# First

./configure --with-c-cpp

checking build system type... x86\_64-pc-mingw64

checking host system type... x86\_64-pc-mingw64

checking how to print strings... printf

checking for gcc... no

checking for cc... no

checking for cl.exe... no

configure: error: in `/c/GMAT\_Compiling/gmat-git/depends/snopt7':

configure: error: no acceptable C compiler found in $PATH

See `config.log' for more details

## Solution

Remove /mingw64/bin from path

export PATH=$(echo $PATH | sed -e 's/:\/mingw64\/bin//')

have C:\msys64\mingw64\bin in path instead

# Second Error

$ ./configure --with-c-cpp

checking build system type... x86\_64-pc-mingw64

checking host system type... x86\_64-pc-mingw64

checking how to print strings... printf

checking for gcc... gcc

checking whether the C compiler works... yes

checking for C compiler default output file name... a.exe

checking for suffix of executables... .exe

checking whether we are cross compiling... no

checking for suffix of object files... o

checking whether we are using the GNU C compiler... yes

checking whether gcc accepts -g... yes

checking for gcc option to accept ISO C89... none needed

checking for a sed that does not truncate output... /usr/bin/sed

checking for grep that handles long lines and -e... /usr/bin/grep

checking for egrep... /usr/bin/grep -E

checking for fgrep... /usr/bin/grep -F

checking for ld used by gcc... C:/msys64/mingw64/x86\_64-w64-mingw32/bin/ld.exe

checking if the linker (C:/msys64/mingw64/x86\_64-w64-mingw32/bin/ld.exe) is GNU ld... yes

checking for BSD- or MS-compatible name lister (nm)... /c/msys64/mingw64/bin/nm -B

checking the name lister (/c/msys64/mingw64/bin/nm -B) interface... BSD nm

checking whether ln -s works... no, using cp -pR

checking the maximum length of command line arguments... 8192

checking how to convert x86\_64-pc-mingw64 file names to x86\_64-pc-mingw64 format... func\_convert\_file\_msys\_to\_w32

checking how to convert x86\_64-pc-mingw64 file names to toolchain format... func\_convert\_file\_msys\_to\_w32

checking for C:/msys64/mingw64/x86\_64-w64-mingw32/bin/ld.exe option to reload object files... -r

checking for objdump... objdump

checking how to recognize dependent libraries... file\_magic ^x86 archive import|^x86 DLL

checking for dlltool... dlltool

checking how to associate runtime and link libraries... func\_cygming\_dll\_for\_implib

checking for ar... ar

checking for archiver @FILE support... @

checking for strip... strip

checking for ranlib... ranlib

checking for gawk... gawk

checking command to parse /c/msys64/mingw64/bin/nm -B output from gcc object... ok

checking for sysroot... no

checking for a working dd... /usr/bin/dd

checking how to truncate binary pipes... /usr/bin/dd bs=4096 count=1

checking for mt... no

checking if : is a manifest tool... no

checking how to run the C preprocessor... gcc -E

checking for ANSI C header files... yes

checking for sys/types.h... yes

checking for sys/stat.h... yes

checking for stdlib.h... yes

checking for string.h... yes

checking for memory.h... yes

checking for strings.h... yes

checking for inttypes.h... yes

checking for stdint.h... yes

checking for unistd.h... yes

checking for dlfcn.h... no

checking for objdir... .libs

checking if gcc supports -fno-rtti -fno-exceptions... no

checking for gcc option to produce PIC... -DDLL\_EXPORT -DPIC

checking if gcc PIC flag -DDLL\_EXPORT -DPIC works... yes

checking if gcc static flag -static works... yes

checking if gcc supports -c -o file.o... yes

checking if gcc supports -c -o file.o... (cached) yes

checking whether the gcc linker (C:/msys64/mingw64/x86\_64-w64-mingw32/bin/ld.exe) supports shared libraries... yes

