
Subject: Re: is there a command in IDL like bitget command in matlab?

Posted by [mmeron](#) on Wed, 14 Jun 2006 04:56:46 GMT

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In article <zzbatmos-A42A7E.23210713062006@news.tamu.edu>, zzbatmos
<zzbatmos@tamu.edu> writes:

> Hi all,

> Does anyone know that whether there is command in IDL to get the value
> of a bit in a integer, just like the bitget command in MATLAB?

>

You can use AND for this purpose. For bit #n (count starts at zero)
of integer x do

$$\text{bit} = (x \text{ and } 2^n) / 2^n$$

more generally you can generate an array, say for 32 bits, by

$$\text{arr} = 2^{\text{lindgen}(32)}$$

and get all the bits of a given integer by doing

$$\text{res} = (x \text{ and arr}) / \text{arr}$$

Mati Meron | "When you argue with a fool,
meron@cars.uchicago.edu | chances are he is doing just the same"
