
Subject: make mape

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

[View Forum Message](#) <> [Reply to Message](#)

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

[View Forum Message](#) <> [Reply to Message](#)

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

>

> IDL> help,h

> 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

[View Forum Message](#) <> [Reply to Message](#)

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  
>  
> 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.

Subject: Re: make mape

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

[View Forum Message](#) <> [Reply to Message](#)

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  
>> 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]  
> 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

[View Forum Message](#) <> [Reply to Message](#)

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
>
> hh=[x,y,h]
>
> 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

[View Forum Message](#) <> [Reply to Message](#)

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
> at specific x,y in new array take this form
>
> hh=[x,y,h]
>
> 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

[View Forum Message](#) <> [Reply to Message](#)

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
>
> hh=[x,y,h]
>
> where
>
> IDL> help,h
> h      FLOAT    = Array[1, 1, 56]
```

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

[View Forum Message](#) <> [Reply to Message](#)

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

```
> 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
>>
>> hh=[x,y,h]
>>
>> where
>>
>> IDL> help,h
>> h      FLOAT    = Array[1, 1, 56]
>
> 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

; 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

[View Forum Message](#) <> [Reply to Message](#)

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

> Hi,
> thanks for your help
> 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]
```