checking whether -lc should be explicitly linked in... yes

checking dynamic linker characteristics... Win32 ld.exe

checking how to hardcode library paths into programs... immediate

checking whether stripping libraries is possible... yes

checking if libtool supports shared libraries... yes

checking whether to build shared libraries... yes

checking whether to build static libraries... yes

checking for a BSD-compatible install... /usr/bin/install -c

checking for gfortran... no

checking for nagfor... no

checking for ifort... ifort

checking whether we are using the GNU Fortran compiler... no

checking whether ifort accepts -g... no

checking if libtool supports shared libraries... yes

checking whether to build shared libraries... yes

checking whether to build static libraries... yes

checking for ifort option to produce PIC... -DDLL\_EXPORT

checking if ifort PIC flag -DDLL\_EXPORT works... no

checking if ifort static flag works... no

checking if ifort supports -c -o file.o... yes

checking if ifort supports -c -o file.o... (cached) yes

checking whether the ifort linker (C:/msys64/mingw64/x86\_64-w64-mingw32/bin/ld.exe) supports shared libraries... yes

checking dynamic linker characteristics... Win32 ld.exe

checking how to hardcode library paths into programs... immediate

checking for gcc... (cached) gcc

checking whether we are using the GNU C compiler... (cached) yes

checking whether gcc accepts -g... (cached) yes

checking for gcc option to accept ISO C89... (cached) none needed

checking for g++... g++

checking whether we are using the GNU C++ compiler... yes

checking whether g++ accepts -g... yes

checking how to run the C++ preprocessor... g++ -E

checking for ld used by g++... C:/msys64/mingw64/x86\_64-w64-mingw32/bin/ld.exe

checking if the linker (C:/msys64/mingw64/x86\_64-w64-mingw32/bin/ld.exe) is GNU ld... yes

checking whether the g++ linker (C:/msys64/mingw64/x86\_64-w64-mingw32/bin/ld.exe) supports shared libraries... yes

checking for g++ option to produce PIC... -DDLL\_EXPORT -DPIC

checking if g++ PIC flag -DDLL\_EXPORT -DPIC works... yes

checking if g++ static flag -static works... yes

checking if g++ supports -c -o file.o... yes

checking if g++ supports -c -o file.o... (cached) yes

checking whether the g++ linker (C:/msys64/mingw64/x86\_64-w64-mingw32/bin/ld.exe) supports shared libraries... yes

checking dynamic linker characteristics... Win32 ld.exe

checking how to hardcode library paths into programs... immediate

checking how to get verbose linking output from ifort... configure: WARNING: compilation failed

checking for Fortran libraries of ifort...

checking Fortran 90 module output flag... unknown

checking Fortran 90 module inclusion flag... unknown

checking whether make sets $(MAKE)... no

checking for C interface... yes

checking for C++ interface... yes

checking for f2c/C support... no

checking whether to build f2c... no

checking for default size of Fortran integer... configure: WARNING: could not determine integer size -- continuing with 32-bit integers

sed: can't read confdefs.h: No such file or directory

configure: creating ./config.status

config.status: error: cannot find input file: `GNUmakefile.in'

## Solution

Need ifort???

Need Fortran compiler that works

Can get precompiled libraries from SNOPT directly (3-month time-limited):

https://ccom.ucsd.edu/~optimizers/downloads/request/academic/

Or with docker:::::

vscode ➜ /workspaces/gmat-git/depends/snopt7 (GMAT-R2020a) $ ./configure --with-c-cpp

checking build system type... x86\_64-pc-linux-gnu

checking host system type... x86\_64-pc-linux-gnu

checking how to print strings... printf

checking for gcc... gcc

checking whether the C compiler works... yes

checking for C compiler default output file name... a.out

checking for suffix of executables...

checking whether we are cross compiling... no

checking for suffix of object files... o

checking whether we are using the GNU C compiler... yes

checking whether gcc accepts -g... yes

checking for gcc option to accept ISO C89... none needed

checking for a sed that does not truncate output... /usr/bin/sed

checking for grep that handles long lines and -e... /usr/bin/grep

checking for egrep... /usr/bin/grep -E

checking for fgrep... /usr/bin/grep -F

checking for ld used by gcc... /usr/bin/ld

checking if the linker (/usr/bin/ld) is GNU ld... yes

checking for BSD- or MS-compatible name lister (nm)... /usr/bin/nm -B

checking the name lister (/usr/bin/nm -B) interface... BSD nm

checking whether ln -s works... yes

checking the maximum length of command line arguments... 1572864

checking how to convert x86\_64-pc-linux-gnu file names to x86\_64-pc-linux-gnu format... func\_convert\_file\_noop

