Subject: Re: hist_norm
Posted by penteado on Wed, 03 Nov 2010 01:46:00 GMT
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```
On Nov 2, 11:28 pm, le.dav...@tiscali.it wrote:
> Hi folks,
> I am trying to use "hist norm.pro" in a code like that (my first
> time):
> pro istog, howmanyt
>
   t = fltarr(howmanyt)
   N = 20.
>
   for k=0, howmanyt-1, 1 do begin
>
      t[k] = total(randomu(seed, N))
>
   endfor
>
>
   a = intarr(howmanyt) + 1
   hist norm, t, condition = a
> end
> I can't figure out why it does not work. Can you help me?
> Thanks in advance.
```

You need to say more. In what way does it not work? Where does hist norm come from? (hist norm is not in the IDL standard library)

Subject: Re: hist_norm
Posted by le.davide on Wed, 03 Nov 2010 02:10:14 GMT
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Hi, thanks for your quick answer.
I found hist_norm.pro here: http://sprg.ssl.berkeley.edu/~fastsw/idlUtil/misc/
it does not work in the sense that if I run the small code showed in
the first post I get:
% Variable is undefined: DEFINED.
% Execution halted at: HIST_NORM 69 /Users/davide/
IDLWorkspace71/Default/astron/pro/hist_norm.pro
% ISTOG 10 /Users/davide/
IDLWorkspace71/Default/Default/istog.pro
% \$MAIN\$

instead of an histogram.

On Nov 2, 9:46 pm, Paulo Penteado <pp.pente...@gmail.com> wrote: > On Nov 2, 11:28 pm, le.dav...@tiscali.it wrote:

```
>
>
>
>> Hi folks,
>> I am trying to use "hist_norm.pro" in a code like that (my first
>> time):
>
>> pro istog, howmanyt
    t = fltarr(howmanyt)
>>
>>
    N = 20.
    for k=0, howmanyt-1, 1 do begin
       t[k] = total(randomu(seed, N))
>>
    endfor
>>
>>
    a = intarr(howmanyt) + 1
     hist norm, t, condition = a
>> end
>> I can't figure out why it does not work. Can you help me?
>> Thanks in advance.
> You need to say more. In what way does it not work? Where does
> hist_norm come from? (hist_norm is not in the IDL standard library)
```

```
Subject: Re: hist_norm
Posted by penteado on Wed, 03 Nov 2010 02:16:03 GMT
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```

On Nov 3, 12:10 am, le.dav...@tiscali.it wrote:

- > Hi, thanks for your quick answer.
- > I found hist_norm.pro here:http://sprg.ssl.berkeley.edu/~fastsw/idlUtil/misc/
- > it does not work in the sense that if I run the small code showed in
- > the first post I get:
- > % Variable is undefined: DEFINED.
- > % Execution halted at: HIST_NORM 69 /Users/davide/
- > IDLWorkspace71/Default/astron/pro/hist_norm.pro
- > % ISTOG 10 /Users/davide/
- > IDLWorkspace71/Default/Default/istog.pro
- > % \$MAIN\$

>

instead of an histogram.

You seem to be missing

http://sprg.ssl.berkeley.edu/~fastsw/idlUtil/misc/defined.pr o

Subject: Re: hist_norm

Posted by le.davide on Wed, 03 Nov 2010 02:37:00 GMT

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```
This seems to be a long chain... I added the file "defined.pro", as you suggested. Hence, it turned out that I was missing something else: "hist.pro". Now I have "hist.pro" and:
```

1.when I compile it I get:

% 1 Compilation error(s) in module HIST.

