
Subject: Adding arrays

Posted by [Dete van Eeden](#) on Fri, 17 Jul 2015 07:38:57 GMT

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Hallo,

I am trying to add arrays together in a for loop but the end result is just equal to the last array.

```
for k=0,5 do begin
```

```
  read in the array etc.
```

```
  final = final + array
```

```
endfor
```

The final is suppose to be the sum of all the arrays.

Thank you!

Subject: Re: Adding arrays

Posted by [Nikola](#) on Fri, 17 Jul 2015 09:26:46 GMT

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On Friday, July 17, 2015 at 8:39:01 AM UTC+1, Dete van Eeden wrote:

> Hallo,

>

> I am trying to add arrays together in a for loop but the end result is just equal to the last array.

>

> for k=0,5 do begin

>

> read in the array etc.

>

> final = final + array

>

> endfor

>

> The final is suppose to be the sum of all the arrays.

>

> Thank you!

You somehow overwrite your variable f within the loop (if f is reset to 0 for every k, the final result is clearly just the last element). If it is not obvious, perhaps it's in a subfunction that your calling in the loop?

Subject: Re: Adding arrays
Posted by [Dete van Eeden](#) on Fri, 17 Jul 2015 16:42:10 GMT
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Makes sense...

How do I define an array that consists of 5 arrays each with 256x256 elements?

For example final(k) is the sum of the arrays from 1 to 5 and final=fltarr(256,256)

It seems so simple but I cant get it right :-)

Subject: Re: Adding arrays
Posted by [David Fanning](#) on Fri, 17 Jul 2015 18:26:03 GMT
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Dete van Eeden writes:

> How do I define an array that consists of 5 arrays each with 256x256 elements?
>
> For example final(k) is the sum of the arrays from 1 to 5 and final=fltarr(256,256)
>
> It seems so simple but I cant get it right :-)

```
total = FltArr(256,256)
data = FltArr(256, 256, 5)
FOR j=0,4 do total = Temporary(total) + data[:,*,j]
```

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Adding arrays
Posted by [David Fanning](#) on Fri, 17 Jul 2015 18:36:42 GMT
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David Fanning writes:

>
> Dete van Eeden writes:
>

```
>> How do I define an array that consists of 5 arrays each with 256x256 elements?
>>
>> For example final(k) is the sum of the arrays from 1 to 5 and final=fltarr(256,256)
>>
>> It seems so simple but I cant get it right :-)
>
> total = FltArr(256,256)
> data = FltArr(256, 256, 5)
> FOR j=0,4 do total = Temporary(total) + data[*,*,j]
```

Or, the IDL Way:

```
data = Randomu(seed, 256,256,5)
total = Total(data, 3)
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Adding arrays

Posted by [Dete van Eeden](#) on Sun, 19 Jul 2015 12:34:28 GMT

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Thank you very much :-)

Subject: Re: Adding arrays

Posted by [dete.liebenberg](#) on Mon, 20 Jul 2015 07:34:47 GMT

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On Sunday, July 19, 2015 at 2:34:32 PM UTC+2, Dete van Eeden wrote:

> Thank you very much :-)

Is there a reason why this would work for 3 dimensions but not 2.

If a have data=fltarr(256,4)

the total is equal to the last array again?

Thank you