checking how to convert x86\_64-pc-linux-gnu file names to toolchain format... func\_convert\_file\_noop

checking for /usr/bin/ld option to reload object files... -r

checking for objdump... objdump

checking how to recognize dependent libraries... pass\_all

checking for dlltool... no

checking how to associate runtime and link libraries... printf %s\n

checking for ar... ar

checking for archiver @FILE support... @

checking for strip... strip

checking for ranlib... ranlib

checking for gawk... no

checking for mawk... mawk

checking command to parse /usr/bin/nm -B output from gcc object... ok

checking for sysroot... no

checking for a working dd... /usr/bin/dd

checking how to truncate binary pipes... /usr/bin/dd bs=4096 count=1

./configure: line 5887: /usr/bin/file: No such file or directory

checking for mt... no

checking if : is a manifest tool... no

checking how to run the C preprocessor... gcc -E

checking for ANSI C header files... yes

checking for sys/types.h... yes

checking for sys/stat.h... yes

checking for stdlib.h... yes

checking for string.h... yes

checking for memory.h... yes

checking for strings.h... yes

checking for inttypes.h... yes

checking for stdint.h... yes

checking for unistd.h... yes

checking for dlfcn.h... yes

checking for objdir... .libs

checking if gcc supports -fno-rtti -fno-exceptions... no

checking for gcc option to produce PIC... -fPIC -DPIC

checking if gcc PIC flag -fPIC -DPIC works... yes

checking if gcc static flag -static works... yes

checking if gcc supports -c -o file.o... yes

checking if gcc supports -c -o file.o... (cached) yes

checking whether the gcc linker (/usr/bin/ld) supports shared libraries... yes

checking whether -lc should be explicitly linked in... no

checking dynamic linker characteristics... GNU/Linux ld.so

checking how to hardcode library paths into programs... immediate

checking whether stripping libraries is possible... yes

checking if libtool supports shared libraries... yes

checking whether to build shared libraries... yes

checking whether to build static libraries... yes

checking for a BSD-compatible install... /usr/bin/install -c

checking for gfortran... no

checking for nagfor... no

checking for ifort... no

checking whether we are using the GNU Fortran compiler... no

checking whether accepts -g... no

checking for gcc... (cached) gcc

checking whether we are using the GNU C compiler... (cached) yes

checking whether gcc accepts -g... (cached) yes

checking for gcc option to accept ISO C89... (cached) none needed

checking for g++... g++

checking whether we are using the GNU C++ compiler... yes

checking whether g++ accepts -g... yes

checking how to run the C++ preprocessor... g++ -E

checking for ld used by g++... /usr/bin/ld

checking if the linker (/usr/bin/ld) is GNU ld... yes

checking whether the g++ linker (/usr/bin/ld) supports shared libraries... yes

checking for g++ option to produce PIC... -fPIC -DPIC

checking if g++ PIC flag -fPIC -DPIC works... yes

checking if g++ static flag -static works... yes

checking if g++ supports -c -o file.o... yes

checking if g++ supports -c -o file.o... (cached) yes

checking whether the g++ linker (/usr/bin/ld) supports shared libraries... yes

checking dynamic linker characteristics... (cached) GNU/Linux ld.so

checking how to hardcode library paths into programs... immediate

checking how to get verbose linking output from ... configure: WARNING: compilation failed

checking for Fortran libraries of ...

checking Fortran 90 module output flag... unknown

checking Fortran 90 module inclusion flag... unknown

checking whether make sets $(MAKE)... yes

checking for C interface... yes

checking for C++ interface... yes

checking for f2c/C support... no

checking whether to build f2c... no

checking for default size of Fortran integer... configure: WARNING: could not determine integer size -- continuing with 32-bit integers

sed: can't read confdefs.h: No such file or directory

configure: creating ./config.status

config.status: error: cannot find input file: `GNUmakefile.in'