
Subject: READ array from a file

Posted by [Sapna Mishra](#) on Mon, 25 Apr 2016 14:09:23 GMT

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Hello All,

I have a file say:

Detail.txt with contents

name [1,2,3,4] [50.1,60.2,3.1,33.2]

I want to read this file, such as,

readcol,'Detail.txt',f='(A,I,F)',name,arr1,arr2

Such that I should get:

arr1[0]=1

arr2[0]=50.1

Can It be done?

Or other way out?

Subject: Re: READ array from a file

Posted by [Jeremy Bailin](#) on Thu, 28 Apr 2016 17:28:06 GMT

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On Monday, April 25, 2016 at 9:09:25 AM UTC-5, Sapna Mishra wrote:

> Hello All,

>

> I have a file say:

> Detail.txt with contents

>

> name [1,2,3,4] [50.1,60.2,3.1,33.2]

>

> I want to read this file, such as,

>

> readcol,'Detail.txt',f='(A,I,F)',name,arr1,arr2

>

> Such that I should get:

> arr1[0]=1

> arr2[0]=50.1

>

> Can It be done?

> Or other way out?

You're probably going to have to parse something like that yourself. Do you know beforehand how many elements each array will have?

-Jeremy.

Subject: Re: READ array from a file

Posted by [zacharyanorman](#) on Fri, 29 Apr 2016 04:42:16 GMT

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If you only have spaces ONLY between the name and the two arrays, then you can read the text file as a string array with:

```
;pre-allocate string array
infile = 'C:\some\file.txt'
nlines = file_lines(infile)
strings = strarr(nlines)
openr, lun, infile, /get_lun
readf, lun, strings
free_lun, lun
```

Then you can split each line with:

```
splitline = strsplit(strings[0], /extract)
name = splitline[0]
arr1 = splitline[2]
arr2 = splitline[3]
```

I'll let you figure out the rest for how you get the string representation of the arrays into actual arrays.

Subject: Re: READ array from a file

Posted by [Sapna Mishra](#) on Sun, 01 May 2016 07:24:30 GMT

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On Friday, April 29, 2016 at 10:12:18 AM UTC+5:30, Zachary Norman wrote:

> If you only have spaces ONLY between the name and the two arrays, then you can read the text file as a string array with:

```
>
> ;pre-allocate string array
> infile = 'C:\some\file.txt'
> nlines = file_lines(infile)
> strings = strarr(nlines)
> openr, lun, infile, /get_lun
> readf, lun, strings
```

> free_lun, lun
>
>
> Then you can split each line with:
>
>
> splitline = strsplit(strings[0], /extract)
> name = splitline[0]
> arr1 = splitline[2]
> arr2 = splitline[3]
>
>
> I'll let you figure out the rest for how you get the string representation of the arrays into actual arrays.

Yeah I tried this worked fine...now the problem is
arr1= splitline[1] is an string array i don't know how to convert it into float array.
i tried with..
arr1= fltarr(splitline[1])
but its showing invalid type conversion. Any way out???

Subject: Re: READ array from a file
Posted by [Helder Marchetto](#) on Sun, 01 May 2016 07:57:54 GMT
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Use float() for type conversion.

Cheers,
Helder

Subject: Re: READ array from a file
Posted by [Sapna Mishra](#) on Sun, 01 May 2016 08:29:25 GMT
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On Sunday, May 1, 2016 at 1:27:57 PM UTC+5:30, Helder wrote:

> Use float() for type conversion.
>
> Cheers,
> Helder

Even then it is not working.

Subject: Re: READ array from a file

Posted by [Helder Marchetto](#) on Sun, 01 May 2016 09:35:23 GMT

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What's the error now?

I guess that you are converting one element of the array and wonder why you don't get an array.
If you know how many elements you have (let's call it nPts), you can do something like this:

```
arr1 = fltarr(nPts)
```

In the loop of i:

```
arr1[i] = float(split_string[2])
```

Cheers, Helder
