
Subject: IDL code - problem to convert string to float
Posted by [capercas](#) on Thu, 28 Nov 2013 17:05:21 GMT
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Dear all,

The problem comes from the strrs (SearchString value) when is converted to float. It could be because it is an string-ARRAY because I did not find this problem with uki1 and uki2 (using STRMATCH).

For the last example I can not understand what is happening because there is not any conversion...but the warning say: Unable to convert given STRING to Long64

If you could help me.....

PROBLEM 1

*****part of the code*****

```
if country eq 'UK' then begin
```

```
    uki1 = 'UKI1'
```

```
    uki2 = 'UKI2'
```

```
    ara90_uki1 = (float(datacl90[WHERE(STRMATCH(datacl90,uki1))+3]))/10000
```

```
    ara90_uki2 = (float(datacl90[WHERE(STRMATCH(datacl90,uki2))+3]))/10000
```

```
    pc90_uki1 = (float(datacl90[WHERE(STRMATCH(datacl90,uki1))+4]))/10000
```

```
    pc90_uki2 = (float(datacl90[WHERE(STRMATCH(datacl90,uki2))+4]))/10000
```

```
    past90_uki1 = (float(datacl90[WHERE(STRMATCH(datacl90,uki1))+5]))/10000
```

```
    past90_uki2 = (float(datacl90[WHERE(STRMATCH(datacl90,uki2))+5]))/10000
```

```
endif
```

```
ara= float(datacl90[WHERE(STRMATCH(datacl90,strrs))+3])
```

```
arac90=float(ara)/10000
```

```
pc= float(datacl90[WHERE(STRMATCH(datacl90,strrs))+4])
```

```
pccl90=float(pc)/10000
```

```
past= float(datacl90[WHERE(STRMATCH(datacl90,strrs))+5])
```

```
pastcl90=float(past)/10000
```

*****console*****

```
IDL> help, uki1
```

```
UKI1      STRING   = 'UKI1'
```

```
IDL> help, strrs
```

```
STRRS     STRING   = Array[1]
```

PROBLEM2

*****part of the code*****

Detected at: CAPRI_1990TO2050_PRIMESCOR_ALLMINMAX 965

E:\perpcar\Documents\LUMP\CAPRI_DATA\SCRIPTS\capri_1990to205

```
0_primescor_allminmax.pro
% Type conversion error: Unable to convert given STRING to Long64.
```

```
printf,1,uki2
  for y=0L, nyears+4 do begin
    printf, 1, ['dummies','noData',$ //This is the line 965
      'noData','noData','noData', $
      'noData','noData','noData'],$
    format='(i10,i15,i15,i15,i15,i15,i15,i15)'
```

Thank you very much for your time.
Regards,
Carolina

Subject: Re: IDL code - problem to convert string to float
Posted by [David Fanning](#) on Thu, 28 Nov 2013 17:24:38 GMT
[View Forum Message](#) <> [Reply to Message](#)

capercas@topo.upv.es writes:

```
> printf,1,uki2
>   for y=0L, nyears+4 do begin
>     printf, 1, ['dummies','noData',$ //This is the line 965
>       'noData','noData','noData', $
>       'noData','noData','noData'],$
>     format='(i10,i15,i15,i15,i15,i15,i15,i15)'
```

These are *strings* you are trying to print (e.g., "dummies", "noData", etc.), not integers as your FORMAT statement would indicate. IDL is complaining because you are sending it mixed messages. :-)

