
Subject: Re: re-binning with linear interpolation
Posted by [abc](#) on Wed, 01 Jun 2011 13:35:30 GMT
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On Jun 1, 11:55 am, Wox <s...@nomail.com> wrote:
> On Wed, 1 Jun 2011 01:17:10 -0700 (PDT), [abc <deearvin...@gmail.com>](mailto:abc<deearvin...@gmail.com)
> wrote:
>
>> I want to re-bin the wavelength at a step of 1 A and also the flux at
>> the same step but with linear interpolation.
>
> a=[[5201.720215,0.0097],\$
> [5205.345215,0.0088],\$
> [5208.970703,0.0080],\$
> [5212.596191,0.0094],\$
> [5216.221680,0.0133],\$
> [5219.846680,0.0167],\$
> [5223.472168,0.0169],\$
> [5227.097656,0.0156],\$
> [5230.722656,0.0145],\$
> [5234.348145,0.0138],\$
> [5237.973633,0.0130],\$
> [5241.599121,0.0118],\$
> [5245.224121,0.0110],\$
> [5248.849609,0.0116],\$
> [5252.475098,0.0134],\$
> [5256.100586,0.0147],\$
> [5259.725586,0.0139],\$
> [5263.351074,0.0126]]
>
> ; New wavelengths
> b=floor(a[0,0])
> e=ceil(a[0,-1])
> inc=1.
> x=b+inc*lindgen(1,(e-b)/inc+1)
>
> ; Linear interpolate flux
> y=interpol(a[1,*],a[0,*],x)
>
> ; Plot
> pa=plot(a,'+r-')
> pb=plot(x,y,'+-'./overplot)

Dear Wox,

Thanks a lot for your help. I tried to run the program as u mention and it works fine. But the problem is that as you took `e=ceil(a[0,1])` it stops at 5206A. and it is not proceeding further. I have total 30000 data point. and I want to run the code for all of

them.

I tried with

```
b=floor(a[0,*])
```

```
e=ceil(a[0,*])
```

but then I am getting an error

```
"LINDGEN: Expression must be a scalar or 1 element array in this  
context: <LONG    Array[1, 18]".
```

hope you understand the my problem.

Again thanks for the prompt response.
