2021 Aug 30 OneAPI **Toolkits and Visual Studio 2019 Tips** Updated to VS 2022 no changes Updated to 2023 April **Option on Compiler**

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MS Visual Studio

This interface is a lot like the old Compaq but enough different to make it very frustrating to learn

This is the open screen click Create a new Project

Visual Studio 2019

Open recent

Search recent (Alt+S)

ρ-

Older



C:\Users\Gary\source\repos\ConsoleApplication1

Get started



Clone a repository

Get code from an online repository like GitHub or Azure DevOps



Open a project or solution

Open a local Visual Studio project or .sln file



Open a local folder Navigate and edit code within any folder



Create a new project

Choose a project template with code scaffolding to get started

Continue without code →

Select Empty Project Fortran Windows Console

Create a new project

Recent project templates

🖆 Empty Project	Fortran
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A solution in VS may have multiple projects.

To date I have only one so the box is checked to put the solution and project in the same folder.

Note: Rand2 is a one dof random response program used for this demo.

Configure your new project	
Empty Project Fortran Windows Console	
Project name	
Rand2	
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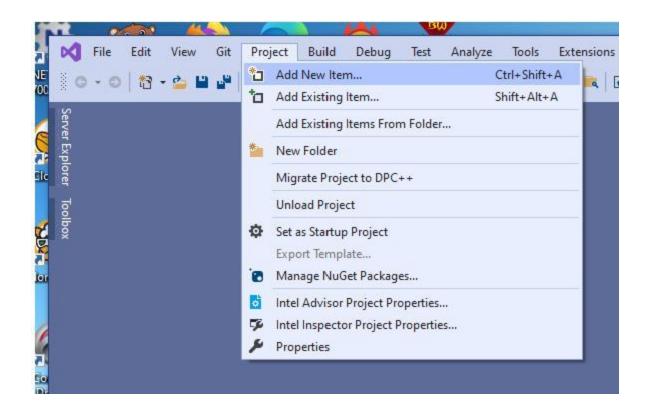
Place solution and project in the same directory

This is the open screen. Now need to add the Rand2 fortran file to the project.

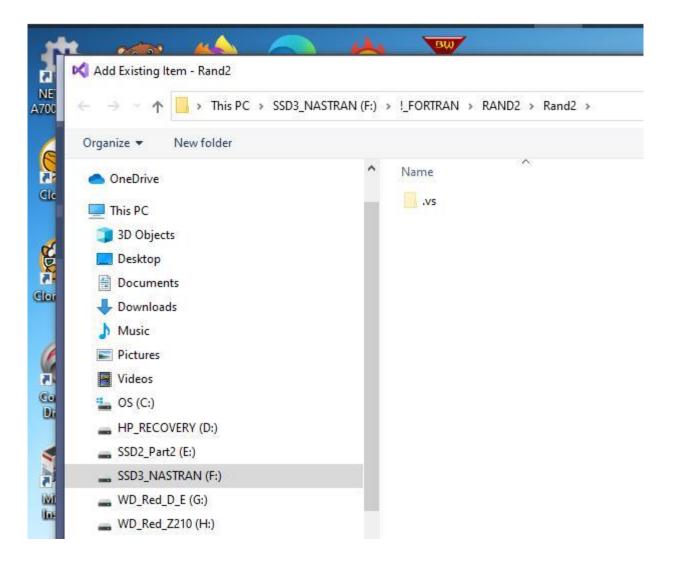
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Add existing Item



