
Subject: Decomposing a bit field?

Posted by [rjp23](#) on Wed, 21 Jul 2010 09:40:02 GMT

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

Hi all,

I have some data that is contained within a 32-bit field.

I'm using some code from a colleague which seems to almost do what I want but not quite.

An example of one of the data values is 15982561

The following code takes this and creates an array of 1s and 0s for whether each bit is set or not.

```
test=intarr(32)
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.

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

Bit 0: 0 or 1
Bits 1-4: 0-15
Bit 5: 0 or 1
Bits 6-8: 0-8
etc

Thanks in advance
