
Subject: Re: Read Hex numbers
Posted by [boswell](#) on Fri, 24 Nov 1995 08:00:00 GMT
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Apologies to the group for the wasted bandwidth of my last post.

Michael is reading in his binary data just fine, he simply wants to print out the result in hex. My last answer had the right idea, but my example was backwards.

What you want to do is use the Z format specifier on output. This works fine in IDL. For example, if you want to output nibbles of your 2 byte array, you could use a statement such as

```
IDL> print, bytearray, format='(2Z2)'
```

Jonathan Boswell
FDA/CDRH

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Posted by on Fri, 24 Nov 1995 08:00:00 GMT
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SLAMECZKA@EZINFO.VMSMAIL.ETHZ.CH (SLAMECZKA,MICHAEL) wrote:

> Hello everybody!

>

> I have the following problem; i have a binary file, which I wanna read. I know
> that pw-wave can read this file in binary, ascii, integer, float and complex,
> but I need to read it in HEX, that means

>

> a sequence looks like this: 0001 1001 0100 0011
 ~::~::~::~::~::~::~::~::~

> and PW-Wave should display: 1 9 4 3

>

> with a bytearray the output looks like this: 25 67

>

> Has anybody some ideas, how I can handle this problem?

>

> thanks in advance

>

> michael

Maybe I'm stupid, but I don't understand your question.
Or are you mixing some terms here?

Is your file really binary, or is it an ascii representation of
binary numbers?

What do you mean by "read it in HEX" ?

Please clarify, and I'll try to help.

--

```
/* Frank J. Jönnes | frank@spacetec.no /*  
/* Spacetec a.s | Phone: +47 77684500 Fax: +47 77655859 /*  
/* Prestvannv. 38, | /*  
/* N-9005 Tromsø 1/2, Norway | (...with the bravery of being out of range!) /*
```

Subject: Re: Read Hex numbers

Posted by [rivers](#) on Fri, 24 Nov 1995 08:00:00 GMT

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In article <494frp\$4p7@elna.ethz.ch>, SLAMECZKA@EZINFO.VMSMAIL.ETHZ.CH
(SLAMECZKA,MICHAEL) writes:

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It looks like you want to read the data into "nibbles" of 4 bits each, rather
than bytes of 8 bits each. This is really not "read in HEX". It think the
following will do what you want.

```
IDL> bytes = bytarr(1000)  
IDL> nibbles = bytarr(2,1000)  
IDL> READU, 1, bytes  
IDL> nibbles(0,*) = bytes and '0f'x  
IDL> nibbles(1,*) = bytes/16 and '0f'x  
IDL> nibbles = reform(nibbles, 2000)
```

Note that the lines 4 and 5 are architecure dependent: the assignment depends
upon whether you have a big-endian or little-endian machine.

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