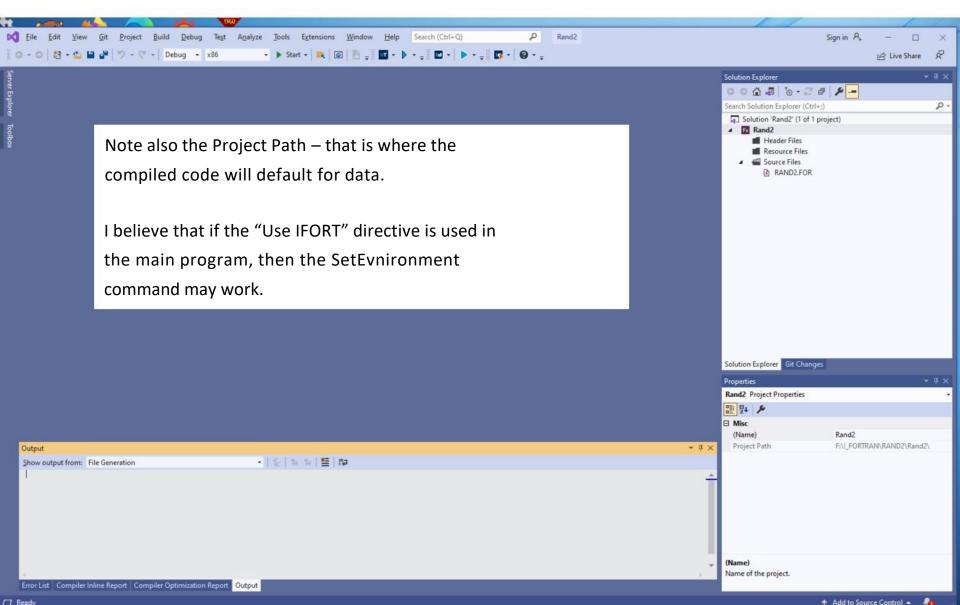
Project added Rand2 folder below the RAND2 pre-existing folder



Select the RAND2 folder where the code is

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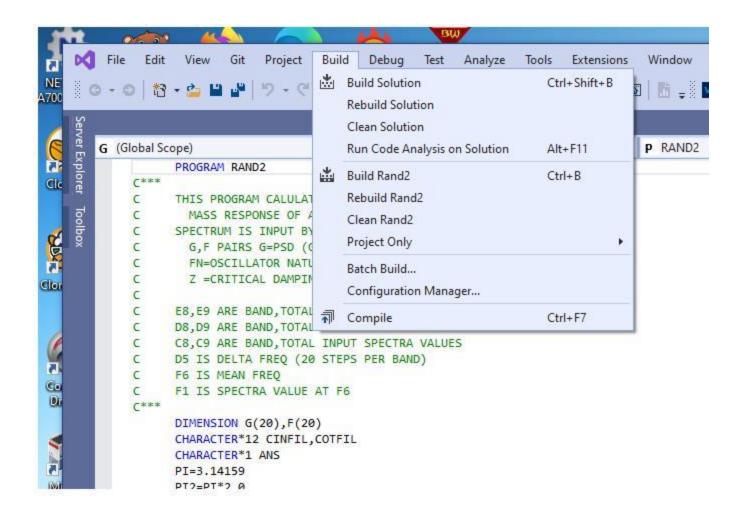
Notice that RAND2.FOR is now listed in the "Solution Explorer" box – <u>Case Sensitive!!!!</u>



Click on any file in the list, in this case RAND2, and the code appears.

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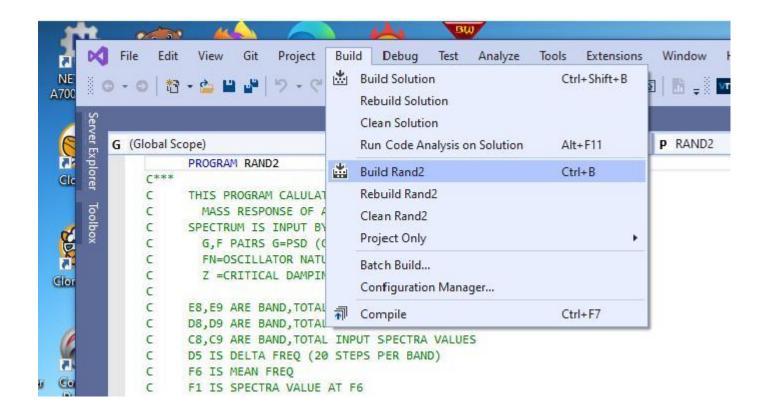
I usually compile at this point



