
Subject: Re: representative digits

Posted by [andrea.pitacco](#) on Mon, 04 Feb 2002 14:17:28 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Mon, 04 Feb 2002 13:46:58 +0100, Reimar Bauer
<r.bauer@fz-juelich.de> wrote:

> Hi,
>
>
> I am searching for a routine to copy numbers to their
> representative digits in a string.
>
> e.g
>
> float : 6 digits
>
> numbers=[(1/3.)*1000., !pi*10000.]
>
> print,numbers,format='(F20.5)'
>
> gives a fix mask and returns:
>
> 333.33334
> 31415.92773
>
>
> what I like to have is :
>
> 333.333
> 31415.9
>
> Any ideas ?

```
IDL> numbers=[(1/3.)*1000., !pi*10000.]  
IDL> digNo=6
```

```
IDL> Print, StrMid(StrTrim(String(Float(numbers)),2),0,digNo+1)  
333.333 31415.9
```

Andrea

Subject: Re: representative digits

Posted by [R.Bauer](#) on Mon, 04 Feb 2002 15:18:09 GMT

[View Forum Message](#) <> [Reply to Message](#)

Andrea Pitacco wrote:

```

>
> On Mon, 04 Feb 2002 13:46:58 +0100, Reimar Bauer
> <r.bauer@fz-juelich.de> wrote:
>
>> Hi,
>>
>>
>> I am searching for a routine to copy numbers to their
>> representative digits in a string.
>>
>> e.g
>>
>> float : 6 digits
>>
>> numbers=[(1/3.)*1000., !pi*10000.]
>>
>> print,numbers,format='(F20.5)'
>>
>> gives a fix mask and returns:
>>
>>      333.33334
>>    31415.92773
>>
>>
>> what I like to have is :
>>
>> 333.333
>> 31415.9
>>
>> Any ideas ?
>
> IDL> numbers=[(1/3.)*1000., !pi*10000.]
> IDL> digNo=6
>
> IDL> Print, StrMid(StrTrim(String(Float(numbers)),2),0,digNo+1)
> 333.333 31415.9
>
> Andrea

```

Good idea

first result is:

```

IDL> numbers=[(1/3.)*1000., !pi*10000.]
IDL> digNo=6

```

```

IDL> x=StrMid(StrTrim(String(Float(numbers)),2),0,digNo+1)

```

```
IDL> fakt=10.0D^ROUND(/L64,ALOG10(numbers ))
```

```
IDL> PRINT,fakt*x/fakt,form='(F20.6)'
```

```
333.333000  
31415.900000
```

thanks

Reimar

--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)

Forschungszentrum Juelich

email: R.Bauer@fz-juelich.de

<http://www.fz-juelich.de/icg/icg1/>

=====

a IDL library at Forschungszentrum Juelich

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

<http://www.fz-juelich.de/zb/text/publikation/juel3786.html>

=====

Subject: Re: representative digits

Posted by [James Kuyper](#) on Mon, 04 Feb 2002 15:28:17 GMT

[View Forum Message](#) <> [Reply to Message](#)

Reimar Bauer wrote:

```
> Hi,  
>  
>  
> I am searching for a routine to copy numbers to their  
> representative digits in a string.  
>  
> e.g  
>  
> float : 6 digits  
>  
> numbers=[(1/3.)*1000., !pi*10000.]  
>  
> print,numbers,format='(F20.5)'  
>  
> gives a fix mask and returns:
```

>
> 333.33334
> 31415.92773
>
>
> what I like to have is :
>
> 333.333
> 31415.9
>
> Any ideas ?
>
>
> Reimar

```
printf,numbers,format='(G7.6)'
```

Subject: Re: representative digits
Posted by [R.Bauer](#) on Tue, 05 Feb 2002 17:01:38 GMT
[View Forum Message](#) <> [Reply to Message](#)

James Kuyper wrote:

>
> Reimar Bauer wrote:
>
>> Hi,
>>
>>
>> I am searching for a routine to copy numbers to their
>> representative digits in a string.
>>
>> e.g
>>
>> float : 6 digits
>>
>> numbers=[(1/3.)*1000., !pi*10000.]
>>
>> print,numbers,format='(F20.5)'
>>
>> gives a fix mask and returns:
>>
>> 333.33334
>> 31415.92773
>>
>>
>> what I like to have is :
>>

```
>> 333.333
>> 31415.9
>>
>> Any ideas ?
>>
>>
>> Reimar
>
> printf,numbers,format='(G7.6)'
```

that's the best

```
print,float(string(numbers,format='(G7.6)'))
```

Thanks

Reimar

--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)

Forschungszentrum Juelich

email: R.Bauer@fz-juelich.de

<http://www.fz-juelich.de/icg/icg1/>

=====

a IDL library at Forschungszentrum Juelich

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

<http://www.fz-juelich.de/zb/text/publikation/juel3786.html>

=====

Subject: Re: representative digits

Posted by [R.Bauer](#) on Tue, 05 Feb 2002 17:04:29 GMT

[View Forum Message](#) <> [Reply to Message](#)

James Kuyper wrote:

>

> Reimar Bauer wrote:

>

>> Hi,

>>

>>

>> I am searching for a routine to copy numbers to their
>> representative digits in a string.

>>

>> e.g

```

>>
>> float : 6 digits
>>
>> numbers=[(1/3.)*1000., !pi*10000.]
>>
>> print,numbers,format='(F20.5)'
>>
>> gives a fix mask and returns:
>>
>>      333.33334
>>    31415.92773
>>
>>
>> what I like to have is :
>>
>> 333.333
>> 31415.9
>>
>> Any ideas ?
>>
>>
>> Reimar
>
> printf,numbers,format='(G7.6)'

```

That's the one I am looking for

```

print,double(string(numbers,format='(G7.6)'),format='(F20.8 )'

      333.33300000
    31415.90000000

```

Thanks

Reimar

--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)
 Forschungszentrum Juelich
 email: R.Bauer@fz-juelich.de
<http://www.fz-juelich.de/icg/icg1/>

```

=====
a IDL library at Forschungszentrum Juelich
http://www.fz-juelich.de/icg/icg1/idl\_icglib/idl\_lib\_intro.h tml

```

