What's New in Mac F2C v1.3

What's New

Version 1.3 is a major update to version 1.2.   The most noteworthy new features and key differences are:

• Includes Kris L. Jorgensen's F2C for MPW package, which provides an MPW tool version of f2c and support for using the MPW versions of CodeWarrior's compilers to create FORTRAN-based MPW tools.

• Comes with an installer application that will build the required Mac F2C support libraries, install support files where your C/C++ compiler can find them, and build the appropriate test application.

• Supports the AppleEvents Object Model, so you can use the get/set verbs in an AppleScript to control essentially all of Mac F2C's options.

• Can automatically drive C/C++ project builds using Symantec, THINK, and/or CodeWarrior, even adding generated C/C++ files to your project as required.

• Revised support libraries feature improved run-time error trapping and provide built-in support for cooperative multi-tasking.   Various bugs in the libraries have been fixed.

• Support for the new CodeWarrior Integrated Development Enviornment (IDE, v1.3), including updated v1.3 project files.

• Support for the new Symantec C/C++ (v8) for PPC code generation, including versions of the Mac F2C support libraries, model projects, and installation testing material.

• Support for the version of THINK C/C++ (68K code generation) that is distributed with Symantec C/C++ v8.

• Mac F2C is now even friendlier in the cooperative tasking arena.   Numerous bugs have also been fixed.

USERS UPGRADING FROM PRIOR VERSIONS: you need to re-install all

What's Included

The Mac F2C 1.3 distribution set contains the following items:

ac F2C v1.3 Documentation -- This document.   It is a stand-alone documentation file describing everything you need to know.

ac F2C -- the FORTRAN-to-C translator application, version 1.3.   This is a fat binary containing both 68K and PowerPC native code.

ac F2C Installer -- an AppleScript application that will set-up Mac F2C for use with either Symantec, THINK, or CodeWarrior C/C++ compilers.

ac F2C Libraries -- a folder containing the libraries required to support programs translated by F2C.   The libF77 library provides   floating-point support; the libI77 library provides integer and I/O support.   Symantec, THINK, and CodeWarrior project and library files, and MPW makefiles are provided, along with all the source code.   These need to be built and installed in the right places.

est Project ƒ --   a folder containing a test FORTRAN program and the C output produced by Mac F2C.   It also contains   Symantec, THINK, and CodeWarrior projects and MPW makefiles to compile and run the test program.

odeWarrior Support -- a folder containing items specifically required to use Mac F2C with Metrowerk's CodeWarrior C/C++ compiler.   This folder contains the following items:

• For '(Project Stationary)' -- a folder containing CodeWarrior project stationary files for using C and C++ code generated by Mac F2C.   Two files are for producing 68K code, the other two for PPC code.

• For 'Mac F2C Support' -- a folder containing files which are required to compile and link code translated by Mac F2C.

• CW6 Project Files -- a folder containing CodeWarrior v1.2 (CW6) versions of all the CodeWarrior project files and stationary.

• CW Install.Lib -- an AppleScript library used by the installer.

ymantec/THINK Support -- a folder containing items specifically required to use Mac F2C with Symantec C/C++ (PPC) and THINK C/C++ (68K) compilers.   This folder contains the following items:

• SPM Support -- a folder containing support for the Symantec Project Manager (abbreviated SPM).   It contains the following: (1) For '(Project Models)', a folder containing model SPM C and C++ projects for using code generated by Mac F2C; and (2) SPM Install.Lib, an AppleScript library used by the installer; and (3) SPM 8.0.4 Project Files, a folder containing SPM 8.0.4 versions of all the CodeWarrior project files and project models (see the SPM documentation for details on how to use these).

• TPM Support -- a folder containing support for the THINK Project Manager (abbreviated TPM).   It contains the following: (1) For '(Project Models)', a folder containing model TPM C and C++ projects for using code generated by Mac F2C; (2) For 'Standard Libraries', a folder containing versions of THINK's ANSI, unix, CPlusLib, and IOStreams libraries suitable for use with Mac F2C; (3) TPM Install.Lib, an AppleScript library used by the installer.

2C for MPW -- a folder containing an MPW-tool version of   f2c and support for developing FORTRAN-based tools in conjunction with Metrowerk's CodeWarrior C/C++ tools for MPW.

ac F2C Extras -- a folder containing the following:

• AT&T Report 149.ps -- a postscript file containing the AT&T report that serves as a compiler manual for Mac F2C.

• F2C CW MPW/ToolServer Tools -- a folder containing tools that drive integrated CodeWarrior-Mac F2C operations from MPW or ToolServer.

• Mac F2C AppleEvents -- a folder containing detailed information on how to drive Mac F2C using AppleEvents.   This folder includes sample AppleScripts and F2cAETerms.h, a file (which you can include in your own code) that defines Mac F2C's AE terminology.

• Mac F2C and Alpha -- a folder containing Tool Command Language (Tcl) code intended for use the Pete Keleher's "Alpha" text editor.   When loaded into Alpha, this Tcl code will create a new Alpha menu that makes it very easy to manage FORTRAN-based projects using Mac F2C and CodeWarrior.

• Fixing Floating Point Output -- a folder containing source files and instructions that you can use to fix errors in your ANSI library's routines for converting floating point numbers to ASCII representations.