Subject: long to float
Posted by Dominik[1] on Thu, 05 Apr 2001 16:54:09 GMT
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By furtune I came a liitle bit closer to the solution of my Problem, but still coulndt solve it. But perhaps can somebody explain me this:

I tried it two ways:

first in a file:

pro test

out = -1.07615e+8

byteorder, out, /VAXTOF

end

which delivers me out = 14.2375

second way using the command line:

out = -1.07615e+8

byteorder, out, /VAXTOF

and in the variable watch now is out = 10.8 which is correct!

Funny?!?!?

Does somebody know a solution?

the pro file to 6556, which is wrong

Thanks

Dominik

Subject: Re: long to float Posted by Martin Schultz on Thu, 05 Apr 2001 17:49:49 GMT View Forum Message <> Reply to Message

Also with -3.69732e+019, which should be 6588.0, but will be calculated in

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Dominik wrote:
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>

> Hello,

>

> I have a small problem (i hope)

>

- > I read a number (is = -536852787) out of a file. But this number is not a
- > long, it shoul be a float. It should be sb =6588.00. I am not sure if the
- > first Number is a big endian, but the second is in little endian.
- > so, after I multiply the start number with -1 and make byteorder, the same
- > hexadecimal number is in the memory. It is FF1F33B9, but he shows
- > e -14732359

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> Is there a good way to see the stuff in memory as a float and not as a
 lona??
> thanks for helping
  Dominik
 Example code
  pro test
  f = -536852787
 help, f
> print, Format='(Z)', f
> f = -1 * f
> help, f
> print, Format='(Z)', f
> byteorder, f
> help, f
> print, Format='(Z)', f
> end
I would tackle the problem on the step before: you mention you read
the number from a file. So (if it is a binary file) you should make
use of the swap_endian keyword if you read files produced on other
platforms. Then you can directly read in your float numbers with no
need of conversion.
BTW: You should always "declare" the variable type when you read stuff
from file, e.g.
time=0.D
value=0.
index=0L
readu,lun,time,value,index
Martin
```

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