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: IDL code - problem to convert string to float
Posted by [capercas](#) on Fri, 29 Nov 2013 09:07:32 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Thursday, November 28, 2013 6:05:21 PM UTC+1, cape...@topo.upv.es wrote:

```
> Dear all,
>
>
>
> The problem comes from the strrs (SearchString value) when is converted to float. It could be
because it is an string-ARRAY because I did not find this problem with uki1 and uki2 (using
STRMATCH).
>
> For the last example I can not understand what is happening because there is not any
conversion...but the warning say: Unable to convert given STRING to Long64
>
>
>
> If you could help me.....
>
>
> PROBLEM 1
>
> *****part of the code*****
>
>
>
> if country eq 'UK' then begin
>
>     uki1 = 'UKI1'
>
>     uki2 = 'UKI2'
>
>     ara90_uki1 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki1))+3]))/10000
>
>     ara90_uki2 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki2))+3]))/10000
>
>     pc90_uki1 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki1))+4]))/10000
>
>     pc90_uki2 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki2))+4]))/10000
>
>     past90_uki1 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki1))+5]))/10000
>
>     past90_uki2 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki2))+5]))/10000
>
> endif
>
>
>
> ara= float(dataclc90[WHERE(STRMATCH(dataclc90,strrs))+3])
>
```

```

>   aralc90=float(ara)/10000
>
>   pc= float(dataalc90[WHERE(STRMATCH(dataalc90,strrs))+4])
>
>   pcclc90=float(pc)/10000
>
>   past= float(dataalc90[WHERE(STRMATCH(dataalc90,strrs))+5])
>
>   pastclc90=float(past)/10000
>
>
>
>
> *****console*****
>
> IDL> help, uki1
>
> UKI1      STRING  = 'UKI1'
>
> IDL> help, strrs
>
> STRRS     STRING  = Array[1]
>
>
>
>
>
>
> PROBLEM2
>
> *****part of the code*****
>
> Detected at: CAPRI_1990TO2050_PRIMESCOR_ALLMINMAX 965
E:\perpcar\Documents\LUMP\CAPRI_DATA\SCRIPTS\capri_1990to205
0_primescor_allminmax.pro
>
> % Type conversion error: Unable to convert given STRING to Long64.
>
>
>
> printf,1,uki2
>
>   for y=0L, nyears+4 do begin
>
>       printf, 1, ['dummies','noData',$ //This is the line 965
>

```

> 'noData','noData','noData', \$
>
> 'noData','noData','noData'],\$
>
> format='(i10,i15,i15,i15,i15,i15,i15,i15)'
>
>
>
> Thank you very much for your time.
>
> Regards,
>
> Carolina

Thank you very much for answering.
The code is not mine, and I do not know how to fix this problem.

Regards,
Carolina

Subject: Re: IDL code - problem to convert string to float
Posted by [David Fanning](#) on Fri, 29 Nov 2013 13:49:37 GMT
[View Forum Message](#) <> [Reply to Message](#)

capercas@topo.upv.es writes:

> The code is not mine, and I do not know how to fix this problem.

Well, you need to match the type of data you are printing with the proper format code. The format code for strings is "A" not "I", which is the format code for integers. Try looking up "format codes" in the IDL on-line help.

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: IDL code - problem to convert string to float

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> Dear all,

>

>

>

> The problem comes from the strrs (SearchString value) when is converted to float. It could be because it is an string-ARRAY because I did not find this problem with uki1 and uki2 (using STRMATCH).

>

> For the last example I can not understand what is happening because there is not any conversion...but the warning say: Unable to convert given STRING to Long64

>

>

>

> If you could help me.....

>

>

>

> PROBLEM 1

>

> *****part of the code*****

>

>

>

> if country eq 'UK' then begin

>

> uki1 = 'UKI1'

>

> uki2 = 'UKI2'

>

> ara90_uki1 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki1))+3]))/10000

>

> ara90_uki2 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki2))+3]))/10000

>

> pc90_uki1 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki1))+4]))/10000

>

> pc90_uki2 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki2))+4]))/10000

>

> past90_uki1 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki1))+5]))/10000

>

> past90_uki2 = (float(dataclc90[WHERE(STRMATCH(dataclc90,uki2))+5]))/10000

>

> endif

>

>

>

>

```

> ara= float(dataclc90[WHERE(STRMATCH(dataclc90,strrs))+3])
>
> aralc90=float(ara)/10000
>
> pc= float(dataclc90[WHERE(STRMATCH(dataclc90,strrs))+4])
>
> pcclc90=float(pc)/10000
>
> past= float(dataclc90[WHERE(STRMATCH(dataclc90,strrs))+5])
>
> pastclc90=float(past)/10000
>
>
>
>
> *****console*****
> IDL> help, uki1
>
> UKI1      STRING  = 'UKI1'
>
> IDL> help, strrs
>
> STRRS     STRING  = Array[1]
>
>
>
>
>
>
> PROBLEM2
>
> *****part of the code*****
>
> Detected at: CAPRI_1990TO2050_PRIMESCOR_ALLMINMAX 965
E:\perpcar\Documents\LUMP\CAPRI_DATA\SCRIPTS\capri_1990to205
0_primescor_allminmax.pro
>
> % Type conversion error: Unable to convert given STRING to Long64.
>
>
>
> printf,1,uki2
>
> for y=0L, nyears+4 do begin
>

```

```
>      printf, 1, ['dummies','noData',$ //This is the line 965
>
>      'noData','noData','noData', $
>
>      'noData','noData','noData'],$
>
>      format=(i10,i15,i15,i15,i15,i15,i15,i15)'
>
>
>
> Thank you very much for your time.
>
> Regards,
>
> Carolina
```

Thank you very much David.
I will check in the IDL on-line help.

Best Regards,
Carolina
