Subject: Re: N_ELEMENTS and WHERE: Scalar or Array? Posted by steinhh on Tue, 02 Feb 1999 08:00:00 GMT

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In article <36b5d66b.0@news.nwl.ac.uk> wmc@bas.ac.uk writes: [..]

- > I'm not sure this is so: indexing by nulls ("where" in the example
- > above would return "null", not -1) can be distinguished from out-
- > of-range.

The problem is the "null" - it ought to be something other than an integer/long/long64. Ok, so maybe -2LL^63 would do... and of course you'd need to keep compatible, so you need WHERE(..,/null)

- > But even so: I've always felt that allowing
- > indexing by out of bounds indices is more a bug that a feature. Why
- > is it possible? Can you think of an example where it is useful, or
- > necessary?

Uh - no, *I* don't think it's a good thing. RSI does (did?) :-)

- > If this is necessary for legacy reasons, it might be possible to make
- > () and [] behave differently in this case? Possibly a missed
- > opportunity when [] came in!

How'bout {}?:-) I'm not *just* kidding. [] work as both array constructors and indexing brackets, so {} could work as both structure constructors and indexing brackets..

```
[..]
                         ; Would be allowed, but does nothing
     array[NaN] = 5
>>
>
> This could well be possible as an easy-to-do work-around. In that
> case, where would have to return NaN not -1.
(Yes - though with a WHERE(.../nan) switch)
> The other possibility (which would only work for this special case,
> but its quite a common special case) is that -1 would count as a
> "special" value & assigning to array[-1] would, as a special case,
> just do nothing rather than producing an error message.
> Incidentally, I've just realised how dangerous the out-of-bounds stuff
> is:
  array([where(array eq false)])='stoat'
>
```

> assigns to the first element...

And you can *bet* some program(mer)s out there are counting on
exactly this as a *feature*! Sorry to say so, butthat's why
you'd have to introduce a keyword switch in WHERE.

Regards,

Stein Vidar