
Mauna Loa Solar Observatory Observer's Log

Mon Sep 9 18:21:36 GMT 2013

Year: 13 Doy: 252

Observer: berkey

WEATHER COMMENT: berkey: Mon Sep 9 18:21:38 GMT 2013

Clear skies, temp 55f, wind 7mph from the east.

____end____

GENERAL OBSERVATORY COMMENT BY berkey: Mon Sep 9 18:21:50 GMT 2013

Started reinstalling ADR this morning. It sort of works, and I think I have the 3 sensors in the right place (clouds vs edge). I think it will take a few weeks to ring out exactly where they should end up.

____end____

Mon Sep 09 18:29:22 GMT 2013 COMP Start Patrol

Mon Sep 09 19:30:24 GMT 2013 K-cor computer checking in

Mon Sep 09 19:41:18 GMT 2013 KCOR Start Calibration scriptC:kcormlso-calibration.ini

Mon Sep 09 19:46:38 GMT 2013 KCOR End Calibration Script

Mon Sep 09 19:46:50 GMT 2013 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY berkey: Mon Sep 9 19:48:17 GMT 2013

Shabar is back online but for some reason the DAQ for channel 5 is doing the wrong thing, it has a very low value that increases slightly over the acquisition process then flatlines.

____end____

Mon Sep 09 19:52:08 GMT 2013 KCOR Start Synoptic Patrol

Mon Sep 09 19:59:28 GMT 2013 KCOR End Synoptic Patrol

Mon Sep 09 19:59:42 GMT 2013 KCOR Start Calibration scriptC:kcormlso-calibration.ini

**KCOR PROBLEM COMMENT BY berkey **: Mon Sep 9 20:01:18 GMT 2013

When a script was trying to run "Stop Socketcam Averaging and Stop DAQ Output.vi we caught an error.

Socketcam window says:

Acquisition has been aborted

Acquisition has been aborted

Brd1 circular acquisition error has occurred.

Brd0 circular acquisition error has occurred.

When I type quit into socketcam I get a

BufIn Error

Error In Function Bufin INTERNAL Error. An error as occurred within the working thread. Look at error stack to find error.

Message

____end____

KCOR COMMENT BY berkey: Mon Sep 9 20:04:57 GMT 2013

Rebooting Kcor incase the problem was a built up socketcam thing

____end____

Mon Sep 09 20:19:32 GMT 2013 KCOR Start Calibration scriptC\kcor\mlso-calibration.ini

KCOR COMMENT BY berkey: Mon Sep 9 20:18:32 GMT 2013

Trying another calibration after-reboot.

____end____

Mon Sep 09 20:24:30 GMT 2013 KCOR End Calibration Script

Mon Sep 09 20:24:39 GMT 2013 KCOR Start Synoptic Patrol

KCOR COMMENT BY berkey: Mon Sep 9 20:24:15 GMT 2013

After finishing a calibration (which I think worked)

I started a synoptic observation and got an:

Error-50103 occurred at K-Cor -Stop Socketcam Averaging adn Stop DAQ Output.vi

Possible reasons:

NI Platform Servcies: The specified resource is reserved. The operation could not be completed as specified.

Task Name: _unnamedTask<20>

Socketcam tasks says it is (Not Responding)

Socketcam input window shows no error message and continues to take more data.

____end____

**KCOR PROBLEM COMMENT BY berkey **: Mon Sep 9 20:29:42 GMT 2013

After clicking STOP on the error message the socket cam window said:

socketcam recv error

socketcam RecvSignalsThread ending

socketcam recv error

socketcam recv error

socketcam recv error

socketcam recv error

socketcam recv error

socketcam recv error

socketcam recv error

socketcam RecvSignalsThread ending

socketcam recv error

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socketcam RecvSignalsThread ending

socketcam recv error

socketcam recv error

socketcam RecvSignalsThread ending

socketcam RecvSignalsThread ending

Acquisition has been aborted

Acquisition has been aborted

Brd1 circular acquisition error has occurred.

Brd0 circular acquisition error has occurred.

