
Subject: string to array conversion

Posted by [Karsten Schmidt](#) on Wed, 02 Aug 2000 07:00:00 GMT

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

Hi all,

I want to create very long strings (300 characters and more), but sometimes IDL makes an array with three or four dimensions. How can I stop this conversion ?

Thanks for answer

Karsten

Subject: Re: string to array conversion

Posted by [Alex Schuster](#) on Wed, 09 Aug 2000 07:00:00 GMT

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

Karsten Schmidt wrote:

> I want to create very long strings (300 characters and more), but
> sometimes IDL makes an array with three or four dimensions. How can I
> stop this conversion ?

Can you give us an example of what exactly you are doing? I did not encounter this behaviour before, strings have always worked fine for me.

```
IDL> help, string( bytarr( 20000 ) + 65b )  
<Expression>  STRING  =  
'AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA'...
```

Alex

--

Alex Schuster Wonko@weird.cologne.de
alex@pet.mpin-koeln.mpg.de

PGP Key available

Subject: Re: string to array conversion

Posted by [davidf](#) on Thu, 10 Aug 2000 07:00:00 GMT

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

Karsten Schmidt (k.schmidt@vermes.fh-oldenburg.de) writes:

> Hi Alex, thanks for your answer,
> I want to change the stringlength or produce new strings (delete and add
> some words), example:
>
> a=string('||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||')
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||')

```

>
> print,strlen(a)
>      272
> help,a
> A      STRING  =
> '!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!'...
> that's alright,
> but if I write:
> word=string('long strings are my problem')
> together=string(word,word,word,word,word,word,word)
> print,strlen(together)
>      162      27
> help,together ==>  TOGETHER      STRING  = Array[2]
>
> What's happen and how can I stop it ?

```

If you want to string words together, you should use the + sign:

```

IDL> word1 = 'Hello '
IDL> word2 = 'Karsten'
IDL> word3 = ': How are you?'
IDL> sentence = word1 + word2 + word3
IDL> Print, sentence

```

Hello Karsten: How are you?

Cheers,

David

--

David Fanning, Ph.D.
 Fanning Software Consulting
 Phone: 970-221-0438 E-Mail: davidf@dfanning.com
 Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
 Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: string to array conversion
 Posted by [Karsten Schmidt](#) on Thu, 10 Aug 2000 07:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi Alex, thanks for your answer,
 I want to change the stringlength or produce new strings (delete and add some words), example:

```

a=string('!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!')

```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%')
```

```
print,strlen(a)
```

```
272
```

```
help,a
```

```
A      STRING  =
```

```
'%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%'...
```

```
that's alright,
```

```
but if I write:
```

```
word=string('long strings are my problem')
```

```
together=string(word,word,word,word,word,word,word)
```

```
print,strlen(together)
```

```
162      27
```

```
help,together ==>  TOGETHER      STRING  = Array[2]
```

What's happen and how can I stop it ?

Karsten

Alex Schuster schrieb:

> Karsten Schmidt wrote:

>

>> I want to create very long strings (300 characters and more), but

>> sometimes IDL makes an array with three or four dimensions. How can I

>> stop this conversion ?

>

> Can you give us an example of what exactly you are doing? I did not

> encounter this behaviour before, strings have always worked fine for me.

>

> IDL> help, string(bytarr(20000) + 65b)

> <Expression> STRING =

> 'AA'...

>

> Alex

> --

> Alex Schuster Wonko@weird.cologne.de PGP Key available

> alex@pet.mpin-koeln.mpg.de

Subject: Re: string to array conversion

Posted by [Martin Schultz](#) on Fri, 11 Aug 2000 07:00:00 GMT

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

Karsten Schmidt wrote:

>

> Hi Alex, thanks for your answer,

```
> I want to change the stringlength or produce new strings (delete and add  
> some words), example:  
>  
> a=string('|||||' )  
'|||||'  
>  
> print,strlen(a)  
>      272  
> help,a  
> A          STRING   =  
> '|||||'...  
> that's alright,  
> but if I write:  
> word=string('long strings are my problem')  
> together=string(word,word,word,word,word,word,word)  
> print,strlen(together)  
>      162      27  
> help,together ==>    TOGETHER     STRING   = Array  
>  
> What's happen and how can I stop it ?  
>  
> Karsten
```

Hallo Karsten,

another possible solution is the format option for the string function, see example below.

Cheers,
Martin

