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Mauna Loa Solar Observatory Observer's Log
   ______
       Tue Jul 10 16:38:24 GMT 2007
Year: 07 Doy: 191
Observer: koon
Tue Jul 10 16:45:26 GMT 2007
                              CHIP
                                       Start Patrol
Tue Jul 10 16:45:40 GMT 2007
                             PICS
                                       Start Patrol
WEATHER COMMENT: Tue Jul 10 16:38:30 GMT 2007
Hazy sky, wind=20 mph from the South, temp=43F.
end
PSPT COMMENT: Tue Jul 10 16:54:48 GMT 2007
Obs.
end
**MKIV PROBLEM**: Tue Jul 10 16:54:55 GMT 2007
Barrel at limit, not starting correctly.
  end
**MKIV PROBLEM**: Tue Jul 10 17:31:52 GMT 2007
Tried cycling main power to KCC several times, each time the barrel goes from
one limit around to the other and stops. The red barrel angle LED readout
seems to show the correct barrel position and direction of movement as the
barrel rotates, but the GUI radar-like display shows the barrel staying
still at the CCW or CW limit (varies every time back and forth). The barrel
is indeed turning both ways and stopping. The Drive, Request, CW limit, and
CCW limit green LEDs are all working properly. I can't get the GUI to change
to the display that allows me to manually control the barrel, and I can't
"Begin Day" or "Patrol" on the other default GUI display. The akamai
window shows repeated messages about the CW or CCW limit that the barrel
starts out at, I'll shows the last lines in the akamai window below:
CCW Limit
CCW Limit
value = 0 = 0 \times 0
flcStart
value = 0 = 0 \times 0
vsync
dqSetTiminqSwitch( 0x00000000(INVALID OBJECT), ?? ?00005615?, 1 )
dqSetTiminqSwitch(): Not an IP device handle
dqSetTimingSwitch(): Fatal error
Done executing startup script /opt/alakai/mech
end
Tue Jul 10 17:52:54 GMT 2007
                                       End Patrol
                              CHIP
Tue Jul 10 17:53:15 GMT 2007
                              PICS
                                       End Patrol
**MKIV PROBLEM**: Tue Jul 10 19:09:32 GMT 2007
I tried several more attempts to get Nahenahe to communicate with akamai
without success, I even rebooted Nahenahe. I don't get a reply when I
try to "ping" akamai.
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____end

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Tue Jul 10 19:37:10 GMT 2007
                               CHIP
                                         Start Patrol
Tue Jul 10 19:37:37 GMT 2007
                               PICS
                                         Start Patrol
**MKIV PROBLEM**: Tue Jul 10 19:41:33 GMT 2007
After the last attempt at starting the barrel was left at the CW limit, I
had typed in "run" while the barrel was running but that didn't seem to help.
The startup script didn't run. I checked Ethernet connections and all appeared
OK between akamai and the router, but I couldn't ping akamai from Nahenahe
or Nene or Kii. I tried the reset button on KCC and that got the startup
script running, I tried pinging akamai and it worked, for a while, after the
barrel started moving I couldn't ping akamai again, and the GUI display
didn't show rotation - same symptoms as before. Are communications between
Nahenahe and Akamai flaky?
  end
**MKIV PROBLEM**: Tue Jul 10 19:52:40 GMT 2007
Tried resetting the KCC via reset button again, this time while the barrel was rotating instead of sitting on a limit swit
ch, same things happened
the startup script ran, I could ping akamai for a while until the startup
script ended with the same message I recorded in the log earlier, only
difference this time was the lack of "CW limit" or "CCW limit" messages
on the akamai window. I noticed other error messages while the script ran,
one line ended with "IP device probe failed", then the next line was:
dqCreateSys(): Fatal error
end
A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Tue Jul 10 20:32:45 GMT 2007
WEATHER COMMENT: Tue Jul 10 20:56:49 GMT 2007
Low clouds coming in from the SE.
end
Tue Jul 10 21:02:02 GMT 2007
                               CHIP
                                         End Patrol
WEATHER COMMENT: Tue Jul 10 21:02:59 GMT 2007
It looks like it may get foggy, pausing instruments and closing domes.
end
Tue Jul 10 21:03:45 GMT 2007
                               PICS
                                         End Patrol
**MKIV PROBLEM**: Tue Jul 10 22:25:47 GMT 2007
Although similar this problem doesn't appear to be the same "bad power supply"
problem we had one year ago and 5 years before that. I checked the MP35-070
power supply several time before and during several scans and it appears
to put out the proper 5vdc and +/-15vdc. I think the keys to this problem
are the error messages I put in this log earlier and the fact that
Nahenahe can't communicate with Akamai via the ethernet after the startup
script is done. I believe Nahenahe tells Akamai what to do via the ethernet
normally at that point. The akamai window is a terminal window for the
RS-232 connection that is also shared between Nahenahe and Akamai. What
makes the ethernet connection go away? Why can't I get the Virtual Control
Panel to appear on the GUI screen?
**MKIV PROBLEM**: Tue Jul 10 22:41:41 GMT 2007
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I did another test of the ethernet connection while running the startup script, as noted before, the ethernet connection goes away right at the end of the

startup script, so just before the end but after I saw the GUI appear with the familiar radar-like scan circles I was able to get to the VCP screen by right clicking on the mouse like usual. So the inability to get the VCP screen happens when the ethernet connection goes away. That answers one question but doesn't solve the problem. I've also noticed that I can see the starts of the scans on the regular GUI screen, like a few degrees of sweep before the ethernet connection goes away and the position indicator freezes.

ethernet connection goes away and the position indicator freezes. ____end___ Tue Jul 10 23:19:11 GMT 2007 CHIP Start Patrol Tue Jul 10 23:19:26 GMT 2007 PICS Start Patrol WEATHER COMMENT: Tue Jul 10 23:19:10 GMT 2007 Clouds have mostly cleared, opened the domes, restarting instruments. end **MKIV PROBLEM**: Tue Jul 10 23:55:26 GMT 2007 I tried swapping the ethernet transceiver at the Akamai side and that didn't change anything, problem still exists. Will swap back old transceiver. end **PSPT PROBLEM**: Wed Jul 11 00:41:14 GMT 2007 Crashed, restarted. end Wed Jul 11 01:13:48 GMT 2007 CHIP End Patrol WEATHER COMMENT: Wed Jul 11 01:13:53 GMT 2007 Clouds got thick again, paused and closed domes. end Wed Jul 11 01:14:11 GMT 2007 PICS End Patrol NICE PICSLIMB IMAGE: 1719 NICE PICSDISC IMAGE: 1715 NICE CHIP IMAGE: 1715

Wed Jul 11 01:58:13 GMT 2007

MkTV