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Mauna Loa Solar Observatory Observer's Log
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       Tue Oct 12 16:18:50 GMT 2021
Year: 21 Doy: 285
Observer: lisapq
WEATHER COMMENT: lisapg: Tue Oct 12 16:21:04 GMT 2021
Temp: 44.1f with wind speed at about 17-23mph from the South-Southeast. Sky covered in cumulus clouds at present and very
wet close to the observatory. Waiting for better conditions before opening.
end
UCOMP COMMENT BY berkey: Tue Oct 12 21:11:04 GMT 2021
Changed the way we talk to the cameras when reading out temps or writing things like exposure time/frame rates. We had be
en waiting for fixed amounts of time between writing as waiting for results. We now kind of poll the camera for updates.
This might save 5-6 seconds per recipe. Running closed dome tests to see if the code beahivor is still c
 end
Tue Oct 12 21:18:56 GMT 2021 Running UCOMP Cookbook dark 80ms 2beam 16sums BOTH.cbk line 0
Tue Oct 12 21:20:12 GMT 2021 Running UCOMP Cookbook 637 Scan.cbk line 0
Tue Oct 12 21:22:43 GMT 2021 Running UCOMP Cookbook 656 Scan.cbk line 0
Tue Oct 12 21:24:53 GMT 2021 Running UCOMP Cookbook 789_Scan.cbk line 0
Tue Oct 12 21:27:05 GMT 2021 Running UCOMP Cookbook 1074_Scan.cbk line 0
Tue Oct 12 21:29:19 GMT 2021 Running UCOMP Cookbook 1079 Scan.cbk line 0
Tue Oct 12 21:31:19 GMT 2021 Running UCOMP Cookbook 1083_Scan.cbk line 0
Tue Oct 12 21:33:21 GMT 2021 Running UCOMP Cookbook all wavelenght coronal flat.cbk line 0
UCOMP COMMENT BY berkey: Tue Oct 12 21:42:14 GMT 2021
Something went wrong with the temps; seeing -8 and 105C....
end
Tue Oct 12 21:45:18 GMT 2021 Running UCOMP Cookbook dark 80ms 2beam 16sums BOTH.cbk line 0
Tue Oct 12 21:46:34 GMT 2021 Running UCOMP Cookbook 637_Scan.cbk line 0
Tue Oct 12 21:48:34 GMT 2021 Running UCOMP Cookbook 656_Scan.cbk line 0
Tue Oct 12 21:50:35 GMT 2021 Running UCOMP Cookbook 789 Scan.cbk line 0
Tue Oct 12 21:52:37 GMT 2021 Running UCOMP Cookbook 1074_Scan.cbk line 0
Tue Oct 12 21:54:50 GMT 2021 Running UCOMP Cookbook 1079_Scan.cbk line 0
Tue Oct 12 21:57:00 GMT 2021 Running UCOMP Cookbook 1083 Scan.cbk line 0
Tue Oct 12 21:59:11 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk line 0
Tue Oct 12 22:24:34 GMT 2021 Running UCOMP Cookbook all wavelenght coronal.cbk line 0
Tue Oct 12 22:26:00 GMT 2021 Running UCOMP Cookbook waves 1074 1hour.cbk line 0
GENERAL COMMENT BY lisapg: Tue Oct 12 22:57:17 GMT 2021
Raining
end
Tue Oct 12 23:24:21 GMT 2021 Running UCOMP Cookbook dark_200_1sums_80ms.cbk line 0
Tue Oct 12 23:29:21 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk line 0
Tue Oct 12 23:53:35 GMT 2021 Running UCOMP Cookbook waves 1074 1hour.cbk line 0
Wed Oct 13 00:49:38 GMT 2021 Running UCOMP Cookbook dark_200_1sums_80ms.cbk line 0
Wed Oct 13 00:59:22 GMT 2021 Running UCOMP Cookbook waves 1074 1hour.cbk line 0
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Wed Oct 13 01:23:45 GMT 2021 Running UCOMP Cookbook waves 1074 lhour.cbk line 0

Wed Oct 13 02:11:15 GMT 2021 Running UCOMP Cookbook 637 Scan.cbk line 0

Wed Oct 13 02:10:00 GMT 2021 Running UCOMP Cookbook dark 80ms 2beam 16sums BOTH.cbk line 0

Wed Oct 13 02:13:51 GMT 2021 Running UCOMP Cookbook 656_Scan.cbk line 0 Wed Oct 13 02:15:28 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 0 UCOMP COMMENT BY berkey: Wed Oct 13 03:03:30 GMT 2021 Working to optimize the UCOMP software:

Before starting a waves 1074, 3wave, 2beam, 11 sums recipes took on average 30.4 seconds to run.

Editing the camera temp correction to reterive the ADC coefficents once per run of the observing code (instead of every te mp read) and changing the serail communication with the cameras from one where we sent a command and waited a period of ti me before reading to a more constant polling until the the command has finished. Got the time down to an average of 27.8se conds per run.

Re-ordering operations inovled with setting up an observation as well as allowing concurrent operations of some work. Move the average time down to 26.8.

If we disable the polling of the calpol/calret/and calopitcs the time can be brought down to 26.4 seconds for a 1074 waves . Right now I think we need to keep this polling to make sure the header is up today, but longer term we should look at m oving this out of the run-recipe function.

end

ONSITE STAFF: lisapg