
Subject: Re: Mean preserving interpolation (conservative interpolation)

Posted by [wlandsman](#) on Tue, 16 Oct 2012 17:14:24 GMT

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On Tuesday, October 16, 2012 12:52:39 PM UTC-4, Coyote wrote:

>

>

> The keyword you are looking for is MINUS_ONE:

>

>

While the /MINUS_ONE keyword works for your particular example, I don't believe it is a general solution. I'd suggest `frebin.pro` (<http://idlastro.gsfc.nasa.gov/ftp/pro/image/frebin.pro>) as a flux-conserving alternative to CONGRID.

```
IDL> x = randomn(seed,100)*10
IDL> y = congrid(x,367,/minus_one,/interp)
IDL> z = frebin(x,367)
IDL> print,mean(x),mean(y),mean(z)
-0.593289 -0.546786 -0.593280
```
