Subject: Re: Decomposing a bit field?

Posted by Steve[5] on Wed, 21 Jul 2010 10:29:14 GMT

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Rob wrote:

> for i=0, 31 do begin test[i]=(ISHFT((15982561),-i) AND 1B)

>

- > However, for example bits 1-4 need to be combined (and contain data
- > from 0-15). As I don't guite understand what the code above is doing
- > I'm not sure how to (or if it can be) modified to not just operate on
- > the individual bits but on groups of bits.

ISHFT - moves bits right or left so that the bits you want are at the end of the value. AND selects the bits that you want.

>

> What I need to extract is the information in the following form:

>

> Bit 0: 0 or 1

bit0= ishft(15982561,0) and 1B

> Bits 1-4: 0-15

bits1to4 = ishft(15982561,-1) and 17B

> Bit 5: 0 or 1

bit5 = ishft(15982561,-5) and 1B

> Bits 6-8: 0-8

bits6to8 = ishft(15982561,-6) and 7B

> etc

>

> Thanks in advance