Subject: ARRAYS
Posted by mallozzi on Thu, 08 Sep 1994 15:04:30 GMT
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I must be missing something simple, but I sometimes find myself needing to
concatinate arrays as follows:

```
x = FINDGEN(10)
y = FINDGEN(4,20)
z = [x, y(1,*)]
```

This won't work because IDL sees y(1,*) as a 2-d array, and x is 1-d.
Is there an easy way to concatenate two "vectors" without looping through
the y-array and extracting the approriate elements like this:

```
temp = FLTARR(N_ELEMENTS(y))
for i=0,N_ELEMENTS(y)-1 do temp(i) = y(1,i)
z = [x,temp]
```

Thanks
Bob Mallozzi
mallozzi@ledzep.msfc.nasa.gov

Subject: Re: Arrays
Posted by David Fanning on Tue, 29 Jun 2004 17:32:05 GMT
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Rafael Loos writes:

> The problem is when I try to visualize the SECOND column (492515.080)
> ... what I see is just the numbers before de "point" and the point (eg
> 492515.) all the numbers after I can not see ...
> With the other columns that is not a problem ... just with the second
> ... What am I doing wrong ?

There is nothing wrong with what you have shown
us. How, exactly, are you trying to "visualize"
this second column?

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Arrays
Posted by Craig Markwardt on Tue, 29 Jun 2004 18:48:44 GMT
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rats@mail.geog.uvic.ca (Rafael Loos) writes:
> Hi, I am new with IDL and I am having some problems with arrays.
> I have a file with 4 column and 5,607,515 rows.
>
> Example of one line: 3 492515.080 5506165.090 98.320
>
> I am separating all the columns in different arrays (1, 5607515)
>
> The problem is when I try to visualize the SECOND column (492515.080)
> ... what I see is just the numbers before de "point" and the point (eg
> 492515.) all the numbers after I can not see ...
> With the other columns that is not a problem ... just with the second
> ... What am I doing wrong ?

...
> data = FltArr(4, 5607515)
...

Have you considered that your numbers require double precision (>7
digits), and you are using only single precision floating point (< 7
digits)?

Craig

--
 ---------- ----------
Craig B. Markwardt, Ph.D. EMAIL: craigmnet@REMOVEcow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
 ---------- ----------

Subject: Re: Arrays
Posted by rats on Tue, 29 Jun 2004 23:18:30 GMT
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David Fanning <davidf@dfanning.com> wrote in message
news:<MPG.1b4b557d4acd42de9897ba@news.frii.com>...
> Rafael Loos writes:
>
>> The problem is when I try to visualize the SECOND column (492515.080)
>> ... what I see is just the numbers before de "point" and the point (eg
>> 492515.) all the numbers after I can not see ...
>> With the other columns that is not a problem ... just with the second

>> ... What am I doing wrong ?
>
> There is nothing wrong with what you have shown
> us. How, exactly, are you trying to "visualize"
> this second column?
>
> Cheers,
>
> David

Thank you for the message, David.

I am saving all the values from the array into a txt file.
I see that problem when I open the txt file.
But all the other txt files are correct. Only the second with the
LATitudes values that are incorrect(492515.)
Even when I try anything like a MEAN function on the array this
problem occurs only with the second column ... All the others are
working perfeclty.

Thank you again,
Rafael

Subject: Re: Arrays
Posted by David Fanning on Wed, 30 Jun 2004 00:26:10 GMT
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Rafael Loos writes:

> Hi, I am new with IDL and I am having some problems with arrays.
> I have a file with 4 column and 5,607,515 rows.
>
> Example of one line: 3 492515.080 5506165.090 98.320
>
> I am separating all the columns in different arrays (1, 5607515)
>
> The problem is when I try to visualize the SECOND column (492515.080)
> ... what I see is just the numbers before de "point" and the point (eg
> 492515.) all the numbers after I can not see ...
> With the other columns that is not a problem ... just with the second
> ... What am I doing wrong ?

Well, I don't know why your problems are confined to just
the second column, but I agree with Craig that you need
to make these values double precision. Note this experiment:

IDL> d='3 492515.080 5506165.090 98.320'

```
IDL> a=fltarr(4)
IDL> print, a[1]
      492515.
```

And, then:

```
IDL> a=dblarr(4)
IDL> reads, d, a
IDL> print, a[1]
       492515.08
```

And, especially,

```
IDL> print, a[1], format='(F20.4)'
   492515.0800
```

You might find this article useful:

http://www.dfanning.com/tips/double.html

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Arrays
Posted by David Fanning on Wed, 30 Jun 2004 00:27:22 GMT
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David Fanning writes:

> Well, I don't know why your problems are confined to just
> the second column, but I agree with Craig that you need
> to make these values double precision. Note this experiment:
>
> IDL> d='3 492515.080 5506165.090 98.320'
> IDL> a=fltarr(4)
> IDL> print, a[1]
>   492515.

Whoops! Forgot that READS in there!

```
IDL> d='3 492515.080 5506165.090 98.320'
IDL> a=fltarr(4)
```

IDL> reads, d, a
IDL> print, a[1]
      492515.

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Arrays
Posted by rats on Wed, 30 Jun 2004 15:43:45 GMT
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David Fanning <davidf@dfanning.com> wrote in message
news:<MPG.1b4bb6d9705c81819897bc@news.frii.com>...
> David Fanning writes:
>
>> Well, I don't know why your problems are confined to just
>> the second column, but I agree with Craig that you need
>> to make these values double precision. Note this experiment:
>>
>> IDL> d='3 492515.080 5506165.090 98.320'
>> IDL> a=fltarr(4)
>> IDL> print, a[1]
>>   492515.
>
> Whoops! Forgot that READS in there!
>
> IDL> d='3 492515.080 5506165.090 98.320'
> IDL> a=fltarr(4)
> IDL> reads, d, a
> IDL> print, a[1]
>   492515.
>
> Cheers,
>
> David

Thanks David and Craig ... Now with double precision it is working ...

Rafael
