
Subject: make mape

Posted by [Ali Gamal](#) on Tue, 05 Sep 2017 12:05:00 GMT

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Hi,

I have 10000 values of h at specific 10000 values of x and y, every values stored in idlsave file, I want to combine all values of h at specific x,y in new array take this form

hh=[x,y,h]

where

IDL> help,h
h FLOAT = Array[1, 1, 56]

Subject: Re: make mape

Posted by [Markus Schmassmann](#) on Tue, 05 Sep 2017 13:58:11 GMT

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On 09/05/2017 02:05 PM, AGW wrote:

> I have 10000 values of h at specific 10000 values of x and y, every
> values stored in idlsave file, I want to combine all values of h at
> specific x,y in new array take this form
>
> hh=[x,y,h]
>
> where
>
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> h FLOAT = Array[1, 1, 56]
most likely what you want is easiest to get using

Result = GRIDDATA(x, y, h)

If you want to combine your values within a grid interval yourself you could modify HIST_2D to give you a reverse index.

Hopefully one of these approaches gives you what you need, good luck,
Markus

Subject: Re: make mape

Posted by [Ali Gamal](#) on Tue, 05 Sep 2017 15:31:41 GMT

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On Tuesday, September 5, 2017 at 2:05:03 PM UTC+2, AGW wrote:

```
> Hi,  
>  
> I have 10000 values of h at specific 10000 values of x and y, every values stored in idlsave file,  
I want to combine all values of h at specific x,y in new array take this form  
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> hh=[x,y,h]  
>  
> where  
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> IDL> help,h  
> h      FLOAT = Array[1, 1, 56]
```

It not work

Unable to concatenate variables because the dimensions do not agree: h.

Subject: Re: make mape

Posted by [Markus Schmassmann](#) on Wed, 06 Sep 2017 12:19:39 GMT

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On 09/05/2017 05:31 PM, AGW wrote:

```
> On Tuesday, September 5, 2017 at 2:05:03 PM UTC+2, AGW wrote:  
>> I have 10000 values of h at specific 10000 values of x and y, every  
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>>  
>> hh=[x,y,h]  
>>  
>> where  
>>  
>> IDL> help,h h      FLOAT = Array[1, 1, 56]  
> It not work  
>  
> Unable to concatenate variables because the dimensions do not agree:  
> h.
```

what are the dimensions of x & y?

IDL> help, x,y,h

Subject: Re: make mape

Posted by [Ali Gamal](#) on Wed, 06 Sep 2017 18:32:47 GMT

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On Tuesday, September 5, 2017 at 2:05:03 PM UTC+2, AGW wrote:

```
> Hi,  
>  
> I have 10000 values of h at specific 10000 values of x and y, every values stored in idlsave file,  
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>  
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>  
> where  
>  
> IDL> help,h  
> h      FLOAT  = Array[1, 1, 56]  
  
h      FLOAT  = Array[1, 1, 56]  
  
IDL> help,x  
X      INT    =     200  
  
IDL> help,y  
Y      INT    =     230
```

Subject: Re: make mape

Posted by [Markus Schmassmann](#) on Thu, 07 Sep 2017 11:46:48 GMT

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On 09/06/2017 08:32 PM, AGW wrote:

```
> I have 10000 values of h at specific 10000 values of x and y, every  
> values stored in idlsave file, I want to combine all values of h  
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> where  
>  
> IDL> help,h  
> h      FLOAT  = Array[1, 1, 56]  
>  
> IDL> help,x  
> X      INT    =     200  
>  
> IDL> help,y  
> Y      INT    =     230
```

I'm not sure I understand what you want, but maybe this is it:

```
sz=size(h,/dim)  
hh=[replicate(x,sz),replicate(y,sz),h]
```

If not, please explain better what you want.

Markus

Subject: Re: make mape

Posted by [Ali Gamal](#) on Thu, 07 Sep 2017 16:56:28 GMT

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On Tuesday, September 5, 2017 at 2:05:03 PM UTC+2, AGW wrote:

> Hi,
>
> I have 10000 values of h at specific 10000 values of x and y, every values stored in idlsave file,
I want to combine all values of h at specific x,y in new array take this form
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> hh=[x,y,h]
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Sorry for this confusion, I have map 500 x 1000 pixels, I want to calculate the velocity of some pixels, I calculate it correctly, I want to make map of velocity, but the problem is I did not calculate all pixels so I want to put the new values of velocity in origin position (x & y). How can I do it?

Subject: Re: make mape

Posted by [Markus Schmassmann](#) on Fri, 08 Sep 2017 09:56:28 GMT

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On 09/07/2017 06:56 PM, AGW wrote:

> On Tuesday, September 5, 2017 at 2:05:03 PM UTC+2, AGW wrote:

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> Sorry for this confusion, I have map 500 x 1000 pixels, I want to
> calculate the velocity of some pixels, I calculate it correctly,

> want to make map of velocity, but the problem is I did not calculate
> all pixels so I want to put the new values of velocity in origin
> position (x & y). How can I do it

; Creating example data:

```
x_all=randomu(seed,10000)
y_all=randomu(seed,10000)
x=[0:1:(1./499)]
y=[0:1:(1./999)]
values_all=sin(!dpi*2*x_all)*cos(!dpi*2*y_all)
```

; Data for 10000 points calculated:

```
IDL> help, x_all, y_all, value_all
X_ALL   FLOAT   = Array[10000]
Y_ALL   FLOAT   = Array[10000]
VALUE_ALL FLOAT   = Array[10000]
```

; and the coordinates of your desired map is given by

```
IDL> help, x, y
X      FLOAT   = Array[500]
Y      FLOAT   = Array[1000]
```

; then you can create your map by

```
yourMap = GRIDDATA( x_all, y_all, values_all , /grid, xout=x, yout=y)
```

; exact for comparison

```
exact=rebin( sin(!dpi*2*x) ,[500,1000])* $
    rebin(transpose(cos(!dpi*2*y)),[500,1000])
```

; show

```
im=image([yourMap,exact,yourMap-exact])
```

; I hope this is what you want, good luck, Markus

Subject: Re: make mape

Posted by [Ali Gamal](#) on Wed, 13 Sep 2017 12:09:46 GMT

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On Tuesday, September 5, 2017 at 2:05:03 PM UTC+2, AGW wrote:

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> thanks for your help
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