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Subject: Re: How to obtain running averages for different time scales in IDL?

Posted by on Thu, 30 Jan 2014 16:23:04 GMT

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Den torsdagen den 30:e januari 2014 kl. 17:00:56 UTC+1 skrev Madhavan Bomidi:

> Hello,

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>

> Can anyone provide me information on how to compute running averages for different time scales for a variable, which is a function of time @ 1 sec resolution?

>

>

>

> I wanted to obtain the running averages of the variable at different time stamps, say 1, minute, 5 minutes, 15 minutes, 30 minutes, 1 hour etc. and then calculate the residue of the running average values of the variable w.r.t the raw variable data. Any IDL examples will be of great help.

>

>

>

> Thanks in advance...

I'm not sure what you mean by wanting the running average at just a number of time stamps. Is this similar to what you want to do?

```
IDL> a=randomn(seed,1000)
```

```
IDL> cgplot,a
```

```
IDL> N=10
```

```
IDL> b=convol(a,replicate(1.,N)/N)
```

```
IDL> cgplot,/over,b,color='red'
```

```
IDL> N=100
```

```
IDL> b=convol(a,replicate(1.,N)/N)
```

```
IDL> cgplot,/over,b,color='blue'
```

Then you just have to figure out N for the time scales you are interested in.

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