Subject: flux-conserving image resampling?
Posted by Marshall Perrin on Thu, 23 Feb 2006 04:10:14 GMT
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Some time ago, there was a thread in this newsgroup on 'drizzle'-like image resampling methods, much of which is preserved on David's web page. Well, actually it was mostly a thread on clever and convoluted histogram tricks, and resulted in some speedy solutions to array decimation. But the ultimate consensus then was that there is no good drizzle-like flux conserving image resampler in IDL, and maybe C is a better way to go.

Before I sit down and reinvent the wheel on this one, I thought I'd ask around and see what, if any, code for this might exist now a few years later. I'm looking for a good way to take pixellated data measured in a camera with known field distortion and resample them onto a regular grid. Drizzle or PyDrizzle would do what I want, except it seems fairly nontrivial to get them to accept non-HST data. (Am I wrong? If anyone has tips on how to do this, I'm all ears.) If anyone knows of an IDL solution for this, or a C DLM, I'd be most appreciative... And failing that, at least knowing definitively that no such thing exists now would probably help fortify my spirits for writing my own!

Thanks,

 - Marshall