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Mauna Loa Solar Observatory Observer's Log
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       Wed May 6 16:42:38 GMT 2009
Year: 09 Doy: 126
Observer: koon
WEATHER COMMENT: Wed May 6 16:42:41 GMT 2009
Clear sky, wind=5mph from the South, temp=42F.
  end
**MKIV PROBLEM**: Wed May 6 16:51:38 GMT 2009
The old MV200 board has the 2 small interface boards from the spare MV200
installed, upon startup there wasn't a stall with the intro words coming
inward from the corners of the GUI monitor like I see when I try to restart
the KCC after the initial startup with this board configuration. The only
difference in startup procedure is that the akamai window with the VXWorks
messages doesn't come up upon initial startup until after I type in "Run"
in the console window. So after the GUI screen starts up normally I type
in Run and the 2nd akamai window appears and shows a message like
"t-barrel glitch", the barrel turns all the way CW and stops at the CW limit,
the GUI cursor gets increasingly slower to react to mouse movement and then
the cursor won't move at all when the barrel is at the CW limit. I cycled
the main KCC power but that takes me to the other mode of stalling with this
board configuration, the GUI monitor is frozen with those words coming in diagonally
and last akamai window message is hello from t barrel.
 end
Wed May 6 17:03:25 GMT 2009
       MkIV
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              Mauna Loa Solar Observatory Observer's Log
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       Wed May 6 17:07:05 GMT 2009
Year: 09 Doy: 126
Observer: koon
**MKIV PROBLEM**: Wed May 6 17:08:17 GMT 2009
I tried shutting down mk4 completely like at the end of the day, then I
started up again like at the beginning of the day, but this time the GUI
froze with those words an inch from the corners of the monitor and I
didn't get as far as the first starup today, I don't understand why. After
typing in the "run" command I got the 2nd akamai window but it didn't
startup VXWorks like usual. I cycled the lower KCC power switch and VXWorks
starts up in the akamai window but still stops at "hello from t barrel"
like usual with this MV200 board configuration (lately).
end
PSPT COMMENT: Wed May 6 17:13:56 GMT 2009
obs
end
Wed May 6 17:14:58 GMT 2009
                            CHIP
                                     Start Patrol
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Wed May 6 17:15:38 GMT 2009 PICS Start Patrol Wed May 6 18:00:28 GMT 2009 CHIP LSD Wed May 6 18:01:30 GMT 2009 PICS Flat Wed May 6 18:01:48 GMT 2009 End LSD CHIP Wed May 6 18:01:56 GMT 2009 BiasLSD CHIP Wed May 6 18:02:42 GMT 2009 CHIP End BiasLSD Wed May 6 18:02:48 GMT 2009 CHIP Bias Wed May 6 18:03:28 GMT 2009 CHIP End Bias Wed May 6 18:03:33 GMT 2009 ReStart Patrol CHIP Wed May 6 18:04:00 GMT 2009 PICS End Flat Wed May 6 18:04:05 GMT 2009 PICS ReStart Patrol Wed May 6 21:36:50 GMT 2009 Start Patrol MKIV Wed May 6 22:09:18 GMT 2009 Start Patrol MKIV Wed May 6 22:18:47 GMT 2009 CHIP End Patrol **MKIV PROBLEM**: Wed May 6 21:41:50 GMT 2009 Alice changed the t barrel routine, she enabled debug_barrel. I cycled KCC lower power with the old MV200 board in place containing the IO boards from the spare MV200 board, no change, stalls in same place as mentioned above. I put the old IO boards back in the old MV200 board and cycled lower KCC power switch, the VXWorks startup program got to "hello from t_barrel" and stalled a while, that's new for this configuration, then it continued with this new output: value = 3835732 = 0x3a8754taskDelay(100) setBarrell -184.000000 setBarrel 12463 angle and old angle -184.000000 273.849518 dir and sign 9 -1.000000 then when I ran Patrol it went CCW to the limit like usual for this board configuration. That's when the VXWorks startup program started and the barrel was at the CCW limit of 274, but when I tried the same thing with the barrel starting around 180 degrees then there were hundreds of messages like setBarrel 3500 scrolling down the akamai window until the barrel drove CW to the limit at back to about 180. So I drove the barrel to the normal daily startup location of 0 degrees and cycled KCC lower power switch again, it displayed: value = 3835732 = 0x3a8754TaskDelay(100) setBarrel -184.000000 setBarrel 31 angle and old angle -184.000000 0.681163 dir and sign 9 -1.000000 Again running Patrol moved the barrel to the CCW limit and stalled without any data going to realtime display, it may have displayed this new message in the akamai window: setBarrel -184.000000 end WEATHER COMMENT: Wed May 6 22:19:36 GMT 2009 Low clouds are moving in, spar not tracking, paused instruments. ____end_

Wed May 6 22:20:22 GMT 2009 PICS End Patrol NICE PICSLIMB IMAGE: 1736 NICE PICSDISC IMAGE: 1736 IMAGE: 1733 NICE CHIP Wed May 6 22:33:24 GMT 2009 Start Patrol MKIV Thu May 7 00:30:14 GMT 2009 Start Patrol MKIV **MKIV PROBLEM**: Thu May 7 00:17:21 GMT 2009 Had a long talk with David about how to look for data with VXWorks and a few other things, will try that later, right now continuing with testing related to Alice's program change, this time with the spare MV200 board setup with its IO module boards. Upon startup got these messages near the end of the startup script on akamai: setBarrel -184.000000 setBarrel 2 angle and old angle -184.000000 0.043946 dir and sign 9 -1.000000 Started with barrel at normal start of day position around 0 degrees, results look similar to other MV200 results except the 2nd setBarrel is 2 instead of a larger number like 31, when I asked David why there were 2 setBarrel commands shown he said that seemed strange, so there is a place to investigate later. On to data signals, when testing using commands "printfetch" and "balance 0" and "balance 1" in the akamai window with the old MV200 board the printed and plotted numbers looked noisy, they should look like lines or be more consistent and relatively low values instead of 65000 and 0, etc. Use CTRL-C to exit the balance command. With the spare MV200 board in place the printfetch values varied from 54 to 151, that is better; but the Balance related plots still looked like noise with plotted dots all over the place. I'll continue with this on Friday. end Thu May 7 00:55:22 GMT 2009 MKTV Start Patrol Thu May 7 01:19:44 GMT 2009 MkIV 00 30.rawmk4 00 34.rawmk4 00 39.rawmk4 00 44.rawmk4 00 55.rawmk4 00 31.rawmk4 00 36.rawmk4 00 41.rawmk4 00 46.rawmk4 00 56.rawmk4 00 33.rawmk4 00 38.rawmk4 00 43.rawmk4 00 48.rawmk4