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Subject: Writing 2 arrays of a different type into one text file

Posted by [Kai Heckel](#) on Fri, 23 Oct 2015 08:10:36 GMT

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Hello!

Is it possible to write 2 arrays into one text file?

What I have are 2 arrays: 1) float, 2) string.

I would like to write the string array into the 1st column and the float array into the 2nd column. Is this somehow possible?

Thanks in advance

Cheers,  
Kai

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Subject: Re: Writing 2 arrays of a different type into one text file

Posted by [Helder Marchetto](#) on Fri, 23 Oct 2015 09:25:35 GMT

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On Friday, October 23, 2015 at 10:10:38 AM UTC+2, Kai Heckel wrote:

> Hello!

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> I would like to write the string array into the 1st column and the float array into the 2nd column. Is this somehow possible?

>

> Thanks in advance

>

> Cheers,

> Kai

Yes.

```
arrayFloat = randomu(s, 10)
```

```
arrayStrings = strtrim(findgen(10),2)
```

```
fileName = 'testFileOutput.txt'
```

```
get_lun, fileUnit
```

```
openw, fileUnit, fileName
```

```
printf, fileUnit, transpose(arrayStrings+', '+string(arrayFloat,FORMAT='(f0.3)'))
```

```
close, fileUnit
```

```
free_lun, fileUnit
```

Play a bit around with string() and the format keyword. A way or another, you will get what you want (constant width for the columns or number of decimals, separator, ...).

Cheers,

Helder

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Subject: Re: Writing 2 arrays of a different type into one text file

Posted by [Kai Heckel](#) on Fri, 23 Oct 2015 11:52:56 GMT

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Am Freitag, 23. Oktober 2015 11:25:37 UTC+2 schrieb Helder:

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>> Kai

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> free\_lun, fileUnit

>

> Play a bit around with string() and the format keyword. A way or another, you will get what you want (constant width for the columns or number of decimals, separator, ...).

>

> Cheers,

> Helder

Thanks Helder!

But I'd like to have the strings in the 1st column and the according float value in the 2nd column...  
I looked it up under FORMAT but I couldn't find the right thing. Do you have a solution for this?

Cheers,

Kai

---

---

Subject: Re: Writing 2 arrays of a different type into one text file

On Friday, October 23, 2015 at 1:52:59 PM UTC+2, Kai Heckel wrote:

> Am Freitag, 23. Oktober 2015 11:25:37 UTC+2 schrieb Helder:

>> On Friday, October 23, 2015 at 10:10:38 AM UTC+2, Kai Heckel wrote:

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>

> Cheers,

> Kai

Hi Kai,

did you try the solution I gave? It gives *exactly* what you're asking for. Of course you need to have strings in the "arrayStrings" and numbers in the "arrayFloat"...

Then you get two columns, that in my case look like:

0.000000, 0.590

1.000000, 0.135

```
2.00000, 0.196
3.00000, 0.020
4.00000, 0.190
5.00000, 0.604
6.00000, 0.286
7.00000, 0.527
8.00000, 0.510
9.00000, 0.570
```

Make sure you have two arrays with the same number of elements:

```
IDL> help, arrayStrings
ARRAYSTRINGS  STRING  = Array[10]
IDL> help, arrayFloat
ARRAYFLOAT    FLOAT   = Array[10]
```

Cheers,  
Helder

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Subject: Re: Writing 2 arrays of a different type into one text file  
Posted by [Kai Heckel](#) on Fri, 23 Oct 2015 13:57:32 GMT

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Am Freitag, 23. Oktober 2015 14:13:54 UTC+2 schrieb Helder:

> On Friday, October 23, 2015 at 1:52:59 PM UTC+2, Kai Heckel wrote:

>> Am Freitag, 23. Oktober 2015 11:25:37 UTC+2 schrieb Helder:

>>> On Friday, October 23, 2015 at 10:10:38 AM UTC+2, Kai Heckel wrote:

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>>> openw, fileUnit, fileName

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```

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>>> Cheers,
>>> Helder
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> Make sure you have two arrays with the same number of elements:
> IDL> help, arrayStrings
> ARRAYSTRINGS  STRING  = Array[10]
> IDL> help, arrayFloat
> ARRAYFLOAT    FLOAT   = Array[10]
>
> Cheers,
> Helder

```

I tried it but the separation didn't work. I solved the case by using 'WIDTH=2' when using the 'OPENW' command.

Thank you very much Helder and enjoy your weekend!

Cheers,  
Kai

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