

RE: Efficiency re: Module Sequence in a Project feb08

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- *From:* Neal Zimm <nealzimm@xxxxxxxxxx>
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Dear Jims, T and C,

Well, I'm 99.999 percent sure of what I asked, and this is a bit long, but I want to be careful as you guys are not often malinformed. So if you agree with what's below, then please comment on my conclusion at the end.

Thanks.

For sure, the VBE PRESENTS the module names in alpha order. When you rename a module via PFkey 4, you see it move, but the rename does not change the physical location of the code. (Kinda the same as the looking at macros within a module, the drop down list is alpha, but the macro names don't HAVE to be in that sequence. I verified this by looking at the code in Full Module view in the VBE.)

I downloaded Rob Bovey's Documentor addin and am modifying it to create a documentation tool for my addin. He's reading something called the VIBDE sequentially to pick up module names and the subs/functions within them.

He recommends modules be no larger than 64K, hence the # of modules I have. Mine were much larger before splitting them up.

When Documentor listed the module names, they were NOT in alpha sequence. This was a surprise to me, too. I stepped thru his code to prove it on a small project.

So, I have "Option Explicit" in every module as the 1st line of code in the declare section.

I renamed some modules to change the look of project explorer module list.

I looked for "option explicit" in Down mode, and sure enough, the grey bar showing what module you're "in" jumped around, it did not go from top to bottom in the project explorer list that you see.

I've been in systems quite some time, but am quite naive about Excel and VBA, but,

Conclusion:

There's gotta be an index somewhere, (deeply hidden i'm sure) so when you "Call MacName(x, y)" Excel knows where to go to start MacName up. My guess is that this index is in alpha sequence and points to the compiled macro.

So, it made sense to me that if I have a sub or function, that's used a LOT, by putting it at the top of the list, given the size of my addin, it will start up sooner.

How much sooner is the issue.

I had hoped to save some development time before testing the theory with some timer code I copied that gets to .000000 seconds, which is why I made the posting here.

Thanks again for your time, we all appreciate your voluntary efforts.

Neal

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"Jim Thomlinson" wrote:

I have never heard of the modules not being in Alpha order. Just above the project explorer is a Folder icon. Toggling that on/off puts the modules, sheets, ... etc into folders.

As for how do you organize things. I tend to have a module called Globals where I define all of my globals. If a type def was going to be used globally then I would put it in there. If the type def applies to only one module then I would put it there. The most important thing is to organize things logically and to be consistent. Put like stuff together. If you have 100 modules then that is getting to the point of being unmanagable. I would be inclined to consolidate things into fewer modules.

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HTH...

Jim Thomlinson

"Neal Zimm" wrote:

HI All,
I'm a beginning developer for my first, and a pretty big addin. (over 100 modules) Perhaps you can save me some time in putting a timer on what's below.

I've noticed that the physical sequence of modules is as you insert them

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into the project and not by how you name them. I have NO clue how Excel accesses the modules and the macros within them.

Within a month, I'll be moving the code to a "QA" project .xla file and will have the chance to resequence the top to bottom module order.

Re: best practices, are there significant efficiencies to be gained if:

1. Global public variables, record types, are in the modules at "the top" ?

2. The most used Sub's and Functions are in the "earlier" modules ?

3. Should Public Type XXXXX be in the same module as the code which uses

them the most, or doesn't it matter ? (That's where they are now to use the "split screen" function of the VBA editor.)

Other tips would be appreciated.

Thanks

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Neal Z