## Subject: Output file with string blanks and float Posted by Miguel on Sun, 03 May 2015 08:26:37 GMT

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Hi,

I'm trying to create an output file with these specific conditions:

- 1) If the result is negative, the corresponding output is a blank
- 2) If the result is ok, the output is a number with a specific number of decimal

For example, I have this initial output

```
-1 2.312 54.124
547.5460 -1.0 65.321
```

And I want

For the blank, I convert each line into a string array and I put "String(Replicate(32B, 8))" to create a blank with specific width.

However, if I convert into a string array, I cannot use the format F[w].[d] to specify the number of decimal.

I thought I could use STRNSIGNIF but the number of decimal won't be the same for each numbers.

Do you have an idea to have the output file with these two conditions? Is this possible to create a blank in float and not in string format?

**Thanks** 

Miguel

Subject: Re: Output file with string blanks and float Posted by Miguel on Sun, 03 May 2015 09:07:07 GMT

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Ok, I just found a way:

```
x=21.4567 print,strnsignif( x,strlen(strcompress(fix(x)))-1+2 )
```

gives: x=21.46

If you have a better way, please tell me.

Moreover, I still want to know if a blank arrray is possible in float format

Thanks Miguel

Subject: Re: Output file with string blanks and float Posted by David Fanning on Sun, 03 May 2015 12:35:44 GMT View Forum Message <> Reply to Message

miguelfigueirasebastiao@gmail.com writes:

> I'm trying to create an output file with these specific conditions :

>

- > 1) If the result is negative, the corresponding output is a blank
- > 2) If the result is ok, the output is a number with a specific number of decimal

Humm. Good way to make yourself the most hated person on the planet when someone else has to read this data file. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Output file with string blanks and float Posted by Miguel on Sun, 03 May 2015 15:14:11 GMT

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- > Humm. Good way to make yourself the most hated person on the planet when
- > someone else has to read this data file. :-)

>

Well, if I put a blamk, it is because the result just doesn't exist.

Finally, I'm still with my problem because "strnsignif(x,strlen(strcompress(fix(x)))-1+2)" does not work when the integer part of the number is 0

Miguel

## Subject: Re: Output file with string blanks and float Posted by Matthew Argall on Sun, 03 May 2015 20:44:09 GMT

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- >> Humm. Good way to make yourself the most hated person on the planet when
- >> someone else has to read this data file. :-)

>>

>

> Well, if I put a blamk, it is because the result just doesn't exist.

It is much much better to define a fill value (e.g. -999.99) for your data, and specify what that value is in the header of the file.

Subject: Re: Output file with string blanks and float Posted by Miguel on Mon, 04 May 2015 09:51:01 GMT

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> It is much much better to define a fill value (e.g. -999.99) for your data, and specify what that value is in the header of the file.

If I had to use my output file as a input file, I completely agree with you (and the output with fill value of -1 is already made).

Miguel

Subject: Re: Output file with string blanks and float Posted by Matthew Argall on Mon, 04 May 2015 13:47:50 GMT View Forum Message <> Reply to Message

Instead of writing a space, simply advance the file pointer to the right.

Take this example

```
;A line of data
data = [1.0, -1.0, 6.0]
```

;Search for and remove negative numbers ipos = where(data ge 0, npos, COMPLEMENT=ineg, NCOMPLEMENT=nneg) data = data[ipos]

;Create a format code with floats for positive numbers and spaces for negative numbers fmt = strarr(npos + nneg) if npos gt 0 then fmt[ipos] = 'f8.2' if nneg gt 0 then fmt[ineg] = '8x' fmt = '(' + strjoin(fmt, ',') + ')'

;Results help, string(data, FORMAT=fmt) <Expression> STRING = ' 1.00 6.00'

Subject: Re: Output file with string blanks and float Posted by Miguel on Mon, 04 May 2015 16:01:38 GMT

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> Instead of writing a space, simply advance the file pointer to the right.

Thanks, I will try that ;)

Miguel