOverflow
9905      NOOPSUBR
9906      \BACKGROUNDSUBR
9907      \CHECKBCPLPASSWORD
9908      DISKPARTITION NIL
9909      DSPBOUT (CHARCODE)
9910      \DSPRATE (PARM)
9911      \GATHERSTATS (FID)
9912      \GETPACKETBUFFER NIL
9913      \LISPFINISH
9914      \MOREVMEMFILE (FILEPAGE)
9915      RAID (MESS1 MESS2 FLG)
9916      \READRAWPBI NIL
9917      \WRITERAWPBI (PBI)
9918      SETSCREENCOLOR (FLG)
9919      SHOWDISPLAY (BASE RASTERWIDTH)
9920      \PUPLEVEL1STATE (FLG)
9921      \WRITESTATS (TYPE X1 X2 X3 X4 X5 X6 X7 X8 X9 X10)
9922      \CONTEXTSWITCH
9923      \COPYSYS0SUBR (FID)
```

```
9924      \WRITEMAP (VP RP FLAGS)
 (635)
```