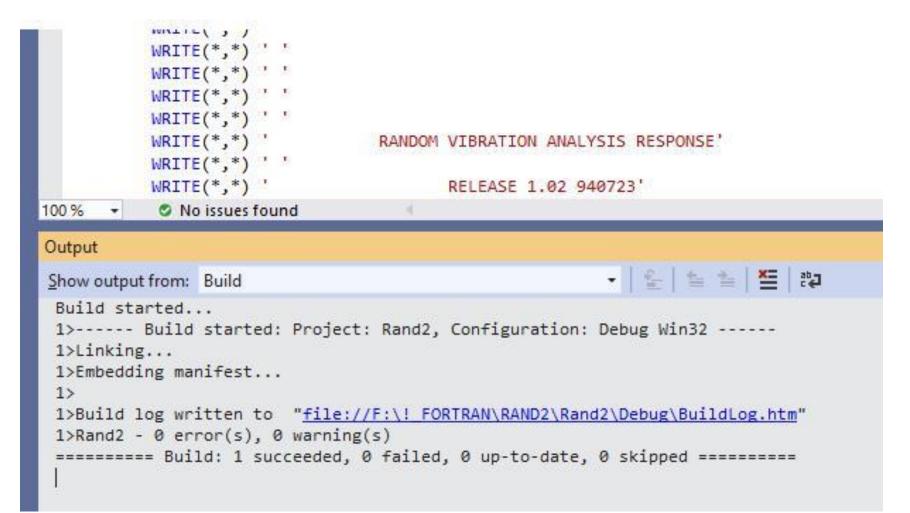
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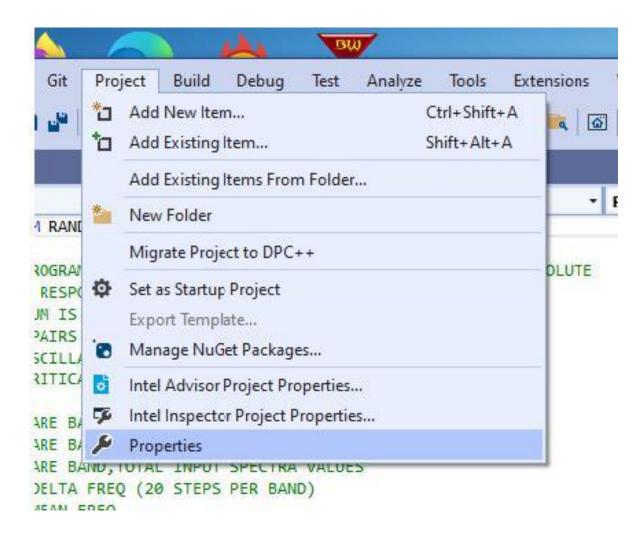
Build solution – this invokes the linker, so unresolved externals are found here



1 succeeded is good news, we have an executable now. By default is uses dlls, so need to make a "Static" program.



Select Project Properties Note: No Project Name, must have one –see later slides



/Qsave saves variables in a subroutine, increases memory /align:dcommons makes sure 64 bit variables are correctly aligned (NASTRAN had to have these to compile correctly, as well as /check:none turn off bounds check since some older FORTRAN used dimension of (1) and later used more – a part of older FORTAN that makes common an issue with the "Elites".

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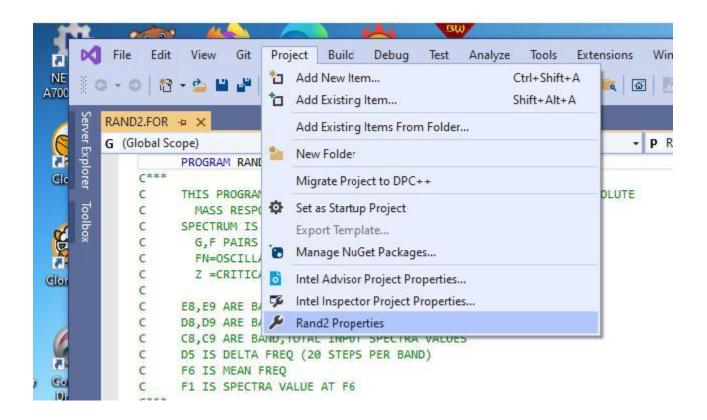
Note: *Debug Multithreaded…* is an option on the Runtime Library tab

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07-03-2021 02:43 PM 276 Views	
✓ Problem solved: in Project > Properties > Cinfig Properties > Forta (/libs:dll /threads) to Debug Multithreaded (/libs:static /threads /d	ran > Libraries > Runtime Library, I changed from <i>Multithread DLL</i> Ibglibs). Then the .exe file runs normally and generates the intended file.
I hope for my (basic) use of VS this does not have collateral effects.	
EDIT: see @Steve_Lionel 's warning regarding side effects.	
View solution in original post	
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Make sure that you see the Project name (Rand2) before Properties Sometimes this does not show up – wtf?



