

---

Subject: Program architecture question

Posted by [Marc Reinig](#) on Tue, 03 May 2005 20:31:29 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I am writing a program that takes an image from a ROI on a camera, processes the image, finds the centroids of certain elements, uses those to calculate slopes and then reconstructs a surface: a wavefront sensor.

So I have several modules for my wavefront sensor:

- CameraCapture

- ImageProcess

- Centroid

- SlopeExtract

- Reconstruct

I will be doing this "simultaneously" for several WFS's. So what I would like to do is have a single context for each WFS that contains all the information needed to process the captured image and provide a wavefront.

My thought is to have a single structure that is filled in for each WFS and passed to it. Each module would get all the information it needs from it's WFS's context and would use or fill in the appropriate info.

I could then save the structure and capture the entire data flow for evaluation at a later date.

The image array might be 1024x1024 x 16 bits. There would be other arrays passed between the modules that would be 100x100 floating point values. So my structure would be fairly large, >2MB.

Is that an unreasonable size for a structure?

Marco

---

Marc Reinig

UCO/Lick Observatory

Laboratory for Adaptive Optics

---