
Mauna Loa Solar Observatory Observer's Log

Wed Jul 11 16:40:15 GMT 2007

Year: 07 Doy: 192

Observer: yasukawa

WEATHER COMMENT: Wed Jul 11 16:40:44 GMT 2007

In broken altocumulus overcast, SE wind 25-30 mph, temp 45 F.

____end____

****MKIV PROBLEM****: Wed Jul 11 16:41:47 GMT 2007

Original log entries were curiously lost. Did a Pau/Run and logs are now (for now)working.

____end____

****MKIV PROBLEM****: Wed Jul 11 16:42:58 GMT 2007

When original Run was run, barrel was at CCW limit, ~274, and started rotating CW, thru normal scan sector, and to CW limit. Barrel angle readout displayed properly, KCC status indicator LED indicating correctly. GUI displayed rotation for a few degrees then stopped communicating with akamai. Right and left buttons on mouse unresponsive on command buttons but cursor does move. Display dims after a while, but mouse move does resume normal brightness. Problem is still with us.

____end____

PICS COMMENT: Wed Jul 11 16:48:43 GMT 2007

PICS started before I noticed logs were missing.

____end____

CHIP COMMENT: Wed Jul 11 16:49:17 GMT 2007

Ditto CHIP

____end____

PSPT COMMENT: Wed Jul 11 16:49:27 GMT 2007

Ditto PSPT startup.

____end____

****PSPT PROBLEM****: Wed Jul 11 16:51:19 GMT 2007

The menehunes are active today. PSPT crashed after homing guider during startup. Killed and restarted.

____end____

PSPT COMMENT: Wed Jul 11 17:03:30 GMT 2007

Observing

____end____

****MKIV PROBLEM****: Wed Jul 11 17:04:42 GMT 2007

Regarding logs loss..... I don't recall seeing the original startup (Run) dialog on the akamai window. When I did notice the window, there was only "connected" at the top. Normally, there would be lines of commands and status lines population all the rows and last entry would be on the bottom. When I cycled power to KCC, The "normal" initialization dialog, including multiple lines of "CW Limit" scrolled thru the window. Dialogue ended with same error messages noted in yesterday's logs.

Barrel, which was sitting on CW limit ran to CCW limit. Gui displayed few degrees of motion before "freezing" again. Mouse cursor still active.

___end___

Wed Jul 11 17:29:15 GMT 2007 CHIP End Patrol

Wed Jul 11 17:29:25 GMT 2007 PICS End Patrol

WEATHER COMMENT: Wed Jul 11 17:29:33 GMT 2007

Overcast thick, guiding poor. Standing down on obs for now.

___end___

MKIV PROBLEM : Wed Jul 11 18:52:39 GMT 2007

Startup script on akamai shows several entries indicating possible hardware problems, David will comment out some of the software and we will try rebooting and looking for more specific messages.

___end___

Wed Jul 11 21:35:32 GMT 2007 MKIV Start Patrol

Wed Jul 11 22:01:05 GMT 2007 CHIP Start Patrol

Wed Jul 11 22:01:20 GMT 2007 PICS Start Patrol

MKIV PROBLEM : Wed Jul 11 22:02:35 GMT 2007

Stopped troubleshooting effort for today, synopsis to follow.

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WEATHER COMMENT: Wed Jul 11 22:03:06 GMT 2007

Sky clear of most altocumulus. Resuming PICS, CHIP and PSPT obs.

___end___

MKIV PROBLEM : Wed Jul 11 22:39:03 GMT 2007

David and I spent all morning troubleshooting over the phone. Initially, he could not log into akamai but we tried a bunch of stuff, mostly rebooting with variations of the scripts to determine where the failures were occurring. Other things tried were swapping ethernet cables (interface was swapped yesterday)--no change, and swapping processor board with the problematic MCC processor board that Allen removed in June--couldn't boot with it, needs software changes. We managed to get to different places in the boot process, and as far as getting the barrel to rotate to it's initial 180 with the gui display tracking the barrel angle. We managed to select Patrol on the gui (also could swap between VCP and Ops GUI displays) but Patrol crashed before it started up because KCC couldn't swap between reading the mech program and the data program. At around that point, David managed to log into KCC but got locked out when program crashed. We went down many branched paths due to the variety of crash flavors we encountered and had to discipline ourselves to return to the main problem. We also checked the lithium battery on the board to determine if a clock problem wasn't the cause. The battery is soldered onto the board so an easy swap with the MCC processor's battery wasn't attempted. Instead, I checked the voltages and they were the same on both batteries, 3.4 V.

We believe that there is a hardware problem causing the boot to fail. We believe the ethernet problem is due to that failure and not due to an ethernet problem or the cause of the failure.

For tomorrow, the plan is for David to pack and ship their spare

Max Video 200 board to swap with the one in the KCC. We will need to verify the strapping on the spare with the KCC one before making the swap. The Max Video 200 is the board referred to mv200 and dq (Datacube) in the boot dialog.

Allen will use his RS-232 breakout box and the laptop to change the parameters on the "broken" MCC processor to conform with the KCC processor parameters-- chief problem are the IPs, 18 -> 16 and 12 -> 11, but there might be other differences. Verify strapping, then swap and try to boot. Hopefully, the processors original problem won't affect the boot and will not surface at least until after Patrol starts up and runs for a bit.

____end____

NICE PICSLIMB IMAGE: 2211

NICE PICSDISC IMAGE: 2210

NICE CHIP IMAGE: 2210

Wed Jul 11 23:40:20 GMT 2007 MKIV End Patrol

WEATHER COMMENT: Thu Jul 12 00:29:09 GMT 2007

In cirrocumulus overcast.

____end____

PSPT PROBLEM: Thu Jul 12 00:42:00 GMT 2007

Crash at 0032 UT, k/r.

____end____

Thu Jul 12 01:05:35 GMT 2007 CHIP End Patrol

Thu Jul 12 01:14:52 GMT 2007 PICS End Patrol

WEATHER COMMENT: Thu Jul 12 01:16:17 GMT 2007

____end____

MKIV PROBLEM: Thu Jul 12 01:20:10 GMT 2007

Located connection between alakai (MCC) and nene. Electrical top level interconnect diagrams in the PICS and CHIP binders indicate a connection to kii but that has changed, connection is now to nene. I noted the changes on the documents. For boot comparison between akamai and akamai, we can now open an alakai terminal on nene. Right click on desktop to open Workspace menu, right click Programs, select alakai from the menu.

We may be able to change parameters from there, too.

Connection is from MCC Ser2 on the back of the MCC over to Serial A on the rear of nene.

____end____

MKIV PROBLEM: Thu Jul 12 01:44:11 GMT 2007

Checked kii workspace menu, there is an alakai entry on the programs menu but selecting it flashes a window which goes away in a blink--no connection to alakai exists on kii.

____end____

Thu Jul 12 02:05:59 GMT 2007

MkIV