Subject: Zero vector detection in IDL Posted by Frank Morgan on Mon, 28 Jun 1999 07:00:00 GMT View Forum Message <> Reply to Message

Given a big byte or integer array (actually a 1-D vector), is there a fast IDL way to check whether any non-zero elements exist?

Something like "if (total(x) EQ 0)..." or a where() construct will work, but scans the whole vector when the first non-zero element is enough to answer the question. max(x) is even worse.

```
On the other hand:
for i=0,n-1 do begin
    if (x(i) NE 0) then begin
        (it's not all zero)
        goto, BREAK
    endif
    endif
    BREAK:
will stop early if possible, but looping a conditional is maybe not the fastest structure in IDL.
```

An internal command that implements the loop concept would be what I'm looking for I think but I don't know if it exists.

Any better ideas?

Thanks, Frank frank.morgan@jhuapl.edu