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Subject: Re: MSB, LSB?

Posted by [davidf](#) on Thu, 04 Mar 1999 08:00:00 GMT

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David Fanning (davidf@dfanning.com) writes:

>> Height = MSB(most significant bits) \* 256 + LSB(least significant bits)

Whoops! I wrote:

> height = Byte(data, 0) \* 256 + Byte(data, 1)

And I probably should have written:

height = Byte(data, 1) \* 256 + Byte(data, 0)

I think I wrote my test number incorrectly. :-(

You also have to pay attention to where this data was created and what kind of machine you are working on. For example, if this data was created on a UNIX machine and I'm reading it on my PC, then I have to swap the MSB and LSB when I read the data file.

OpenR, lun, filename, /Get\_Lun, /Swap\_If\_Little\_Endian

Cheers,

David

P.S. I promise in the future to get my kids off to school BEFORE I start answering questions on the newsgroup. :-)

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: MSB, LSB?

Posted by [davidf](#) on Thu, 04 Mar 1999 08:00:00 GMT

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> i want to read some datas.

> its description is below.  
>  
> <Description of Data>  
> Spatial Resolution : 3" x 3"(about 90m)  
> Number of Row and Column : 1201 x 1201  
> Pixel depth : 2byte  
> Height Accuracy : 1m  
> File Name E127n38.img : E127 - E128, N38 - N39  
> File Format : unformatted binary  
> Height = MSB(most significant bits) \* 256 + LSB(least significant bits)  
>  
> ~~~~~~  
> i can't read this data to use IDL  
> how read?

```
OpenR, lun, thisFile, /Get_Lun
data = IntArr(1201, 1201)
ReadU, lun, data
Free_Lun, data
height = Byte(data, 0) * 256 + Byte(data, 1)
```

Cheers,

David

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