Subject: 3D matrix

Posted by g.nacarts on Thu, 04 Dec 2014 11:09:26 GMT

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Ηi

I have a 3D matrix A = Array[100, 200, 200]A = [time, x, y]

I want to create a matrix B which is the average of the first 10 time points (total is 100 time points). I should end up with a 2D matrix B=Array[200,200].

Can anyone help please?

Subject: Re: 3D matrix

Posted by Helder Marchetto on Thu, 04 Dec 2014 11:18:06 GMT

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On Thursday, December 4, 2014 12:09:29 PM UTC+1, g.na...@gmail.com wrote:

- > Hi
- >
- > I have a 3D matrix A = Array[100, 200, 200]
- > A = [time, x, y]

>

- > I want to create a matrix B which is the average of the first 10 time points (total is 100 time points). I should end up with a 2D matrix B=Array[200,200].
- > Can anyone help please?

How about

b = mean(a[0:9,*,*],dimension=1)

is this what you mean?

Helder

Subject: Re: 3D matrix

Posted by g.nacarts on Thu, 04 Dec 2014 11:45:25 GMT

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dimension keyword is not allowed in call to mean.

I tried the b = mean(a[0:9,*,*]) but I end up with a single value which is not what I need.

Subject: Re: 3D matrix

Subject: Re: 3D matrix

Posted by g.nacarts on Thu, 04 Dec 2014 11:53:06 GMT

Posted by Helder Marchetto on Thu, 04 Dec 2014 11:55:14 GMT

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I have an old version of IDL 6.4. I don't know if this causes the problem and I can't use the keyword dimension

```
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On Thursday, December 4, 2014 12:45:26 PM UTC+1, g.na...@gmail.com wrote:
> dimension keyword is not allowed in call to mean.
> I tried the b = mean(a[0:9,*,*]) but I end up with a single value which is not what I need.
IDL> a = findgen(100,200,200)
IDL> b = mean(a[0:9,*,*], dimension=1)
IDL> help, b
          FLOAT
                    = Array[200, 200]
IDL> !version
  "ARCH": "x86_64",
  "OS": "Win32",
  "OS_FAMILY": "Windows",
  "OS_NAME": "MicrosoftWindows",
  "RELEASE": "8.4",
  "BUILD_DATE": "Sep272014",
  "MEMORY_BITS": 64,
  "FILE_OFFSET_BITS": 64
}
I guess you don't have the latest version of IDL.
Well, calculating the mean is not that difficult:
b = total(a[0:9,*,*], 1)/10.0
Cheers.
Helder
```