```
str(nbins\_guess,form="(I)")+'bins, for'+$
```

% Syntax error.

At: /Users/davide/IDLWorkspace71/Default/astron/pro/hist.pro, Line 110

% 1 Compilation error(s) in module HIST.

2. IDL> istog, 1000

% Attempt to call undefined procedure/function: 'HIST'.

% Execution halted at: HIST_NORM 92 /Users/davide/

IDLWorkspace71/Default/astron/pro/hist_norm.pro

% ISTOG 10 /Users/davide/

IDLWorkspace71/Default/Default/istog.pro

% \$MAIN\$

On Nov 2, 10:16 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

> On Nov 3, 12:10 am, le.dav...@tiscali.it wrote:

>> Hi, thanks for your quick answer.

- >> I found hist_norm.pro here:http://sprg.ssl.berkeley.edu/~fastsw/idlUtil/misc/
- >> it does not work in the sense that if I run the small code showed in
- >> the first post I get:
- >> % Variable is undefined: DEFINED.
- >> % Execution halted at: HIST_NORM 69 /Users/davide/
- >> IDLWorkspace71/Default/astron/pro/hist_norm.pro
- >> % ISTOG 10 /Users/davide/
- >> IDLWorkspace71/Default/Default/istog.pro

>> % \$MAIN\$

>> instead of an histogram.

>

> You seem to be missing

> http://sprg.ssl.berkeley.edu/~fastsw/idIUtil/misc/defined.pr o

Subject: Re: hist_norm

Posted by penteado on Wed, 03 Nov 2010 02:47:47 GMT

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On Nov 3, 12:37 am, le.dav...@tiscali.it wrote:

- > This seems to be a long chain... I added the file "defined.pro", as
- > you suggested. Hence, it turned out that I was missing something else:
- > "hist.pro". Now I have "hist.pro" and:

> 1.when I compile it I get:

> % 1 Compilation error(s) in module HIST.

> % Syntax error.

- > At: /Users/davide/IDLWorkspace71/Default/astron/pro/hist.pro, Line
- > 110
- > % 1 Compilation error(s) in module HIST.

>

- > 2. IDL> istog, 1000
- > % Attempt to call undefined procedure/function: 'HIST'.
- > % Execution halted at: HIST_NORM 92 /Users/davide/
- > IDLWorkspace71/Default/astron/pro/hist_norm.pro
- > % ISTOG 10 /Users/davide/
- > IDLWorkspace71/Default/Default/istog.pro
- > % \$MAIN\$

Now you are missing

http://sprg.ssl.berkeley.edu/~fastsw/idlUtil/misc/str.pro

It is a fair guess that you will encounter other dependencies.

Subject: Re: hist_norm

Posted by David Fanning on Wed, 03 Nov 2010 02:48:31 GMT

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le.davide@tiscali.it writes:

- > This seems to be a long chain... I added the file "defined.pro", as
- > you suggested. Hence, it turned out that I was missing something else:
- > "hist.pro". Now I have "hist.pro" and:

Yes, it's a library. Better get them all and put them on your IDL path. :-)

Cheers.

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

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

Subject: Re: hist_norm

Posted by le.davide on Wed, 03 Nov 2010 02:51:34 GMT

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Could you tell me which is the library and where can I find it? Thanks.

On Nov 2, 10:48 pm, David Fanning <n...@dfanning.com> wrote:

- > le.dav...@tiscali.it writes:
- >> This seems to be a long chain... I added the file "defined.pro", as
- >> you suggested. Hence, it turned out that I was missing something else:
- >> "hist.pro". Now I have "hist.pro" and:

>

- > Yes, it's a library. Better get them all and put
- > them on your IDL path. :-)

>

> Cheers,

>

> David

>

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

Subject: Re: hist_norm

Posted by le.davide on Wed, 03 Nov 2010 02:54:45 GMT

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The library is "misc" (which contains all the files above)?

On Nov 2, 10:51 pm, le.dav...@tiscali.it wrote:

- > Could you tell me which is the library and where can I find it?
- > Thanks.

```
On Nov 2, 10:48 pm, David Fanning <n...@dfanning.com> wrote:
>> le.dav...@tiscali.it writes:
>>> This seems to be a long chain... I added the file "defined.pro", as
>>> you suggested. Hence, it turned out that I was missing something else:
>>> "hist.pro". Now I have "hist.pro" and:
>
>> Yes, it's a library. Better get them all and put
>> them on your IDL path. :-)
>
>> Cheers,
>
>> David
>
>> Fanning Software Consulting, Inc.
>> Coyote's Guide to IDL Programming:http://www.dfanning.com/
>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
>
```

Subject: Re: hist_norm
Posted by David Fanning on Wed, 03 Nov 2010 02:58:42 GMT
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le.davide@tiscali.it writes:

> Could you tell me which is the library and where can I find it?

Well, they are not making this easy for you, that's for sure. It looks to me like this is the "library" page:

http://sprg.ssl.berkeley.edu/fast/scienceops/fastidl.html

Cheers,

David

__

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

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

On Nov 2, 9:28 pm, le.dav...@tiscali.it wrote: > Hi folks, > I am trying to use "hist norm.pro" in a code like that (my first > time): > > pro istog, howmanyt > t = fltarr(howmanyt) > N = 20. for k=0, howmanyt-1, 1 do begin > t[k] = total(randomu(seed, N)) endfor > > a = intarr(howmanyt) + 1hist norm, t, condition = a > > end > I can't figure out why it does not work. Can you help me?

On an unrelated note, because my IDL optimization neurons cringe at unnecessary for loops, you might want to replace the first part of that with:

```
N = 20L
t = rebin(randomu(seed, N*howmanyt), howmanyt) * N
```

Whether that makes any difference depends on how large howmanyt is.

-Jeremy.

> Thanks in advance.

