Subject: Re: Extracting arrays into txt files
Posted by txominhermos on Thu, 03 Nov 2005 11:02:06 GMT
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Note: the arrays are quite bigs (3000 x 8000)

Subject: Re: Extracting arrays into txt files
Posted by Norbert Hahn on Thu, 03 Nov 2005 11:10:31 GMT
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txominhermos@hotmail.com wrote:

> Hi!
>
>
>
> I would like to know how to extract a full array into a txt file,
> maintaining the samples and collums format, to export it to a excel
> file or similar.

The best format for exporting data is CSV. Numbers are in ASCII,
separated by either comma, semicolon or TAB, whatever you like.
The importing program should be told the separator you used
during export and maybe some more hints if the data isn't plain
integer or fixed point data. Hints are needed to date/time values,
currency values and such.

Text may be exported as well and each cell should be enclosed in
quotes.

To maintain the row/column of your arry you need to cycle thru
you data line by line. You may need to specify a format with the
print statement to avoid a new line after 80 or 256 bytes of
output as the receiving program will start a new line of input
if it detects a line feed in the data.

Norbert

Subject: Re: Extracting arrays into txt files
Posted by Peter Clinch on Thu, 03 Nov 2005 11:19:32 GMT
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txominhermos@hotmail.com wrote:

> I would like to know how to extract a full array into a txt file,

> maintaining the samples and collums format, to export it to a excel
> file or similar.

Programs like Excel can read ASCII text okay so as long as your array is printed out with some sort of commonly used text separator (like white space) there shouldn't be any problem.

You can do this very easily from IDL with PRINTF, so something like

```
array=indgen(10,10) ; here is an array you can use as a test
openw,1,'idl.txt'   ; open a file for writing
printf,1,array      ; write the array to the text file
close,1             ; close the file
```

If you open idl.txt in notepad or similar you'll see a plain text representation of your array in rows and columns. If you use File | Open in Excel it will ask you a couple of questions about the format but it will have a correct guess so you can just go with the defaults, and then your array will be in row and column format.

That's for 1 and 2d arrays. Obviously Excel won't be able to deal with higher dimensional data quite as easily as IDL...

Pete.
--
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Subject: Re: Extracting arrays into txt files
Posted by txominhermos on Thu, 03 Nov 2005 11:40:01 GMT
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Hi Norbert,

Thank u for the answer.

The main problem is that printing with printf, the samples are cut and continued in a diferent line. So, is it possible to print the document with only one order or do I have to use loops and play with the format, inserting the tabs or commas?

Thanks again

Txomin

Subject: Re: Extracting arrays into txt files
Posted by txominhermos on Thu, 03 Nov 2005 11:42:15 GMT
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and thanks to peter as well!

Subject: Re: Extracting arrays into txt files
Posted by Peter Clinch on Thu, 03 Nov 2005 12:18:51 GMT
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txominhermos@hotmail.com wrote:

> The main problem is that printing with printf, the samples are cut and
> continued in a diferent line.

By default, yes. I found out the default wrap is 10 fields, which
corresponded beautifully with my 10 x 10 test array. D'oh!

> So, is it possible to print the document
> with only one order or do I have to use loops and play with the format,
> inserting the tabs or commas?

You can explicitly define the format codes for the write. How you can
do that is shown in the Help, easiest to get there from the Printf help
and there's a link at Format (at least there is in 6.2...)

Something like

printf, 1, format='(50(" ", I, " ")), array

Will print 50 numbers to a line before wrapping. I don't think you need
to use loops.

Pete.
--
Peter Clinch   Medical Physics IT Officer
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Subject: Re: Extracting arrays into txt files
Posted by peter.albert@gmx.de on Thu, 03 Nov 2005 13:09:06 GMT

Hi,

I guess you might want to use

openr, flun, filename, width=4000, /GET_LUN

The WIDTH keyword allows to surpress the carriage returns after 80
characters or so, whatever the default value is
Cheers,

   Peter

Subject: Re: Extracting arrays into txt files
Posted by txominhermos on Thu, 03 Nov 2005 14:28:55 GMT

with the "width" statement it works nice

thanks for the help

Txomin

Subject: Re: Extracting arrays into txt files
Posted by R.Bauer on Mon, 07 Nov 2005 19:28:29 GMT

txominhermos@hotmail.com wrote:

> Note: the arrays are quite bigs (3000 x 8000)

Hmm, they must have worked on excel. Are you sure it can read 3000 columns?

What would be the colum name 3000 be?

I would guess it is
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ

ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZK

If one wants this good luck ;-)

cheers

Reimar