____end____

GENERAL OBSERVATORY COMMENT BY berkey: Mon Sep 9 20:30:59 GMT 2013

reconfiguring main dome

____end____

Mon Sep 09 20:37:07 GMT 2013 KCOR Start Synoptic Patrol

Mon Sep 09 20:37:33 GMT 2013 KCOR End Synoptic Patrol
Mon Sep 09 20:41:11 GMT 2013 KCOR Start Calibration scriptC:\kcor\mlso-calibration.ini
Mon Sep 09 20:46:45 GMT 2013 KCOR End Calibration Script
Mon Sep 09 20:47:08 GMT 2013 KCOR Start Synoptic Patrol
Mon Sep 09 20:49:48 GMT 2013 KCOR Start Synoptic Patrol
Mon Sep 09 20:50:11 GMT 2013 KCOR End Synoptic Patrol
Mon Sep 09 20:50:13 GMT 2013 KCOR Start Synoptic Patrol
Mon Sep 09 20:51:39 GMT 2013 KCOR End Synoptic Patrol
Mon Sep 09 20:51:42 GMT 2013 KCOR Start Synoptic Patrol
KCOR COMMENT BY berkey: Mon Sep 9 20:50:18 GMT 2013
I didn't do a k-cor focus this morning. So far I have only been testing running various bits of the code
____end____
Mon Sep 09 20:54:07 GMT 2013 KCOR End Synoptic Patrol
Mon Sep 09 20:55:18 GMT 2013 KCOR Start Calibration scriptC:\kcor\mlso-calibration.ini
Mon Sep 09 21:00:13 GMT 2013 KCOR End Calibration Script
Mon Sep 09 21:00:23 GMT 2013 KCOR Start Calibration scriptC:\kcor\mlso-calibration.ini
Mon Sep 09 21:05:04 GMT 2013 KCOR End Calibration Script
Mon Sep 09 21:05:07 GMT 2013 KCOR Start Synoptic Patrol
Mon Sep 09 21:22:30 GMT 2013 COMP End Patrol
Mon Sep 09 21:22:31 GMT 2013 COMP Start Patrol
Mon Sep 09 22:11:43 GMT 2013 KCOR Start Synoptic Patrol
KCOR COMMENT BY berkey: Mon Sep 9 22:10:25 GMT 2013
Added a cardboard 1.5" apature above the kcor fore-optics enclosure with the goal of reducing the light down so we can run
the cameras with longer exposures. So we can test some camera/modulator timming.
One though is the camera is reading out before the modulator has time to fully respond.
____end____
Mon Sep 09 22:16:04 GMT 2013 KCOR End Synoptic Patrol
Mon Sep 09 22:24:05 GMT 2013 KCOR Start Synoptic Patrol
Mon Sep 09 22:28:33 GMT 2013 KCOR End Synoptic Patrol
KCOR COMMENT BY berkey: Mon Sep 9 22:19:56 GMT 2013
Full Well % was way to high. >1e4...
not sure if this is meaninful.
____end____
KCOR COMMENT BY berkey: Mon Sep 9 22:28:40 GMT 2013
Data from 22:11:43 to 22:16:04 is 1.5" apature 2ms test
Data from 22:24:05 to 22:28:33 is 1.5" apature 5ms test
____end____
Mon Sep 09 22:32:56 GMT 2013 KCOR Start Synoptic Patrol
KCOR COMMENT BY berkey: Mon Sep 9 22:32:00 GMT 2013
Starting 1.5" apature 2ms test with polarizer in the beam.
____end____
Mon Sep 09 22:34:48 GMT 2013 KCOR End Synoptic Patrol
Mon Sep 09 22:35:13 GMT 2013 KCOR Start Synoptic Patrol
KCOR COMMENT BY berkey: Mon Sep 9 22:33:48 GMT 2013
Starting 1.5" apature 5ms test with polarizer in the beam.
____end____
Mon Sep 09 22:36:43 GMT 2013 KCOR End Synoptic Patrol
Mon Sep 09 23:12:44 GMT 2013 KCOR Start Calibration scriptC:\kcor\mlso-calibration.ini

Mon Sep 09 23:20:53 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini
Mon Sep 09 23:38:47 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini
Mon Sep 09 23:42:19 GMT 2013 KCOR End Calibration Script
Mon Sep 09 23:42:22 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini
Mon Sep 09 23:45:47 GMT 2013 KCOR End Calibration Script
Mon Sep 09 23:45:50 GMT 2013 KCOR Start Synoptic Patrol
Mon Sep 09 23:50:25 GMT 2013 KCOR Start Synoptic Patrol
Tue Sep 10 00:00:57 GMT 2013 KCOR Start Synoptic Patrol
Tue Sep 10 00:01:37 GMT 2013 KCOR End Synoptic Patrol
Tue Sep 10 00:17:39 GMT 2013 KCOR Start Synoptic Patrol
KCOR COMMENT BY berkey: Tue Sep 10 00:15:48 GMT 2013

After a lot of starts/stops/restarts of the code I am in a weird place where I tend to get the dialog asking where I want to save the script output when I start the VI. I didn't think labview was capable of remembering that kind of thing between individual executions of the code

____end____

KCOR COMMENT BY berkey: Tue Sep 10 00:17:32 GMT 2013
Just refocused the O1 based on Alfreds script. (I didn't try a camera move).

____end____

Tue Sep 10 00:18:30 GMT 2013 COMP End Patrol
Tue Sep 10 00:18:43 GMT 2013 COMP Start Patrol

KCOR COMMENT BY berkey: Tue Sep 10 00:18:39 GMT 2013
Says cover is in the beam. I am pretty sure this is not the case.

____end____

Tue Sep 10 00:20:03 GMT 2013 KCOR End Synoptic Patrol
Tue Sep 10 00:24:10 GMT 2013 KCOR Start Synoptic Patrol
Tue Sep 10 00:25:55 GMT 2013 KCOR End Synoptic Patrol

KCOR COMMENT BY berkey: Tue Sep 10 00:24:07 GMT 2013
Added a check to make the Timeout state of the synoptic VI, pol and update the Lens cover into the fits header.

