Subject: Re: Split an int array into different arrays
Posted by David Fanning on Mon, 04 Mar 2013 12:26:26 GMT
View Forum Message <> Reply to Message

Krishnakumar M.A writes:

> I am writing a simulation in which I have to deal with a large 1D integer array and want to split it into different arrays of same length and add them one over the other, like folding. Are there any function of idl which will do it? It will be very helpful to me, if anyone can solve this.

array = RandomU(seed, 100000)
foldedArray = Rebin(array, 100, 100)

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: Split an int array into different arrays
Posted by on Mon, 04 Mar 2013 12:29:42 GMT
View Forum Message <> Reply to Message

Den måndagen den 4:e mars 2013 kl. 13:11:57 UTC+1 skrev Krishnakumar M.A:
> Dear All,
>
> I am writing a simulation in which I have to deal with a large 1D integer array and want to split it into different arrays of same length and add them one over the other, like folding. Are there any function of idl which will do it? It will be very helpful to me, if anyone can solve this.

Sounds like you could do it by first REFORMing the large 1D array to a 2D array (the "folding") and then use TOTAL to sum over one of the dimensions.

Subject: Re: Split an int array into different arrays
Posted by David Fanning on Mon, 04 Mar 2013 12:44:42 GMT
View Forum Message <> Reply to Message

David Fanning writes:

> array = RandomU(seed, 100000)
> foldedArray = Rebin(array, 100, 100)

Duh! I seem to always type "Rebin" when I mean "Reform". Sorry. :-(

```
array = RandomU(seed, 100000)
foldedArray = Reform(array, 100, 100)
```

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: Split an int array into different arrays
Posted by Krishnakumar M.A on Mon, 04 Mar 2013 14:00:35 GMT
View Forum Message <> Reply to Message

On Monday, March 4, 2013 5:59:42 PM UTC+5:30, Mats Löfdahl wrote:
> Den måndagen den 4:e mars 2013 kl. 13:11:57 UTC+1 skrev Krishnakumar M.A:
>
>> Dear All,
>
>>
>
>> I am writing a simulation in which I have to deal with a large 1D integer array and want to split it into different arrays of same length and add them one over the other, like folding. Are there any function of idl which will do it? It will be very helpful to me, if anyone can solve this.
>
>
>
> Sounds like you could do it by first REFORMing the large 1D array to a 2D array (the "folding") and then use TOTAL to sum over one of the dimensions.

Thanks for the sudden reply. I tried that but what it is not "splitting" the dataset into different arrays, instead giving the same data set in each new array, which is not I wanted. I made some confusion in the question, i think. What i require is to split a large array, say array(1000) to arrays(100), in which i will be getting first 100 points in the first column then the next 100 in the 2nd column and so on. but that is not happening with the reform command?
Did I do anything wrong?

Subject: Re: Split an int array into different arrays

Krishnakumar M.A writes:

> Thanks for the sudden reply. I tried that but what it is not "splitting" the dataset into different arrays, instead giving the same data set in each new array, which is not I wanted. I made some confusion in the question, i think. What i require is to split a large array, say array(1000) to arrays(100), in which i will be getting first 100 points in the first column then the next 100 in the 2nd column and so on. but that is not happening with the reform command?
> Did I do anything wrong?

Probably you just forgot to mention "columns". We all think "rows"
around here. Try this:

```
array = Indgen(100)
foldedArray = Transpose(Reform(array, 10, 10))
```

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.")