
Subject: Re: Read Hex numbers

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

[View Forum Message](#) <> [Reply to Message](#)

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

> 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

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.

Mark Rivers	(312) 702-2279 (office)
CARS	(312) 702-9951 (secretary)
Univ. of Chicago	(312) 702-5454 (FAX)
5640 S. Ellis Ave.	(708) 922-0499 (home)
Chicago, IL 60637	rivers@cars3.uchicago.edu (Internet)
