## Subject: IDL's handling of LOGICAL quantities (WHERE) Posted by James Tappin on Tue, 12 Oct 1999 07:00:00 GMT

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\begin{rant}

I've finally decided to have a public moan about one of the weaknesses of IDL's handling of logical operations: to boot -- that the WHERE function follows a C-like interpretation while most other things are Fortran-like.

for example suppose we have an array (m) some of whose values are NaN then the (inefficient) loop: for j=0, n\_elements(m) do if not finite(m(j)) then m(j)=0 will set all non-finite elements of m to 0. However: m(where(not finite(m))) = 0 will zero out the whole array since where sees (not 1) as a Yes. [The correct solution is of course: m(where(finite(m) ne 1)) = 0]

Or a simpler example: |DL>a=[0,1,0,1]

IDL> print, where(a eq 0)

0 2

IDL> print, where(not (a ne 0))

0 1 2 3

I guess the proper answer isto have aproper logical or boolean type and functions like FINITE and logical operations should return it, and of course WHERE should accept it.

\end{rant}

Subject: Re: IDL's handling of LOGICAL quantities (WHERE) Posted by Mirko Vukovic on Tue, 19 Oct 1999 07:00:00 GMT View Forum Message <> Reply to Message

In article <MPG.126cfe683b63903f989913@news.frii.com>, davidf@dfanning.com (David Fanning) wrote:

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> James Tappin (sjt@star.sr.bham.ac.uk) writes:
>> \begin{rant}
>> \end{rant}
> Uh, right. Whatever.
>
> Cheers,
> David
> P.S. I *think* it was IDL code.
nope, it was LaTeX, one of the better ways of producing
really great-looking text.
Mirko
\PS{P.S. I am very biased here, don't take my opinions too
seriously.}
Sent via Deja.com http://www.deja.com/
Before you buy.
```