Subject: Re: Access array elements with String Posted by humanumbrella on Mon, 14 Jul 2008 15:49:24 GMT View Forum Message <> Reply to Message

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On Jul 14, 11:41 am, Bob Crawford <Snowma...@gmail.com> wrote:
> On Jul 14, 11:16 am, humanumbre...@gmail.com wrote:
>
>
>> Hello all,
>
>> Another issue - perhaps one of you has encountered this before. It's
>> sort of a neat problem. I'm attempting to build array subscripts on
>> the fly based on user input. IE the number of static/variable elements
>> is changing, which allows the user to pick different axes to plot.
>> Nevermind all that.
>> Anyway, let's say a user wants a particular axis to be variable. In
>> this case, the dataset array where I'm attempting to pull values from
>> would contain a *, to get all these elements. Unfortunately, I do not
>> know in advance which dimension of the array I will be using, so I am
>> attempting to build the subscript based on a string.
>
>> This was my original thought:
>> a = dindgen(5,5,5)
>> b = ['3', '3', '3']
>> print, a[b]
>> but this just returns a[3], a[3], a[3]
>
>> So, I figured I'd do it this way:
>> c = '3'
>> print, a[c,c,c] -- This works!
>> Now for the gold,
>> d = '*'
>> print, a[c,c,d] -- error - can't convert string-> long
>> so I get an idea-- maybe I'll just use the ascii value for the
>> asterisk.
\rightarrow d = String(42b)
>> print, a[c,d,d] -- error - can't convert string-> long
>
>> Any thoughts?
>> Thanks in advance
>> --Justin
> Why try to force the '*' - might not SIZE be more useful?
> e.g.
> s=SIZE(a)
```

> print, a[c,c,s[3]]; for a[c,c,d]
> print, a[c,s[2],s[3]]; for a[c,d,d]

Hey Bob,

Thanks for the post!

I think I may need to elaborate a bit more -I need the entire row of the multi-dimensional array.

So, for example, let's say I have an array that is 30 x 20 x 50
I will need *,0,0 to plot the first 30 values
but I could just as easily need 0,*,0 or 0,0,* Depending on user input, so I can't anticipate that in advance.

Cheers, --Justin