# Rough List of Programs

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## Introduction

I always get confused which programs are which so I'm just putting them all here

# 1 List of Programs

#### 1. barkbark

makes some plots comparing the attempts of finding a threshold for our image

#### 2. bordercheck

Makes a binary mask 1 pixel thick on the border, checks if there are any pixels that are above the mode of the image. If so, returns a 0. If okay, 1.

#### 3. circscancrop

Using the position of the center sun, scans in a circle at a specified radius until it picks up the auxiliarry suns and crops appropriately.

#### 4. cropme

Crops a certain pixel legth off the border

#### 5. edgefidcheck

Incomplete: Checks the bordering 6 pixels of an image for fiducials. If it finds one, it does something.

#### 6. fastcenter

Uses the sorted image to return very rough center positions of the suns. Fast.

#### 7. galapagos

Earlier version of barkbark I think

#### 8. getstruct

Makes 3 structures, 1 for each sun. Each structure holds the center position as well as the threshold used to find it

#### 9. histosmoothed

Tries looking at the histogram of the 2D image instead of the sorted array, doesn't work well.

#### 10. kahuna

Calls getstruct and is more or less a calling program that loads the parameter table

### 11. last6pixels

Makes some plots of what the bordering 6 pixels of a fiducial look like as you crop it off the edge of the iamge

#### 12. limbfit

Finds the center of a sun using chords

#### 13. makelimbstrips

Makes 5 limb-only arrays fron the 5 chord arrays

#### 14. makestrips

Makes 5 chord arrays centered on the specific sun

#### 15. morescratch

Messing with convol() and stuff to find the threshold, obsolete

#### 16. quickfidmask

Used to find a quick CoM of a shape below a threshold

## 17. quickmask

Used to find a quick CoM of a shape above a threshold

### 18. scratch

Another thing to find the threshold

#### setpeak

Find the boundaries of the humps in the sorted image

### 20. setthresh

Finds the thresh of the 1D array at the hump intersection point. Very barebones, actually.

## 21. whichcropmethod

Decides whether or not to use quickmask or circscancrop when finding the center of the suns