```
; generate two example strings of 300 byte length each
b=bytarr(300)+65B
c=bytarr(300)+69B
bs=string(b)
help,bs
; BS          STRING  =
'AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA'...
print,strlen(bs)
;          300
cs=string(c)
```

```
; if you use only the string function, IDL will generate a string array
ds=string(bs,cs)
help,ds & print,strlen(ds)
; DS          STRING    = Array[2]
;    300      300
```

```
; however, if you add the format option, you can concatenate the strings
ds=string(bs,cs,format='(A,A)')
help, ds & print, strlen(ds)
; DS          STRING    =
'AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA'...
;
600
```

..

[illegible]

Subject: Re: string to array conversion
Posted by [R.Bauer](#) on Fri, 11 Aug 2000 07:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

David Fanning wrote:

> Karsten Schmidt (k.schmidt@vermes.fh-oldenburg.de) writes:

```
>> Hi Alex, thanks for your answer,  
>> I want to change the stringlength or produce new strings (delete and add  
>> some words), example:
```

Dear Karsten,

this is our solution of a `replace_string` routine.

For further routines copyright and licence.
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

The routine itself.
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/replace_string.tar.gz

The routine as loadable module.
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/replace_string.sav

: EXAMPLE:

```

; help,replace_string('Dies ist ein Test',' ','_')
; <Expression>  STRING  = 'Dies_ist_ein_Test'
; help,replace_string('Dies ist ein Test',' ','_',pos=5)
; <Expression>  STRING  = 'Dies_ist_ein_Test'
; help,replace_string('Dies ist ein Test',' ','_',pos=5,no=1)
; <Expression>  STRING  = 'Dies_ist_ein_Test'
; help,replace_string('Dies ist ein Test','ist','ist')
; <Expression>  STRING  = 'Dies ist ein Test'
; help,replace_string('Dies ist ein Test, ist ein','ist','ist nicht')
; <Expression>  STRING  = 'Dies ist nicht ein Test, ist nicht ein'
; help,replace_string('\\\\\\\\\\\\\\\\','\\','/')
; <Expression>  STRING  = '/////////'
;
help,replace_string(['"..\\idl_html\\idl_work_cat.htm"],'cat','cat_org')
; <Expression>  STRING  = ['"..\\idl_html\\idl_work_cat_org.htm"]'
; print,replace_string(['12:33:00','12:33:00','12:33:00'],':', ' ')
; 123300 123300 123300
;
;
print,replace_string(['12:33:00','12:33:00','12:33:00'],':', ' ',pos=5)
; 12:3300 12:3300 12:3300
; print,replace_string( 'asdf__ertz_j','__',' ')
; asdf_ertz_j
;
;
print,replace_string(['12:33:00','12:33:00','12:33:00'],':', ' ',pos=5,count=c),c
; 12:3300 12:3300 12:3300
; 3
;
;
print,replace_string(['12:33:00','12:33:00','12:33:00'],':', ' ',count=c),c
; 123300 123300 123300
; 6

>>
>> a=string('%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%')
>>
>> print,strlen(a)
>>      272
>> help,a
>> A          STRING  =
>> '%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%'...
>> that's alright,
>> but if I write:
>> word=string('long strings are my problem')

>> together=string(word,word,word,word,word,word,word)
>> print,strlen(together)
>>      162      27
>> help,togehter ==>  TOGETHER      STRING  = Array[2]

```

```
>>
>> What's happen and how can I stop it ?
>
> If you want to string words together, you should
> use the + sign:
>
> IDL> word1 = 'Hello '
> IDL> word2 = 'Karsten'
> IDL> word3 = ': How are you?'
> IDL> sentence = word1 + word2 + word3
> IDL> Print, sentence
>
>   Hello Karsten: How are you?
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting
> Phone: 970-221-0438 E-Mail: davidf@dfanning.com
> Coyote's Guide to IDL Programming: http://www.dfanning.com/
> Toll-Free IDL Book Orders: 1-888-461-0155
```
