Subject: Re: Constructing integer variables from two bytes?
Posted by Lajos Foldy on Wed, 07 Dec 2011 12:52:35 GMT
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On Dec 7, 6:46 am, Jared Espley <jesp...@gmail.com> wrote:
> I have data in a byte array that I would like to use to construct
> arrays of unsigned integers and integers.
>
> In code:
> A = [1B, 2B]
> B = 0
> B = A[0]*256 + fix(A[1])
>
> Which will give B as an integer type with a value 258.
>
> I realize that I can construct functions to do this (multiple each bit
> by the appropriate value and checking which OS we're in so that we get
> endianness correct) but I was wondering if someone had already done
> this rigorously?
>
> Thanks,
> Jared

FIX can combine the bytes into integers (in host byte order, use
SWAP_ENDIAN if the source byte order is different):

```
IDL> b2=fix(a, 0, 1, type=2)
IDL> help, b2
B2              INT       = Array[1]
IDL> print, b2
    513
IDL> print, swap_endian(b2)
    258
```

regards,
Lajos