Subject: Re: 32bit to 64bit conversion
Posted by Craig Markwardt on Thu, 07 Aug 2003 05:07:28 GMT
View Forum Message <> Reply to Message

Tapuosi Lotoaniu < lotoaniu @ atmos.ucla.edu > writes:

> Hi all,

>

- > I have data in the form big endian 32 bit positive integer (31 bit data
- > with extra most significant bit set to zero). I want to import this data
- > into idl 5.5 running on a sunblade 64 bit Unix machine.

>

- > The IDL code (written for 32 bit PC) seems to work fine if the data is
- > positive but the negative values are not coming out right.

If you have all positive integers (see 1st paragraph), then why are concerned about negative values? (see 2nd paragraph).

Since IDL data types have a specific byte-size, I think you should be able to read a LONG integer generated on one machine into another machine, regardless of the native processor word size. Of course, you should open the file with the correct endianness keywords to OPENU.

Good luck, Craig

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: 32bit to 64bit conversion
Posted by Tapuosi Lotoaniu on Wed, 13 Aug 2003 08:30:16 GMT
View Forum Message <> Reply to Message

The real data values can be +/- float, integer, etc.. However the data are stored to file only as 32 bit +ve integers. Anyway it does not matter cause I worked it out.

On 7 Aug 2003, Craig Markwardt wrote:

> Tapuosi Lotoaniu <lotoaniu@atmos.ucla.edu> writes:

>> Hi all,

```
>>
>> I have data in the form big endian 32 bit positive integer (31 bit data
>> with extra most significant bit set to zero). I want to import this data
>> into idl 5.5 running on a sunblade 64 bit Unix machine.
>>
>> The IDL code (written for 32 bit PC) seems to work fine if the data is
   positive but the negative values are not coming out right.
>
> If you have all positive integers (see 1st paragraph), then why are
  concerned about negative values? (see 2nd paragraph).
>
  Since IDL data types have a specific byte-size, I think you should be
 able to read a LONG integer generated on one machine into another
 machine, regardless of the native processor word size. Of course, you
  should open the file with the correct endianness keywords to OPENU.
>
  Good luck,
 Craig
>
>
  Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
  Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
>
>
>
```