
Subject: Re: function to convert string to array???

Posted by [Chris McCarthy](#) on Thu, 16 Mar 1995 03:00:51 GMT

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davis@space.mit.edu wrote:

>
> Hi,
>
> I was wondering if there is a routine that will read a string and convert
> it to an array of floats. ...

Have you tried reads?

```
a = 0.d0 & b = 0.d0 & c = 0.d0  
reads,'9.32323      24323.233      22.124235555d-14',a,b,c  
print,c,b,a
```

-chris

Subject: Re: function to convert string to array???

Posted by [davis](#) on Fri, 17 Mar 1995 04:58:53 GMT

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In article <3k89l3\$2ap@news.csus.edu>, Chris McCarthy <chris@quark.sfsu.edu> writes:

: davis@space.mit.edu wrote:

: >
: > Hi,
: >
: > I was wondering if there is a routine that will read a string and convert
: > it to an array of floats. ...

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: Have you tried reads?

:
: a = 0.d0 & b = 0.d0 & c = 0.d0
: reads,'9.32323 24323.233 22.124235555d-14',a,b,c
: print,c,b,a

The code that I posted uses `reads'. The problem is that you have to determine how many floats the string is composed of and then allocate an array of that size.

--John

Subject: Re: function to convert string to array???

Posted by [dnguyen](#) on Fri, 17 Mar 1995 16:24:55 GMT

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In article <3k89l3\$2ap@news.csus.edu>, Chris McCarthy <chris@quark.sfsu.edu> says:

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> davis@space.mit.edu wrote:
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> a = 0.d0 & b = 0.d0 & c = 0.d0
> reads,'9.32323      24323.233      22.124235555d-14',a,b,c
> print,c,b,a
>
>
> -chris
>
```

Here is another way to do it :

```
wave > a = ' 100. , 200. , 300. , 400. '
wave > a = '[' + a + ']'
wave > z = execute('myarray = '+a)
wave > info,myarray
myarray          FLOAT = ARRAY(4)
```

Derrick

Subject: Re: function to convert string to array???

Posted by [metcalf](#) on Fri, 17 Mar 1995 23:06:49 GMT

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In article <3kb4ud\$jv0@senator-bedfellow.MIT.EDU>, davis@space.mit.edu writes:

```
|> In article <3k89l3$2ap@news.csus.edu>, Chris McCarthy <chris@quark.sfsu.edu> writes:
|> : davis@space.mit.edu wrote:
|> : >
|> : > Hi,
|> : >
|> : > I was wondering if there is a routine that will read a string and convert
|> : > it to an array of floats. ...
|> :
|> : Have you tried reads?
```

```

|> :
|> : a = 0.d0 & b = 0.d0 & c = 0.d0
|> : reads,'9.32323      24323.233      22.124235555d-14',a,b,c
|> : print,c,b,a
|>

```

How about,

```

IDL> s = ' 9.32323      24323.233      22.124235555d-14 '
IDL> x = float(splitstr(strcompress(strtrim(s,2)),','))

```

Where

```

;+
;NAME:
;  SPLITSTR
;PURPOSE:
;  Split a string into an array at specified character boundary
;CATEGORY:
;CALLING SEQUENCE:
;  array = splitstr(string,character)
;INPUTS:
;  string = string to be split
;  character = character to split string on
;OPTIONAL INPUT PARAMETERS:
;KEYWORD PARAMETERS
;OUTPUTS:
;  array = string array
;COMMON BLOCKS:
;SIDE EFFECTS:
;RESTRICTIONS:
;  character must be a single character string, e.g. ' ' or 'a'
;PROCEDURE:
;EXAMPLES:
;  array = splitstr('Hi There',' ')
;  array(0) is 'Hi'
;  array(1) is 'There'
;MODIFICATION HISTORY:
;  T. Metcalf 1994-11-10
;-

```

function splitstr,line,char

```

  cline = char+string(line(0))+char
  place = where(byte(cline) eq (byte(char))(0))
  nplace = n_elements(place)

```

```
strarray = strarr(nplace-1L)
strarray(0) = strmid(cline,place(0)+1L,place(1)-place(0)-1L)
for i = 1L,nplace-2L do begin
    strarray(i) = strmid(cline,place(i)+1L,place(i+1L)-place(i)-1L)
endfor
```

```
return,strarray
```

```
end
```
