Development of Program Package for Thermophysical Properties of Fluids: PROPATH - Availabilities of Dynamic Link Library (DLL) in Windows Applications -

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The Program Package for Thermophysical Properties of Fluids, PROPATH, is a software library for calculating the thermophysical and transport properties of fluids written in FORTRAN 77 and partly in C language, with which one can get thermophysical and transport properties from these subroutines and/or functions from his/her FORTRAN or C main program units such as when referring to trigonometric functions. In addition to the static libraries for the FORTRAN and C languages, the latest version 12.1 includes single shot programs for each substance for MS-DOS, the Web interface through the Internet and the dynamic link libraries (DLL) for the Microsoft Windows operating system. In this presentation, the usages in the DLL for application software, such as Microsoft EXCEL and Visual Basic, and new features of next version are introduced. Users can use the PROPATH functions in spread sheets, Visual Basic programs and other application software on Microsoft Windows.

The current version 12.1 is ready to be transferred to any nonprofit organizations through Computer Center of Kyushu University and to profit organizations through a certain software house. The PDF user's manual is open for download to everyone from PROPATH Web site, and the Web version (W-PROPATH) can be used through the Internet at "http://wwww2.mech.nagasaki-u.ac.jp/PROPATH/".