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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 ed
ge). 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 doign the wrong thing, it has a very low value that inc
reases slightly over the aqusition 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 DAO Output.vi we caught an error.
Socketcam window says:
Acquisition has been aborted
Acquisition has been aborted
Brd1 circular acquisition error has occured.
Brd0 circular acquisition error has occoured.
When I type quit into socketcam I get a
BufIn Error
Error In Function Bufin INternal Error. An error as occured 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
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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 occured at K-Cor -Stop Socketcam Averaging adn Stop DAO Output.vi
Possible reasons:
NI Platform Servcies: The specified resource is reserved. The operation could not be completeled 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 RecvSignalsThread ending
        socketcam recv error
        socketcam RecvSignalsThread ending
        socketcam recv error
        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 occured.
Brd0 circular acquisition error has occured.
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
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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 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
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Mon Sep 09 23:20:53 GMT 2013 KCOR Start Calibration scriptC:\kcomen-test.ini
Mon Sep 09 23:38:47 GMT 2013 KCOR Start Calibration scriptC:\kcomen-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:\kcommo-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 capiable of remembering that kind of thing between
en indivdiual 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.
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> <B> Task Name: </B>_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 DAO 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:\kcommo-test.ini
GENERAL OBSERVATORY COMMENT BY berkey: Tue Sep 10 00:37:51 GMT 2013
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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 geomet
ry 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 b
ig 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-ce
nter occulter working again to follow the drift over the course of a day.
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:\kcomen-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:\kcomen-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:\kcommo-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:\kcomen-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:\kcomen-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:\kcomm-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:\kcomen-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
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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 supprised to find that in the digital IO bit O seemed to be useful for reading and writting shutter O'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___