
Subject: Re: Decomposing a bit field?

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

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

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 quite 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
