Procedure for Batch Compiling and Linking MYSTRAN

PREAMBLE:

The following is the batch procedure to compile and link MYSTRAN code

The same procedure is used for both production and debug code (use prod instead of deb and C instead of D). The process described herein for batch file compilation and linking of MYSTRAN code presumes a file structure similar to that found on the MYSTRAN-FEA-Progran zip file but in a slightly different fashion as shown in Figure 1, below. This file structure is on the D: drive of the author's computer but, with a little modification to some of the batch files, it can be on any drive. The file structure in the MYSTRAN-FEA-Progran zip file has the same subdirectories so files from that repository can be copied one-to-one directly to corresponding subdirectories shown in Figure 1.

Before beginning make sure that the following batch files are located in the subdirectries as indicated (Note: the \D\ would be \C\ if working production code):

Files: CEMG-ALL.BAT , CEMG-ALL_I.BAT must be in D:\MYSTRAN\D\EMG

Files: CLK1-ALL.BAT , CLK1-ALL_I.BAT   must be in D:\MYSTRAN\D\LK1

Files: CLK2-ALL.BAT , CLK2-ALL_I.BAT   must be in D:\MYSTRAN\D\LK2

Files: CLK3-ALL.BAT , CLK3-ALL_I.BAT   must be in D:\MYSTRAN\D\LK3

Files: CLK4-ALL.BAT , CLK4-ALL_I.BAT   must be in D:\MYSTRAN\D\LK4

Files: CLK5-ALL.BAT , CLK5-ALL_I.BAT   must be in D:\MYSTRAN\D\LK5

Files: CLK6-ALL.BAT , CLK6-ALL_I.BAT   must be in D:\MYSTRAN\D\LK6

Files: CLK9-ALL.BAT , CLK9-ALL_I.BAT   must be in D:\MYSTRAN\D\LK9

Files: CUTIL-ALL.BAT, CUTIL-ALL_I.BAT   must be in D:\MYSTRAN\D\UTIL

Files: CMOD1-ALL.BAT, CMOD2-ALL.BAT must be in D:\MYSTRAN\D\Modules
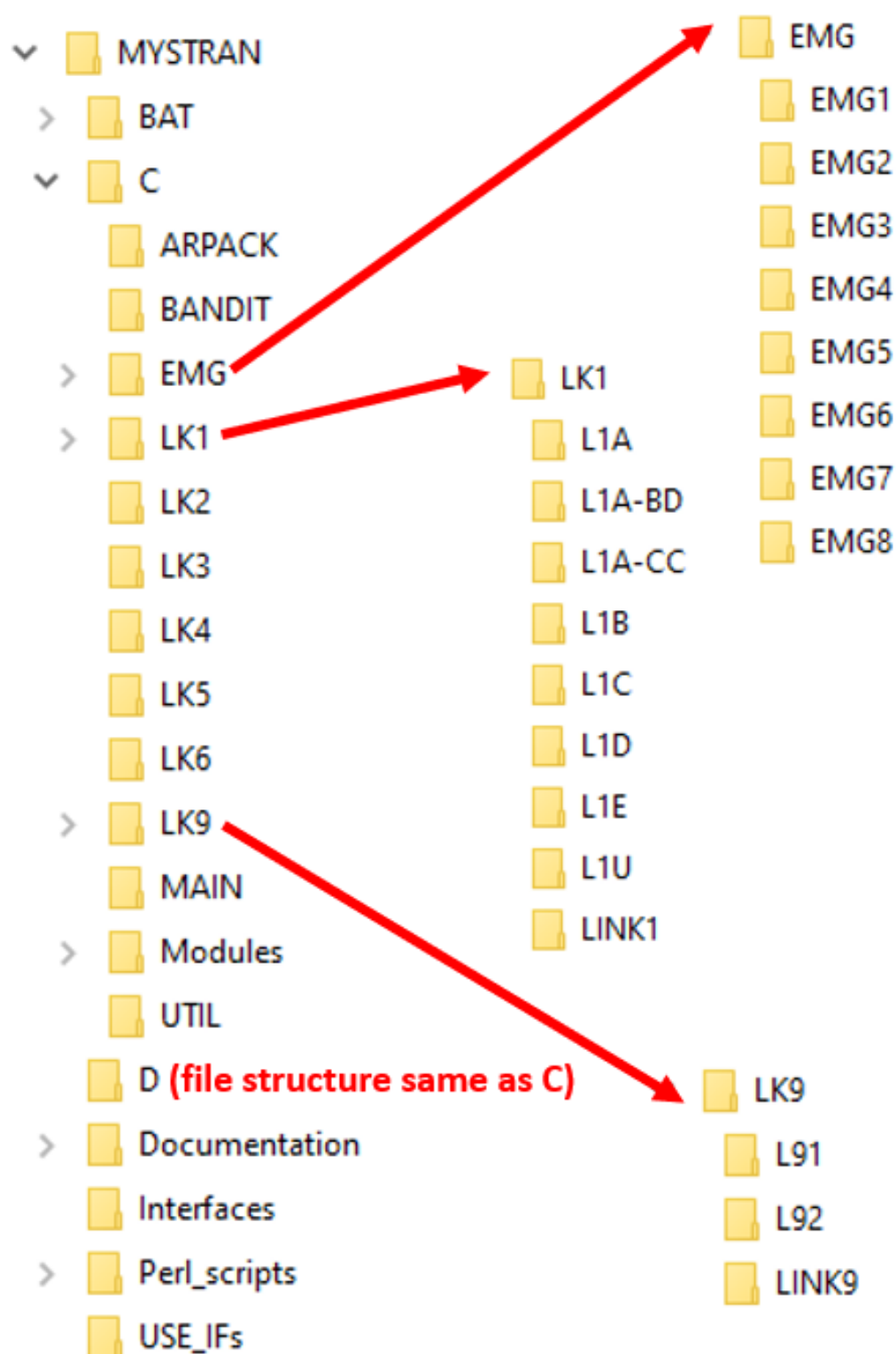
Figure 1: MYSTRAN File Structure on Drive D:
Used (by Author) for Batch Compilation and Linking

