Subject: Re: getting uniform cadence data
Posted by Markus Schmassmann on Wed, 19 Oct 2016 09:46:36 GMT
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On 10/19/2016 10:26 AM, sid wrote:
> I have 400 images taken at different time interval 6seconds, 7
> seconds, 8seconds and 12 seconds.
>
> But for the analysis, I want 12second cadence image series. Is there
> a way to get 12 second cadence image series out of this data.

```
;data= array of size [400,naxis] containing images
;sec = seconds after first image

; dummy data & sec for test purposes:
data=randomu(seed,[400,45,87])
t=randomu(seed,400)*10
sec=total(t,/cumulative)

secOut=[0.:ceil(sec[399]/12.)*12.:12.]
nso=n_elements(secOut)
naxis=(size(data,/dim))[1:2]
dataOut=fltarr([nso,naxis])
for i=0,naxis[0]-1 do for j=0,naxis[1]-1 do $
    dataOut[*,i,j]=reform(INTERPOL(data[*,i,j],sec,secOut),[1,1, nso])
```

what keywords of INTERPOL to set you need to figure out yourself

Anyone know a way of doing it faster?

Good luck, Markus

http://www.harrisgeospatial.com/docs/INTERPOL.html