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Mauna Loa Solar Observatory Observer's Log
    ______
        Wed Jun 13 16:32:00 GMT 2012
Year: 12 Doy: 165
Observer: berkey
WEATHER COMMENT: Wed Jun 13 16:32:51 GMT 2012
clear skies, temp 37f, wind 7mph from sw
   end
Wed Jun 13 16:37:00 GMT 2012 COMP Start Patrol
Wed Jun 13 16:37:43 GMT 2012 COMP Start Patrol
Wed Jun 13 18:38:10 GMT 2012: PSPT Start Patrol
Wed Jun 13 20:14:57 GMT 2012 H-ALPHA Start Patrol
Wed Jun 13 20:15:52 GMT 2012
                               CHIP
Wed Jun 13 20:18:16 GMT 2012 COMP Start Patrol
Wed Jun 13 20:19:44 GMT 2012 COMP End Patrol
Wed Jun 13 20:23:44 GMT 2012 COMP Start Patrol
NOTE BY BEN: Wed Jun 13 20:20:01 GMT 2012
Rebuilt and reinstalled main dome tranmission this morning.
-Note when rebuilding the transmission fully removed the worm gear before trying to install or remove the spur gear. This
should make life easier.
-Transmission was relubrcated with 85W-140 found in the blue bottle in the main dome dog house.
-If the limit switch is removed, it is easier to reinstall with the spring unloaded however this will likely be the incorr
ect position if work was done with the dome closed. To fix this, disconnect motor cable; open junction box next to shutte
r motor,
jump all four colored wires (not the white ones) that lead to the limit switch [this disables the switch], now reconnect t
he cable, and drive the dome (up?) off the limit switch, disconnect cable, disconnect the two colored pairs of wires adn r
einstall
the wire nuts. This should restore full shutter functionatly.
 end
Wed Jun 13 21:16:02 GMT 2012
                               MKTV
                                       Start Cal
Wed Jun 13 21:34:43 GMT 2012
                               MKIV
                                       End Cal
NOTE BY BEN: Wed Jun 13 21:36:12 GMT 2012
some clouds
  end
Wed Jun 13 21:40:46 GMT 2012
                               MKIV
                                       Start Patrol
NOTE BY BEN: Wed Jun 13 21:42:12 GMT 2012
Power flucuations. I think we had a bad one last night since ulua and gong ops were both rebooted
  end
Wed Jun 13 22:02:15 GMT 2012
                               CHIP
                                        End Patrol
NOTE BY BEN: Wed Jun 13 22:04:03 GMT 2012
Bigger power hit
end
**MKIV PROBLEM COMMENT BY BEN**: Wed Jun 13 22:04:44 GMT 2012
Power caused akamai to reboot
  end
NOTE BY BEN: Wed Jun 13 22:05:02 GMT 2012
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I more power hit, akamai rebooted a second time

```
end
Wed Jun 13 22:05:17 GMT 2012
                                CHIP
                                         Start Patrol
Wed Jun 13 22:08:32 GMT 2012
                                MKIV
                                        Start Patrol
Wed Jun 13 22:08:33 GMT 2012
                                        Start Patrol
                                MKIV
Wed Jun 13 22:29:58 GMT 2012
                                         End Patrol
                                CHIP
GONG COMMENT BY BEN: Wed Jun 13 22:33:26 GMT 2012
Gong-ops station rebooted during the last power flucatations
end
Wed Jun 13 22:36:12 GMT 2012
                                         Start Patrol
                                CHIP
Wed Jun 13 22:41:31 GMT 2012
                                MKIV
                                        Start Patrol
Wed Jun 13 22:45:36 GMT 2012
                                CHIP
                                         End Patrol
Wed Jun 13 22:46:38 GMT 2012 COMP End Patrol
Wed Jun 13 22:47:40 GMT 2012
                                MKIV
                                        End Patrol
Wed Jun 13 22:48:31 GMT 2012 H-ALPHA End Patrol
Wed Jun 13 23:54:57 GMT 2012 COMP Start Patrol
Thu Jun 14 00:33:29 GMT 2012 COMP Start Patrol
**GENERAL PROBLEM COMMENT BY BEN**: Thu Jun 14 00:45:41 GMT 2012
Bumped main ups power button with my knee. Took a while to recover we still dont have oopu, mlsoserver and ulua back yet
  end
**GENERAL PROBLEM COMMENT BY BEN**: Thu Jun 14 01:02:22 GMT 2012
Ulua has a flashing orange power button while seems to indicate bad powersupply, will investiagte tomorrow
  end
COMP COMMENT BY BEN: Thu Jun 14 01:13:35 GMT 2012
When CoMP run recipe starts it creates a image buffer for every ingredient in that recipe. The bufferes remain in memory
until run recipe closes. Luckly for us labview doesnt allocate any memory to these buffers until they are filled.
So for mega recipes like 1079_fastdoppler.rcp with hundres of ingredidents, labview ends up using hundress*2MB of memory.
 Since this is a 32bit machine the memory space runs out at 2GB and the program crashes.
I have made a change to the working version of CoMP to just reuse the same image buffer over and over again. I am not sur
e if it is taking good/proper data since the dome is closed, but I can now pack 1000 ingredidents into a single recipe wit
hout labview
even breaking a sweat (it is only using 250mb of memory).
I will save these 2GB fts files in e:\testing\20120613 incase anyone is interesting in looking at them.
 end
Thu Jun 14 01:19:45 GMT 2012 COMP End Patrol
Thu Jun 14 01:21:12 GMT 2012
        MkIV
06 13.rawmk4
               20 36.rawmk4
                              21 00.rawmk4
                                             21 40.rawmk4
                                                            22 17.rawmk4
20_15.rawmk4
               20_39.rawmk4
                              21 03.rawmk4
                                             21_43.rawmk4
                                                            22_32.rawmk4
20 19.rawmk4
              20 42.rawmk4
                              21 06.rawmk4
                                             21 46.rawmk4
                                                            22 41.rawmk4
20 21.rawmk4
               20 45.rawmk4
                              21 09.rawmk4
                                             21 49.rawmk4
                                                            22 44.rawmk4
20_24.rawmk4
              20_48.rawmk4
                              21 12.rawmk4
                                             21_52.rawmk4
                                                            33 12.rawmk4
20 27.rawmk4
              20_51.rawmk4
                              21_19.rawmk4
                                             21 55.rawmk4
                                                            c21 16.rawmk4
                                                            c21_22.rawmk4
20 30.rawmk4
              20 54.rawmk4
                              21 25.rawmk4
                                             21 58.rawmk4
```

c21 28.rawmk4

20 33.rawmk4

20 57.rawmk4

21 31.rawmk4

22 08.rawmk4