Subject: Re: IDL-way to use WHERE result as subscripting indices without having to do IF count
Posted by Heinz Stege on Fri, 20 May 2011 15:22:17 GMT

On Fri, 20 May 2011 14:06:58 +0100, Robin Wilson wrote:

> Hi all,
>
> I'm sure this has been discussed before, but I can't find the
> discussion. I have a lot of code that looks like the following:
>
> Array[WHERE(Input LT 5)] = 2
> Array[WHERE(Input GT 7 AND OtherArray LT 9) = 6
> etc...
>
> I know I shouldn't be using WHERE like that without checking the count
> of items returned, as it will crash if there are no values in Input less
> than 5. My question is: is there an IDL-way to do this, without putting
> in loads of IF count NE 0 statements above each of the assignemnts?
> That'll make the code a lot longer, a lot messier etc.
>
> Any ideas?
>
> Cheers,
>
> Robin

Hi Robin,

for IDL versions previous 8.0 you can use a wrapper function for
WHERE:

```
function anywhere,array,subscripts,count=count
compile_opt idl2
subscripts=where(array,count)
return,count ge 1
end
```

With this function you still need the IF statement, however you don't
need more than one line:

```
if anywhere(Input LT 5,ii) then Array[ii] = 2
if anywhere(Input GT 7 AND OtherArray LT 9,ii) then Array[ii] = 6
```

Cheers, Heinz