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Mauna Loa Solar Observatory Observer's Log
 ______
       Mon Sep 24 16:36:03 GMT 2007
Year: 07 Doy: 267
Observer: yasukawa
WEATHER COMMENT: Mon Sep 24 16:36:22 GMT 2007
In broken cirrostratus, S wind 12 mph, temp 47 F.
___end
Mon Sep 24 16:41:54 GMT 2007
                              CHTP
                                       Start Patrol
Mon Sep 24 16:41:59 GMT 2007
                              PICS
                                       Start Patrol
PSPT COMMENT: Mon Sep 24 16:43:02 GMT 2007
Starting up.
end
MKIV COMMENT: Mon Sep 24 16:48:34 GMT 2007
Ted Benning of Solution Systems Technologies emailed instructions to get
KCC processor that was repaired to boot up. I'll try that later on today.
end
PSPT COMMENT: Mon Sep 24 16:51:58 GMT 2007
Observing.
____end___
Mon Sep 24 16:56:32 GMT 2007
                              MKIV
                                      Start Patrol
MKIV COMMENT: Mon Sep 24 17:03:36 GMT 2007
MK4 has cleared dome cylinder.
end
Mon Sep 24 17:26:15 GMT 2007
                              MKIV
                                      End Patrol
MKIV COMMENT: Mon Sep 24 17:25:59 GMT 2007
Stopping to swap MVME 162-023 processor boards in the KCC.
MKIV COMMENT: Mon Sep 24 17:26:51 GMT 2007
Turning off KCC.
end
Mon Sep 24 18:00:44 GMT 2007
                              CHIP
                                       LSD
Mon Sep 24 18:01:16 GMT 2007
                              PICS
                                       Flat
Mon Sep 24 18:02:30 GMT 2007
                              CHIP
                                       End LSD
Mon Sep 24 18:02:38 GMT 2007
                              CHIP
                                       BiasLSD
Mon Sep 24 18:03:31 GMT 2007
                              CHIP
                                       End BiasLSD
Mon Sep 24 18:03:34 GMT 2007
                              PICS
                                       End Flat
Mon Sep 24 18:03:42 GMT 2007
                              CHIP
                                       Bias
Mon Sep 24 18:03:45 GMT 2007
                              PICS
                                       ReStart Patrol
Mon Sep 24 18:04:38 GMT 2007
                              CHIP
                                       End Bias
Mon Sep 24 18:04:45 GMT 2007
                              CHIP
                                       ReStart Patrol
**MKIV PROBLEM**: Mon Sep 24 18:03:55 GMT 2007
Tried instructions from Ted. Board did not boot up. I get the feeling that
it needs to be told where the boot instructions, specific to the KCC, are
located. Swapped the in-service board back in.
Resuming obs.
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end

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**MKIV PROBLEM**: Mon Sep 24 18:08:51 GMT 2007
Ah phooey! KCC monitor won't come up with the normal KCC processor
and error messages indicate DQ board problem.
MVME162 board was not seated all the way. Retaining screws were not
engaged as I was swapping boards. Tightened screws and boards
resumed talking to each other.
 end
WEATHER COMMENT: Mon Sep 24 18:21:39 GMT 2007
In thicker cirrostratus overcast.
 end
**MKIV PROBLEM**: Mon Sep 24 18:23:46 GMT 2007
According to Ted at SST, once I set the clock and the environment to autoboot
as I did once, the board will keep that info when powered down (removed).
The jumper at J22 pins 9-10 can be removed so the board can boot up.
Jumper sets the board into BUG mode and it cannot boot up in that mode.
Replace jumper to go back into BUG mode.
Board was sent back in factory default condition according to Ted so
if there was any in-house code on the timekeeper/ram chip, that chip was
replaced by them which may be why I cannot boot our application at this time.
GONG COMMENT: Mon Sep 24 18:41:49 GMT 2007
Going down to GONG to do weekly PM while in cirrostratus.
end
Mon Sep 24 19:00:47 GMT 2007
                               MKIV
                                       Start Cal
WEATHER COMMENT: Mon Sep 24 19:00:54 GMT 2007
Clear hole.
end
GONG COMMENT: Mon Sep 24 19:01:03 GMT 2007
Back from GONG.
end
Mon Sep 24 19:18:45 GMT 2007
                               CHIP
                                        End Patrol
Mon Sep 24 19:19:29 GMT 2007
                                        End Cal
COMMENT: Mon Sep 24 19:19:24 GMT 2007
Stopping to reconfigure dome shutter.
end
Mon Sep 24 19:19:27 GMT 2007
                               PICS
                                        End Patrol
Mon Sep 24 19:24:35 GMT 2007
                               MKIV
                                        Start Patrol
Mon Sep 24 19:24:49 GMT 2007
                               CHIP
                                        Start Patrol
Mon Sep 24 19:25:01 GMT 2007
                               PICS
                                         Start Patrol
MKIV COMMENT: Mon Sep 24 19:35:01 GMT 2007
Pausing while in cirrostratus.
