Subject: Re: BYTSCL and NAN keyword
Posted by Craig Markwardt on Wed, 03 Mar 2004 16:41:47 GMT
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Kenneth Bowman <k-bowman@null.tamu.edu> writes:

> In article <ond67vf8sb.fsf@cow.physics.wisc.edu>,
> Craig Markwardt <craigmnet@REMOVEcow.physics.wisc.edu> wrote:
>
>> How about this non-WHERE approach?
>> bb = bytscl(x, ...) + (finite(x) EQ 0)*255b
>
> Clever idea (JD also)! The logical not operator (~) will work as well
>
> bb = BYTSCL(x, ..., /NAN) + BYTE(255*(~FINITE(co)))
>
> While not mandatory, the BYTE function ensures that the result bb is
> type BYTE (since FINITE returns a LONG).

No I disagree. FINITE should (and does) return a BYTE, just like all the other conditional expressions in IDL.

Logical negation ("~" operator) also keeps the byte-ness of the operand.

I think where you are going askew is the multiplication by 255. You really need the "B" after 255b in order to force it to be a byte.

Craig

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