
Subject: Re: Reading individual bits of MODIS BRDF quality files

Posted by [wita](#) on Mon, 21 Sep 2009 08:38:49 GMT

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>

> Is there a function in IDL that can read individual bits, or any other
> clever way to produce an array of 1s and 0s from a 32-bit integer?

Hi Edward,

Compile the function below and run it through ENVI Band math and it
will return an 0/1 map of the bit position that you specify. So for
retrieving
bit position 7 (integer value 128) use:

```
cgi_map_bitwise_flag(b1, 7)
```

with best regards,

Allard

```
FUNCTION cgi_map_bitwise_flag, statusmap, bitposition  
  return, BYTE((statusmap AND (2UL^bitposition))/(2UL^bitposition))  
END
```
