
Subject: problem with FIX function
Posted by [Ali Gamal](#) on Tue, 15 Nov 2016 14:12:17 GMT
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Hi, all

```
.....  
IDL> x=40251.00  
IDL> print,fix(x)  
-25285
```

```
.....  
How it is result, what is the promplem?
```

Subject: Re: problem with FIX function
Posted by [Burch](#) on Tue, 15 Nov 2016 14:23:44 GMT
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On Tuesday, November 15, 2016 at 8:12:19 AM UTC-6, AGW wrote:

```
> Hi, all  
>  
> .....  
> IDL> x=40251.00  
> IDL> print,fix(x)  
> -25285  
> .....  
> How it is result, what is the promplem?
```

By default FIX() returns an integer type, which ranges from -32768 to +32767. You need to use the TYPE keyword to specify an output type appropriate for your situation. For, instance setting "TYPE = 3" (Long integer) behaves as you would expect:

```
IDL> print, fix(40251.00, type = 3)  
40251
```

IDL Documentation: <http://www.harrisgeospatial.com/docs/FIX.html>

-Jeff

Subject: Re: problem with FIX function
Posted by [natha](#) on Tue, 15 Nov 2016 14:27:56 GMT
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The problem is underflow... Note that 16-bit signed integers range from -32,768 to +32,768

Use LONG(x) or FIX(x,TYPE=3)

Nata

Subject: Re: problem with FIX function

Posted by [yuxipang](#) on Tue, 15 Nov 2016 14:29:00 GMT

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On Tuesday, November 15, 2016 at 9:12:19 AM UTC-5, AGW wrote:

> Hi, all

>

>
> ;;;;;;;;;;;;;;;;;;

> IDL> x=40251.00

> IDL> print,fix(x)

> -25285

>
> ;;;;;;;;;;;;;;;;;;

> How it is result, what is the promplem?

x is beyond the limit of a signed integer range [-32,768 to +32,767] when using fix(x). Try this instead ...

print, fix(x, type=3) ; convert to long integer or

print, long(x)

Hope this helps!

Subject: Re: problem with FIX function

Posted by [Ali Gamal](#) on Tue, 15 Nov 2016 18:38:55 GMT

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On Tuesday, November 15, 2016 at 4:12:19 PM UTC+2, AGW wrote:

> Hi, all

>

>
> ;;;;;;;;;;;;;;;;;;

> IDL> x=40251.00

> IDL> print,fix(x)

> -25285

>
> ;;;;;;;;;;;;;;;;;;

> How it is result, what is the promplem?

Thanks, Now if

$x = b + c + dd + d + 1720991.5 = 2444351.5$

IDL print x=2444352.0

why, how can I solve it?

Subject: Re: problem with FIX function

Posted by [Craig Markwardt](#) on Tue, 15 Nov 2016 19:30:57 GMT

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On Tuesday, November 15, 2016 at 1:38:57 PM UTC-5, AGW wrote:

> On Tuesday, November 15, 2016 at 4:12:19 PM UTC+2, AGW wrote:

>> Hi, all

>>

>>
>> ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

>> IDL> x=40251.00

>> IDL> print,fix(x)

>> -25285

>>
>> ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

>> How it is result, what is the promplem?

>

> Thanks, Now if

>

> x=b+c+dd+d+1720991.5=2444351.5

>

> IDL print x=2444352.0

Hard to know without understanding the variables and what formatting options you used to print it.

The statement

print, 2444351.5, format='(F0)'

does result in the correct output.

Subject: Re: problem with FIX function

Posted by [Ali Gamal](#) on Tue, 15 Nov 2016 20:10:32 GMT

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b=2.0-a+long((a/4.0))

c=long([365.25*y1]-0.75)

dd=long(30.6001*(am1+1))

d=d1+(h1/24.0)