Need to see Libraries under Fortran

onfiguration: Active(Debug)	✓ Platform: x64	~	Configuration Manager
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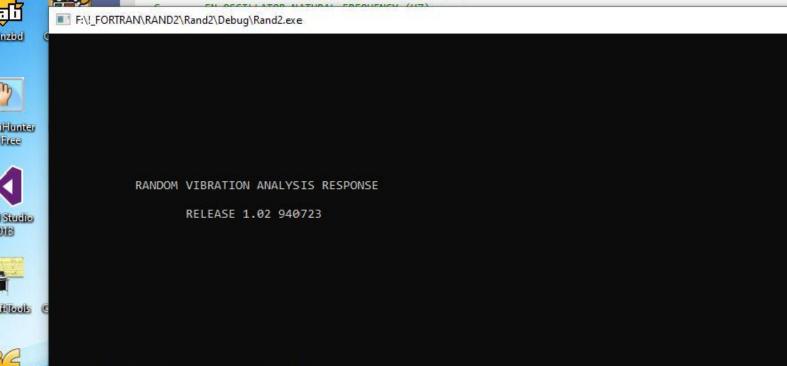
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Finally got it to run – the systems wants to use dlls – had to repeat a few times for it to "take"



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Show output from: Build Rebuild All started: Project: Rand2, Configuration: Debug Win32 -----1>----

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Release

Setting Data Type and Alignment

Alignment of data affects these kinds of variables:

- Those that are dynamically allocated. (Dynamically allocated data allocated with ALLOCATE is 8-byte aligned.)
- · Those that are members of a data structure
- · Those that are global or local variables
- · Those that are parameters passed on the stack

For best performance, align data as follows:

- · Align 8-bit data at any address.
- · Align 16-bit data to be contained within an aligned four byte word.
- · Align 32-bit data so that its base address is a multiple of four.
- · Align 64-bit data so that its base address is a multiple of eight.
- Align 128-bit data so that its base address is a multiple of sixteen (8-byte boundaries).

Causes of Unaligned Data and Ensuring Natural Alignment

For optimal performance, make sure your data is aligned naturally. A natural boundary is a memory address that is a multiple of the data item's size. For example, a REAL (KIND=8) data item aligned on natural boundaries has an address that is a multiple of 8. An array is aligned on natural boundaries if all of its elements are so aligned.

All data items whose starting address is on a natural boundary are naturally aligned. Data not aligned on a natural boundary is called unaligned data.

Although the Intel® compiler naturally aligns individual data items when it can, certain Fortran statements can cause data items to become unaligned.

You can use the align command-option to ensure naturally aligned data, but you should check and consider reordering data declarations of data items within common blocks, derived-type structures, and record structures as follows:

- · Carefully specify the order and sizes of data declarations to ensure naturally aligned data.
- · Start with the largest size numeric items first, followed by smaller size numeric items, and then non-numeric (character) data.

The !DEC\$ ATTRIBUTES ALIGN directive specifies the byte alignment for a variable. It is not supported for ALLOCATABLE/POINTER variables.

Common blocks (COMMON statement), derived-type data, and Fortran 77 record structures (RECORD statement) usually contain multiple items within the context of the larger structure.

The following statements can cause unaligned data:

Statement	Options	Description
Common blocks (COMMON statement)	commons OF dcommons	The order of variables in the COMMON statement determines their storage order. Unless you are sure that the data items in the common block will be naturally aligned, specify either -align commons or -align dcommons (Linux*) or /align:commons Or /align:dcommons (Windows*), depending on the largest data size used.

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Fortran Compiler Option

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Select the compiler to use Select the item to get the dropdown box!!

Configuration: Active(Release)	✓ Platform: x64	✓ Configuration Manager	
 ▲ Configuration Properties ▲ General Debugging ▲ Fortran General Optimization Debugging Preprocessor Code Generation Language Compatibility Diagnostics Data Floating Point External Procedures Output Files Run-time Libraries Command Line ♦ Linker 	Use Compiler Output Directory Intermediate Directory Target Name Target Extension Extensions to Delete on Clean Build Log File Configuration Type Whole Program Optimization	IFX Intel® Fortran Compiler IFX Intel® Fortran Compiler IFORT Intel® Fortran Compiler Classic <inherit defaults="" from="" project=""> .cxc *.cod;*_genmod.*;*.obj;*.mod;*.smod;*.pdb;*.asm;*.lst;*.ma \$(IntDir)\BuildLog.htm Application No</inherit>	4
Resources MIDL	Use Compiler Use Compiler		