____end____

Tue Sep 10 00:27:38 GMT 2013 KCOR Start Calibration scriptC:\kcor\mlso-calibration.ini

KCOR COMMENT BY berkey: Tue Sep 10 00:28:30 GMT 2013

While running a calibration script. Got a funny pop up error:

K-Cor - Stop Socketcam Averaging and Stop DAQ output.vi <append> Task Name: _unnamedTask<8>

Not sure what this means.

____end____

Tue Sep 10 00:31:04 GMT 2013 KCOR End Calibration Script

KCOR COMMENT BY berkey: Tue Sep 10 00:30:09 GMT 2013

There were a few popups with similar text followed by a crash:

Error -50103 occurred at K-Cor - Stop Socketcam Averaging and Stop DAQ Output.vi

\177Possible reason(s):

NI Platform Services: The specified resource is reserved. The operation could not be completed as specified.

Task Name: _unnamedTask<1A>

____end____

Tue Sep 10 00:36:26 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini

GENERAL OBSERVATORY COMMENT BY berkey: Tue Sep 10 00:37:51 GMT 2013

Looks like Kcor and Comp both drift w.r.t the guider in the afternoon. Issue is mostly in DEC. I am not sure if the geometry but they bot look to have error of similar magnitude so I assume this could be the same error

____end____

Tue Sep 10 00:40:36 GMT 2013 KCOR End Calibration Script

Tue Sep 10 00:42:03 GMT 2013 KCOR Start Synoptic Patrol

Tue Sep 10 00:44:00 GMT 2013 KCOR End Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY berkey: Tue Sep 10 00:46:01 GMT 2013

I have been tweaking guider setpoing to make comp happy(er), looks like RA .02 and Dec -.04 are perfect for comp but to big for kcor

____end____

Tue Sep 10 00:53:20 GMT 2013 KCOR Start Synoptic Patrol

Tue Sep 10 00:56:55 GMT 2013 KCOR End Synoptic Patrol

Tue Sep 10 00:57:31 GMT 2013 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY berkey: Tue Sep 10 00:59:18 GMT 2013

After a little bit of investigation it looks like CoMP drifts w.r.t. kcor and the guider. We will have to get the auto-center occulter working again to follow the drift over the course of a day.

____end____

Tue Sep 10 01:01:43 GMT 2013 KCOR End Synoptic Patrol

Tue Sep 10 01:06:04 GMT 2013 COMP End Patrol

Tue Sep 10 01:07:35 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini

Tue Sep 10 01:08:54 GMT 2013 KCOR End Calibration Script

Tue Sep 10 01:09:33 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini

Tue Sep 10 01:08:41 GMT 2013 COMP Start Patrol

Tue Sep 10 01:10:38 GMT 2013 KCOR End Calibration Script

Tue Sep 10 01:13:21 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini

Tue Sep 10 01:14:33 GMT 2013 KCOR End Calibration Script

Tue Sep 10 01:15:54 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini

Tue Sep 10 01:17:56 GMT 2013 KCOR End Calibration Script

Tue Sep 10 01:26:55 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini

Tue Sep 10 01:28:58 GMT 2013 KCOR End Calibration Script

Tue Sep 10 01:30:22 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini

Tue Sep 10 01:32:25 GMT 2013 KCOR End Calibration Script

Tue Sep 10 01:39:14 GMT 2013 KCOR Start Calibration scriptC:\kcoen-test.ini

Tue Sep 10 01:42:21 GMT 2013 KCOR End Calibration Script

Tue Sep 10 01:47:45 GMT 2013 KCOR Start Synoptic Patrol

Tue Sep 10 01:48:20 GMT 2013 KCOR End Synoptic Patrol

KCOR COMMENT BY berkey: Tue Sep 10 01:57:32 GMT 2013

Edited the Make Single Fits Header (SGL).vi

Changed Location to "Mauna Loa", TELESCOP to "MLSO Spar". And changed the logic states of in and out for COVER, DIFFUSE R,CALPOL,DARKSHUT. Every where else in the programing IN=1 OUT=0; but in this vi the states where reversed.

____end____

Tue Sep 10 02:08:13 GMT 2013 KCOR Start Calibration script: C:\kcoen-test.ini

Tue Sep 10 02:08:57 GMT 2013 KCOR End Calibration Script

Tue Sep 10 02:10:29 GMT 2013 KCOR Start Calibration script: C:\kcor\ben-test.ini

Tue Sep 10 02:11:16 GMT 2013 KCOR End Calibration Script

Tue Sep 10 02:46:44 GMT 2013 COMP End Patrol

Tue Sep 10 03:02:50 GMT 2013: PSPT Abort Patrol

Tue Sep 10 03:02:54 GMT 2013: PSPT Abort Patrol

Tue Sep 10 03:02:58 GMT 2013: PSPT Abort Patrol

KCOR COMMENT BY berkey: Tue Sep 10 03:16:00 GMT 2013

The synotpic code should not properly deal with the dark shutter buttons and feedback LED's. I was suprised to find that in the digital IO bit 0 seemed to be useful for reading and writting shutter 0's state. But for shutter 1, I needed bit 1 to move it and bit 2 to read back state information. I need to do more research on what bit is what.

___end___