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

Posted by [Matthew Argall](#) on Thu, 30 Jan 2014 18:43:32 GMT

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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 do not use the Convol function ever, but you can do it using Smooth().... See Phil Blitzer's answer here:

<https://groups.google.com/forum/#!topic/comp.lang.idl-pvwave/rll0HsZtpGE>

Adding to that, look at the EDGE\_TRUNCATE keyword in Smooth()

```
samples_per_second = 1
```

```
nSamples = 86400 * samples_per_second
```

```
seconds_per_minute = 60
```

```
time = findgen(nSamples)
```

```
data = randomu(0, nSamples)
```

```
data_avg = smooth(data, samples_per_second*seconds_per_minute)
```

```
residue = data - data_avg
```

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