
Subject: Re: string conversion & integer

Posted by [David Fanning](#) on Thu, 08 Nov 2007 17:37:35 GMT

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metachronist writes:

```
> Okay folks, I am sure this has been discussed many times already.
> Maybe trivial/silly... Anyway, to make sure:
>
> Problem:
> -----
>> print,where(X.dd eq dd_d)
>      -1
> I think it's got to do with internal representation:
>
> dd_d is originally read in as "string", for ease of concatenation and
> constructing filename, along with year and month etc. Say, for
> example, as '07'
>
> But field "dd" in X.dd is defined in the format statement as:
> dd:0L , say for example, from 1 to 10.
> So there is a type mismatch. I tried:
>
>> print, where(X.dd eq fix(dd_d,type=3))
>      -1
>> print, where(X.dd eq long(dd_d))
>      -1
>
> No luck. Is there a way out "other than defining dd_d as long
> originally and make excessive use of string/strtrim/strmid etc while
> constructing filenames?
```

Well, here is an experiment:

```
IDL> x = {dd:indgen(10)}
IDL> y = '8'
IDL> print, where(x.dd eq fix(y))
      8
```

I think maybe you are making assumptions that just ain't true in your code. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Subject: Re: string conversion & integer
Posted by [rkombiyil](#) on Thu, 08 Nov 2007 23:27:07 GMT
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On Nov 9, 2:37 am, David Fanning <da...@dfanning.com> wrote:
> metachronist writes:
>> Okay folks, I am sure this has been discussed many times already.
>> Maybe trivial/silly... Anyway, to make sure:
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>> Problem:
>> -----
>>> print,where(X.dd eq dd_d)
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>
>> No luck. Is there a way out "other than defining dd_d as long
>> originally and make excessive use of string/strtrim/strmid etc while
>> constructing filenames?
>
> Well, here is an experiment:
>
> IDL> x = {dd:indgen(10)}
> IDL> y = '8'
> IDL> print, where(x.dd eq fix(y))
> 8
>
> I think maybe you are making assumptions that just
> ain't true in your code. :-)
>
> Cheers,
>
> David

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

Thank you for your reply. I am glad the reply was gentle ;-)

This is really weird! And I can't figure out what might be wrong. I pass `dd_d` via call to a procedure, wherein it gets stored as `e_dd`. It is getting passed alright, but I try to do the conversion within the procedure and it fails. Am I doing something so fundamentally wrong here?! Please see:

```
;-----  
pro test,e_dd  
print,e_dd,size(e_dd,/type)  
x={dd:[1l,1l,2l,2l,4l,4l,4l,5l,5l,6l,6l,7l,7l,7l,8l,8l,8l,9l,9l]}  
print,where(x.dd eq fix(e_dd))  
end
```

```
close,/all  
numdays=""  
openr,ilun,'test.dat',/get_lun  
readf,ilun,numdays  
dd_d=strarr(numdays)  
readf,ilun,dd_d  
free_lun,ilun  
test,dd_d  
end  
;-----[/sample_code]-----
```

```
=====
```

and 'test.dat' has 2 lines:

```
1  
07
```

```
=====
```

I am wondering why the above doesn't work? Still returns -1, whereas I "would expect" that it will return locations of 7's in the array ?!! :-

(Any thoughts?

Thanks,

~r

Subject: Re: string conversion & integer
Posted by [David Fanning](#) on Thu, 08 Nov 2007 23:45:43 GMT
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metachronist writes:

> Thank you for your reply. I am glad the reply was gentle ;-)

Geez, a guy has an argument with his wife and the whole world holds it against him. I SAID I was sorry! :-(

> This is really weird! And I can't figure out what might be wrong. I
> pass dd_d via call to a procedure, wherein it gets stored as e_dd. It
> is getting passed alright, but I try to do the conversion within the
> procedure and it fails. Am I doing something so fundamentally wrong
> here?!

Ah, this is a FAMOUS gotcha! See this article:

http://www.dfanning.com/misc_tips/noidea.html

Change this line:

```
print,where(x.dd eq fix(e_dd))
```

To this,

```
print,where(x.dd eq fix(e_dd[0]))
```

and you will get what you expect. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Subject: Re: string conversion & integer

Posted by [rkombiyil](#) on Thu, 08 Nov 2007 23:59:32 GMT

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On Nov 9, 8:45 am, David Fanning <da...@dfanning.com> wrote:

> metachronist writes:

>> Thank you for your reply. I am glad the reply was gentle ;-)

>

> Geez, a guy has an argument with his wife and the whole

> world holds it against him. I SAID I was sorry! :-(

>

>> This is really weird! And I can't figure out what might be wrong. I

>> pass dd_d via call to a procedure, wherein it gets stored as e_dd. It

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> Ah, this is a FAMOUS gotcha! See this article:
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> Change this line:
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> print,where(x.dd eq fix(e_dd))
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> To this,
>
> print,where(x.dd eq fix(e_dd[0]))
>
> and you will get what you expect. :-)
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>

Thank you David, for taking time off to reply. That solves the problem
-- at least for now :) Onward to more generalizations!
Cheers,
~r