BEGIN THE COMPILE AND LINK PROCESS

The following assumes both debug and production code are being compiled and linked but this is not a requirement. Users can decide which, or both, to do. Several of these batch files have perl scripts (see folder perl scripts in the MYSTRAN-FEA-Program zip file)

1) Generate new bat files, in each sub-directory, that will compile the interface modules and the source code. Type the following commands at the cmd prompt

    cd0 (this always returns back to \MYSTRAN)

    bat_i_compile_file deb D

    bat_compile_file deb D

2) Compile all Interface modules

    cd0

    c-all_i D

3) Generate bat files that generate USE_IFs module files

    cd0

    use1 D

    use2 D

    use_compile_file deb D

4) Compile the USE_IFs modules

    cduif d (make sure to change to the USE-IFs sub-directory

    compile_use D

5) Compile the MYSTRAN source code (which uses the Interface and USE_IFs modules)

    cd0

    c-all D

6) Link MYSTRAN

    cdmy D

    lmy

7) Clean the deb code and write the cleaned files to MYSTRAN\C (if the debug code is being processed – otherwise if the production code is being processed this setp is not done). Batch file Clean_code.bat (using Clean_code.perl cleans the debug code of lines containing, somewhere within the line, either !? or !!! and copies the cleaned (production) code to MYSTRAN\C

    clean_code

8) Copy bat and link batch files to C (production code). Again, only done if debug code is being processed and has been written to MYSTRAN\C

    COPY-BAT-LIN

If both the debug and production code are being compiled and linked then do the above (except running clean_code) for the prod version in \MYSTRAN\C

NOTES ONLY TO Bill C WHEN SAVING A VERSION OR CREATING REPOSITORY

Then run the following to copy clean source code from folder MYSTRAN\C to

folder MYSTRAN-FEA-PROGRAM\,

> FEA.bat

Set up a directory in MYSTRAN_version_uploads for this new version and copy all

of the files from the previous released version into it. Then create a new folder in MYSTRAN Version Uploads and:

- del MYSTRAN.exe and copy new one from C:\Program Files(x86)\Mystran\bin to here
- del MYSTRAN_Win32_setup.exe and Setup-Manifest.txt in subdirectory Output
- update file Errors corrected.doc and replace pdf version in new version folder
- update any of the other files as needed
- finally, run Inno setup compiler using the MYSTRAN.iss the new version release folder
- update the html file Download_MYSTRAN.htm: chge version no, built and update dates
- upload the setup file MYSTRAN_Win32_setup.exe to web site using Ipswitch_WS_FTP