**MKIV PROBLEM**: Mon Sep 24 20:00:12 GMT 2007
Data transfer failures for 4 scans. Checking it out.
Mon Sep 24 20:12:14 GMT 2007
                               MKIV
                                       End Patrol
Mon Sep 24 20:14:50 GMT 2007
                               MKIV
                                       Start Patrol
**MKIV PROBLEM**: Mon Sep 24 20:21:44 GMT 2007
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Data Xfer failures stopped after doing a Pau/Run cycle on the console.
end
MKIV COMMENT: Mon Sep 24 20:32:11 GMT 2007
Stopping to compare jumpers on MVME162 boards again.
Mon Sep 24 20:32:46 GMT 2007
                               MKIV
                                       End Patrol
**MKIV PROBLEM**: Mon Sep 24 21:28:55 GMT 2007
Jumpers were same except for BUG jumper on J22. Removed it and swapped
replacement board into KCC. Found Allen's instructions for vxWorks and
the parameter settings for the KCC. Edited the parameters according to
Allen's document and tried boot. Got thru the parameter print-out,
attaching network interface ei0, attaching network interface lo0, and
got to Loading... and there's where the boot stalls.
Progress, bu not fixed yet.
end
**MKIV PROBLEM**: Mon Sep 24 21:40:40 GMT 2007
Reinstalled in-service board and checking parameters on it against what
Allen has written down.
end
Mon Sep 24 22:03:17 GMT 2007
                               MKIV
                                       Start Patrol
Mon Sep 24 22:09:38 GMT 2007
                               MKIV
                                       End Patrol
MKIV COMMENT: Mon Sep 24 22:06:49 GMT 2007
After I replaced the in-service board with the replacement again, the boot
parameters were back at the default goblygook. I re-entered the MLSO
parameters and the board bootd up. Might have mis-typed something the first
time or something may have gotten messed up when I was trying to understand
some of the parameters that were not on Allen's list -- they were eventually
cleared and left blank.
Ran a Patrol loop to test things out.
Rebooting KCC again to confirm that things are working.
 end
**MKIV PROBLEM**: Mon Sep 24 22:12:11 GMT 2007
Powered off KCC to reboot. Boot parameters did not "stick"!
Got back to the default stuff, did not boot.
WEATHER COMMENT: Mon Sep 24 22:25:39 GMT 2007
In borken orographic clouds.
____end
MKIV COMMENT: Mon Sep 24 22:26:30 GMT 2007
Reboot after re-entering parameters worked. Powering down again to test
boot volatility.
end
Mon Sep 24 23:11:28 GMT 2007
                               CHIP
                                        End Patrol
Mon Sep 24 23:11:36 GMT 2007
                               PICS
                                        End Patrol
WEATHER COMMENT: Mon Sep 24 23:12:03 GMT 2007
In orographic clouds. Testing KCC and shutting down.
end
**MKIV PROBLEM**: Mon Sep 24 23:12:35 GMT 2007
```

The boot parameters have to be saved in the NVRAM. We will need to figure out which ENV parameter on the replacement board needs to be changed in order to save the boot parameters. Left Allen instructions to do that tomorow. Reinstalled in-service board and checked it out before shutting MK4 down for the day. This will allow Allen to get some data before proceeding with the swap tasks.

KCC came up OK with the in-service board. Replacement board is in box on Allen's desk.

16_56.rawmk4	17_14.rawmk4	19_16.rawmk4	20_14.rawmk4	22_03.rawmk4
16_59.rawmk4	17_17.rawmk4	19_24.rawmk4	20_17.rawmk4	22_06.rawmk4
17_02.rawmk4	17_20.rawmk4	19_27.rawmk4	20_20.rawmk4	c19_00.rawmk4
17_05.rawmk4	17_23.rawmk4	19_30.rawmk4	20_23.rawmk4	c19_06.rawmk4
17_08.rawmk4	19_03.rawmk4	19_33.rawmk4	20_26.rawmk4	c19_13.rawmk4
17_11.rawmk4	19_09.rawmk4	20_09.rawmk4	20_29.rawmk4	