
Mauna Loa Solar Observatory Observer's Log

Mon Oct 10 16:49:35 GMT 2022

Year: 22 Doy: 283

Observer: embern

WEATHER COMMENT: embern: Mon Oct 10 16:49:59 GMT 2022

Temp: 41.6f, Humidity: 77%, Pressure: 28.68lin, Wind: 2mph from 105deg, Skies: scattered cirrus clouds above, mostly to the west and south

____end____

UCoMP COMMENT BY mlso: Mon Oct 10 18:25:26 GMT 2022

UCoMP filter wheel was giving us trouble again this morning; it seemed to be stuck in an infinite loop attempting multiple retries to make the move. When looking at the code, I found a race condition related to an uninitialized variable. In most cases, the variable would current filter wheel position before it was read back, but some of the time (like this morning) the system read it out before it was written to. A small code fix was made to initialize the value to -1; this seems to fix the crash on an uninitialized variable and the filter wheel now seems to be working as expected.

____end____

Mon Oct 10 18:41:07 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Mon Oct 10 18:43:01 GMT 2022 Kcor Focus/alignment program exited

Mon Oct 10 18:44:55 GMT 2022 KCOR Start Synoptic Patrol

GENERAL COMMENT BY embern: Mon Oct 10 18:49:34 GMT 2022

PM Blew off Kcor 01, before start

____end____

GENERAL COMMENT BY embern: Mon Oct 10 18:49:50 GMT 2022

PM Blew off UCoMP 01, before start

____end____

Mon Oct 10 19:01:41 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Mon Oct 10 19:13:58 GMT 2022 KCOR End Patrol

Mon Oct 10 19:13:58 GMT 2022 UCoMP Paused for clouds

Mon Oct 10 19:23:55 GMT 2022 UCoMP Restarted from pause

Mon Oct 10 19:24:03 GMT 2022 KCOR Start Synoptic Patrol

Mon Oct 10 19:49:53 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Mon Oct 10 19:50:58 GMT 2022 UCoMP Paused for clouds

Mon Oct 10 19:51:06 GMT 2022 KCOR End Patrol

Mon Oct 10 20:59:13 GMT 2022 UCoMP Restarted from pause

Mon Oct 10 20:59:39 GMT 2022 UCoMP Paused for clouds

KCOR COMMENT BY mlso: Mon Oct 10 23:05:32 GMT 2022

The online mc4u was pulled out to inspect the jumper settings today. We found the I/O Jumpers (table 88 in SPiiPlus MC4u hw guide.pdf) were different between the two units, but everything else was identical.

The online units J1, J3, J5, and J7 are open with no connection indicating an external power supply. And in the spare unit, these jumpers are 2-3, indicating an internal 24V power supply.

After documenting jumper positions, the two units were reassembled (without making any changes), and online MC4u was reinstalled back into the NEMA box. Testing shows we still have expected control on all motion stages controlled by the Mc4u.

____end____

Tue Oct 11 00:29:33 GMT 2022 UCoMP Restarted from pause

GENERAL COMMENT BY embern: Tue Oct 11 00:34:30 GMT 2022

short amount of time observing this morning but clouds and fog have prevented any observing this afternoon.

____end____

ONSITE STAFF: berkey, embern