
Subject: Re: Naive pointer question ?

Posted by [Bhautik Joshi](#) on Thu, 24 Jan 2002 22:17:33 GMT

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>> <BIG snip>

>> p.s. Common blocks are not evil. They are unfairly maligned (and

> misaligned) but should be used

>> judiciously.... just like GOTOs.

>

> Sorry, I couldn't resist this!!! The problem with common blocks two-fold,

> both relating to their global scope (ie: the reason for using them in the

> first place). First, if you have two programs running in an IDL session

> (e.g. a pair of widget programs) which both use the same common block, each

> will corrupt the others data. In fact, you might even just be using two

> routines that don't realise another is accessing the common block. Secondly,

> you cannot trace the changes in a common block, so debugging becomes a

> nightmare. This is even worse in IDL when variables can change TYPE as well

> as value.

> That's it. Rant over:-) Let's just say, I gave them up a LONG time ago!-)

I'll concur with you there :)

Yes, when a lot of time is spent designing the program, common blocks

can be a reasonable and an easy alternative to more complex options.

However, things like goto and global variables went out of fashion a

very long time ago and have long since proven to be, in event driven

programming at least, unsafe and unpredictable. When you are maintaining

a piece of legacy code with common blocks all over the place you don't

really have any choice but to use them (or alternatively rebuild the

whole damn thing from the ground up!) but, I for one prefer to avoid

them.

In terms of event driven programming, without proper logical locking

mechanisms (mutual exclusion -> semaphores/monitors etc.), global

variables are dangerous. Your widget program that reads and writes to,

or worse, depends on a global variable shared between many widgets all

doing things at different times, might get into a race condition and

then things get **really** ugly. I can't really think of an example off

the top of my head, so go see:

<http://www.cs.mtu.edu/~shene/NSF-3/e-Book/RACE/1st-attempt.html>

(just something I found via google)

Perhaps I'm just nuts and its too early in the morning for me; please

correct me if I'm wrong :)

cheers,

Bhautik

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