```
Subject: Re: hist_norm
Posted by le.davide on Wed, 03 Nov 2010 14:05:23 GMT
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```

```
On Nov 3, 1:00 am, Jeremy Bailin <astroco...@gmail.com> wrote:
> On Nov 2, 9:28 pm, le.dav...@tiscali.it wrote:
>
>
> Hi folks,
>> I am trying to use "hist_norm.pro" in a code like that (my first >> time):
```

```
>> pro istog, howmanyt
   t = fltarr(howmanyt)
    N = 20.
>>
    for k=0, howmanyt-1, 1 do begin
>>
       t[k] = total(randomu(seed, N))
    endfor
>>
   a = intarr(howmanyt) + 1
    hist norm, t, condition = a
>>
>> end
>
>> I can't figure out why it does not work. Can you help me?
>> Thanks in advance.
> On an unrelated note, because my IDL optimization neurons cringe at
> unnecessary for loops, you might want to replace the first part of
> that with:
> N = 20L
> t = rebin(randomu(seed, N*howmanyt), howmanyt) * N
> Whether that makes any difference depends on how large howmanyt is.
> -Jeremy.
```

Thanks very much. "howmanyt" is something like 10⁵.

Anyway, I downloaded all the required files (I suppose that because now I don't have any error or warning), nevertheless the graphical result is something far from the expected histogram.

Subject: Re: hist_norm
Posted by David Fanning on Wed, 03 Nov 2010 14:27:22 GMT
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le.davide@tiscali.it writes:

- > Anyway, I downloaded all the required files (I suppose that because
- > now I don't have any error or warning), nevertheless the graphical

> result is something far from the expected histogram.

I can well believe it. :-)

Depending upon why you are using Hist_Norm anyway, you might be interested in downloading yet *another* library and giving Histoplot a shot. A "normalized" histogram plot can be created by setting the FREQUENCY keyword:

Histoplot, data, /Frequency

You can learn more about it here:

http://www.dfanning.com/graphics_tips/histoplot.html

Cheers.

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

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

Subject: Re: hist_norm

Posted by jeanh on Wed, 03 Nov 2010 15:08:01 GMT

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>>> for k=0, howmanyt-1, 1 do begin

>

> Thanks very much. "howmanyt" is something like 10^5.

>

- > Anyway, I downloaded all the required files (I suppose that because
- > now I don't have any error or warning), nevertheless the graphical
- > result is something far from the expected histogram.

Be careful with the data type... you need longs, not integers! (for k and howmanyt)

Jean

Subject: Re: hist_norm

Posted by penteado on Wed, 03 Nov 2010 15:51:28 GMT

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On Nov 3, 12:27 pm, David Fanning <n...@dfanning.com> wrote:

- > le.dav...@tiscali.it writes:
- >> Anyway, I downloaded all the required files (I suppose that because
- >> now I don't have any error or warning), nevertheless the graphical
- >> result is something far from the expected histogram.

>

> I can well believe it. :-)

>

- > Depending upon why you are using Hist_Norm anyway, you
- > might be interested in downloading yet *another* library
- > and giving Histoplot a shot. A "normalized" histogram
- > plot can be created by setting the FREQUENCY keyword:

I found it curious that though the mentioned hist.pro (not the hist.pro from JHUAPL, by the way), though using histogram() (as one would expect) comes with the comment

"This is a radical departure from the IDL HISTOGRAM function, which is for something else, as far as anyone can tell."

Subject: Re: hist_norm

Posted by David Fanning on Wed, 03 Nov 2010 16:04:57 GMT

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Paulo Penteado writes:

- > I found it curious that though the mentioned hist.pro (not the
- > hist.pro from JHUAPL, by the way), though using histogram() (as one
- > would expect) comes with the comment

>

- > "This is a radical departure from the IDL HISTOGRAM function, which is
- > for something else, as far as anyone can tell."

I think it is the result of frustration. I felt exactly the same way when I was building the Histoplot procedure. :-)

Cheers,

David

--

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