

FORTRAN – XP Versions – Prof. Richard B. Goldstein

Numerical Analysis - for all environments:

- Copy the appropriate file from the CD (in the folder **programs/fortran**) or write the Fortran code in a text processor such as **Notepad**. Store on either the A drive's floppy disk or the temporary D drive hard disk.
- Save the file with extension **.for** when using the DOS version, **.f** for the Force 2.07 version, and either **.f** or **.f90** for the Compaq/Digital Developer Studio version.

- The Force and Developer Studio versions do not like the statements:

```
OPEN(UNIT=5, FILE='CON', ACCESS='SEQUENTIAL')  
or OPEN(UNIT=6, FILE='CON', ACCESS='SEQUENTIAL')
```

Reduce these (similar for UNIT=6) to

```
OPEN(UNIT=5, ACCESS='SEQUENTIAL')  
or OPEN(UNIT=5)  
or just eliminate them completely  
    (their are not needed – by default #5 is keyboard, #6 is screen)
```

- For all versions many programs ask: *Has the function been created in the program?* The answer can be entered as 'y' or 'Y' once you have created (in the Fortran code) the function. Entering a simple y or Y without the single quote will fail. Another option is to change the input statement from

```
READ(5,*) AA  
  
to READ(5,111) AA  
   111 FORMAT(A)
```

1980's – DOS VERSION



- [1] From the **start** button select **All Programs** ►, then find **programming**, and then **Fortran DOS**.
- [2] Type: **codefor a:\yourfilename** to create **yourfilename.exe** in the **C:\ms5** directory. There is another batch file that can be used when the program contains graphics: **run_fcpc a:\yourfilename** Note that for either batch file **do not** include the **.for** extension. Another useful file created is **yourfilename.lst** that contains any error messages along with the file listing by line number.
- [3] By typing: **yourfilename** the program will be executed.


- [4] To print the program's output you will need to send it to a text file such as '**a:\fileout.txt**'
- [5] A listing of your program should be made from Notepad's File/Print.

FORCE 2.07 VERSION


- [1] From the **start** button select **All Programs ►**, then find **programming**, and then **Force 2.0**, and again **Force 2.0**.
- [2] From the pull-down menu select: **File / Open** or **Ctrl + O**
- [3] From the pull-down menu select: **Run / Compile** or **Ctrl + F9**
- [4] From the pull-down menu select **Run /Run** or **F9**
- [5] To print the output you will need to send it to a text file such as '**a:\fileout.txt**'
- [6] A listing of your program should be made using the usual Windows: **File / Print**

COMPAQ VISUAL FORTRAN 6.0 / DEVELOPER STUDIO or

Using DOS Prompts:

- [1] From the **start** button select **All Programs ►**, then find **programming**, and then **Compaq Visual Fortran 6.0 / Fortran Command Prompt:** 
- [2] Type: **a:** (this puts the focus on the A drive)
- [3] To compile and link type: **df yourfilename** (creates yourfilename.exe)
- [4] To execute type: **yourfilename** (this executes the .exe file)
- [5] To print the output you will need to send it to a text file such as '**a:fileout.txt**'
- [6] A listing of your program should be made using the usual Windows: **File / Print** from Notepad.
- [7] If the program contains graphs, then **df /libs:qwins yourfilename** is needed to compile and link. Also, use Ctrl+Enter to adjust screen size. Check to see if the file **yourfilename.exe** is on the A or C drive.
- [8] If you need a listing file that contains any error messages that may have been produced during the compile and link use: **df /list yourfilename**

Using Developer Studio purely with Windows commands:

- [1] From the **start** button select **All Programs ►**, then find **programming**, and then **Compaq Visual Fortran 6.0 / Developer Studio:** 
- [2] From the pull-down menu choose **File / New**
- [3] Choose either
 - [A] Fortran Console Application
 - or [B] Fortran Standard Graphics or QuickWin Application
- [4] Project name: **YourChoice**
- [5] Location: **A:\YourChoice**
- [6] When asked to choose the type of project select
 - [A] an empty project
 - or [B] standard graphics

Then select [Finish], [OK].
- [7] To create a new file:
File/New and under the Files Tab select Text File

To load an existing file:
File/Open and browse to find: **A:\YourFilename.ext**
- [8] To compile: **Build/Compile** or **Ctrl + F7**
When asked if you wish to add this file to the project, press [Yes].
- [9] To create the exe file: **Build/Execute** or **F7**
When asked if you want to build it, press [Yes]. This may take a few minutes to create and store the exe file on the A drive in the **YourChoice\Debug** folder.
- [10] The listing can be printed by **File/Print** and to print the output you will need to send it to a text file such as **'a:fileout.txt'**