Weighting schemas

We have N exposures, and we want to combine them to create a master frame (E.g., Master Stellar).

The common approach is to collect, N frames in a cube format and find the statistical mean or median for each set of pixels Pxy (E.g. Pxy 1, . Pxy 2 …., . Pxy N ) where x and y reference the pixel in the master frame.

1. Addition
2. Statistical Mean
3. Statistical Median
4. Mean Sigma Clipping within 1 std
5. Weights inversely proportional to MAE, MSW and SMAPE with respect mean ad median
6. Bayesian Approach assume a Normal Distribution and assign weights inversely proportional to Bayesian probability

For comparison files (reduced master stellars) look into :

“C:\Users\mrstu\idlworkspace\_yalecalibration\chiron\debugging\weighting\_schemas”

Note these can be applied to the creation of any master

None of the files were divided by the master flat