Posted by Joost Aan de Brugh on Fri, 03 Oct 2008 15:15:12 GMT

Subject: Re: array concatenation View Forum Message <> Reply to Message On Oct 3, 1:19 pm, lecacheux.al...@wanadoo.fr wrote: > On 3 oct, 13:12, lecacheux.al...@wanadoo.fr wrote: > I got a strange error when using the array concatenation construct > within a large loop (a few thousands). > something like: b = 0B> for i=0,999 do begin > ... compute a = array of bytes (a few 100) ... b = [b, a]> endfor > > This could crash IDL and even, randomly, crash the system (Win2K). > Nothing found by catching errors. > Is there some limits in the implicit addressing of such arrays? > The error disappeared when compiling with COMPILE OPT IDL2. Hello, Maybe it has something to do with the array descriptor. Anyway, in a large group concatenation is not the most elegant way. In Matlab (a language similar to IDL), you get a warning if you use such a construction. It has to do with the fact that if your array grows, you ask your system for more space. A safer way is to ask for enough space

at once.

```
afh = a few 100
b = BytArr(afh*1000); Here is where you ask for a lot of space.
for i=0,999 do begin
 ... compute a = array of bytes (a few 100) ...
 b[i*afh:(i+1)*afh-1] = a; Now b does not grow in the loop
end
Or use a 2D array
b = BytArr(afh,1000); Here, you ask for the space again.
for i=0,999 do begin
 ... compute a = array of bytes (a few 100) ...
 b[*,i] = a; Now b does not grow in the loop
end
```

Cheers, Joost

b = Reform(b,afh*1000); Or b = Reform(b,N Elements(b))

It is a bit harder if you have differen	t 'a few	100's	for	each
iteration				

Page 2 of 2 ---- Generated from comp.lang.idl-pvwave archive