James J. Hirsch & Associates
DOE-2.2 Installation and Execution Instructions

The install procedure creates/replaces the C:\DOE22 directory and sub-directories. If you want to place DOE-2 on another hard drive (or in another directory) you will need to follow the directions below.

PROGRAM INSTALLATION

Archives names:

D22sXXXrYYY.exe includes both the standard version XXX of DOE-2.2 and the refrigeration version YYY of DOE-2.2 for use with Windows 8/7/XP only (run as a windows application using WinDOE2 or as a "console" or "command line")

In Windows using winzip or the de-archiving built into the Windows Explorer open the archive extract its entire contents into the root directory of c: checking the boxes to "use folder names" and "overwrite" existing files so that the DOE22 directory structure is recreated.

CHANGING THE INSTALLATION DIRECTORY

1) Extract the DOE-2 archive to your new choice of drive and main directory
2) Change the shortcuts or .bat files that execute the program:
   Method 1 - using WinDOE2 and D2SimViewer shortcuts – on the shortcut property sheets change the target to use the new drive and base directory name, and then change the startup directory in a similar manner.
   Method 2 - using DOE22 and DOEBDL procedures - in doe22env.bat, doe22.bat, and doebdl.bat change the doedir environment variable to the new drive and base directory name.
   Method 3 - using RUN22 and RUNBDL procedures - in run22.bat, runbdl.bat, and the run22.bat files, change the doedir environment variable and also change the copy of the weather file to have the new drive and base directory name.
3) In the UTIL directory, edit all the .bat file to use the correct new drive and base directory name.

OTHER CONSIDERATIONS

- Look in the UTIL directory and you will find some useful utilities: cvtwth converts between several formats; wthfmt2 and fmtwth2 allows moving weather files between machine types - creates and packs ASCII files.

PROGRAM UPDATES AND BUGS

You should visit http://DOE2.com/download/doe-22 often to check for new versions. **If you find bugs or have problems with a run it is not easy for us to help unless you send us a zip archive with the input file and indicate what weather file you are using as well as provide a description of the problem.**

Method 1 (best method) – using the WinDOE2 and D2SimViewer programs

Simply start DOE-2.2 by double-clicking on the WINDOE2 shortcut in the DOE22 directory or on the WinDOE2 program in the DOE22\DLLxxx directory where xxx is the version you wish to run.

View DOE-2.2 simulation results (in .sim files) by double-clicking on the D2SimViewer shortcut in the DOE22 directory or on the D2SimViewer program in the DOE22\SimViewer directory.

Method 2 - using the DOE22 and DOEBDL procedure files

First you must copy the files in the DOE22/CommandLine directory into your DOE22 directory. Then to begin using the command line version you must create and enter a "command prompt" window by double-clicking the CommandLinePrompt shortcut you copied into the DOE22 directory.

To run BDL & simulation from any directory type (assumes the DOE22 directory is in your PATH, otherwise you must specify the full path to the DOE22 procedure file)

```
        DOE22 version input weather
or      DOE22 version input weather SAVE-FILES tfiles
or      DOE22 version input weather NOSAVE-FILES tfiles
or      DOE22 version input weather NO-LIBRARY
```

version	DOE-2.2 version you want to run as follows: exent - the standard JJH release for Win95/98/NT/2000/XP systems
input	the BDL input file WITHOUT its .inp extension, if this file is not in the current directory then the full path to the file must be specified (using the windows icon always requires use of the full pathname)
weather	packed weather file WITHOUT its .bin extension (use TRY\, WYEC\, or TMY\ prefix as needed for various file types); these files must be in c:\doe22\weather\ (or subdir's)
SAVE-FILES	save or use intermediate results & report files; prevents the deletion of the files following the program execution. (don't forget the SAVE-FILES command in BDL also) NO-LIBRARY can be specified here instead to prevent the use of the standard BDLLIB.
tfiles	base file name to be used for the intermediate results files. Some files are used when doing a SAVE-FILES run: LOADS results are on tfiles.ldo, HVAC on tfiles.syo, all use the design file (including ECONOMICS) on tfiles.dsn Default is the input file name. (don't forget the SAVE-FILES command in BDL also)

The run of BDL or the simulation creates the following files:

input.bdl	the BDL output	input.sim	the simulation output
input.log	the BDL and simulation log file		

SAVE-FILE causes the following to be left in the input file directory (* means can use tfiles as base name):

input.022 .080	BDL macro output files	input.ldo*	LOADS results for HVAC
for???	any funtion files ??? is unit #	input.syo*	HVAC results for ECONOMICS
input.lib	An alternative user library		
input.ctr .std	BDL/Simulation control/data files	input.dsn*	LOADS, SYSTEMS, PLANT design data
input.?in	the hourly report OPTION=BINARY-FILE for LOADS(l), SYSTEMS(s), and PLANT (p)		
input.?rp	the summary and verification report files for LOADS(l), SYSTEMS(s), and PLANT (p)		

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Method 3   using the RUN22 and RUNBDL procedure files

> **NOTE - IF YOU HAVE USED METHOD 2 YOU MUST EXIT THE COMMAND PROMPT WINDOW AND CREATE A NEW COMMAND PROMPT WINDOW (not using the supplied shortcut) BEFORE USING THIS METHOD**

Add the DOE22 directory to your PATH environment variable before proceeding.
To run BDL & simulation from any directory type

```
c:\doe22\run22 version input weather
```

All parameters are the same as in method 1, except that that the input file MUST be located in the current directory (the working/ startup directory must be corrected in the CommandLinePrompt setup - use the properties sheet by right licking on the CommandLinePrompt shortcut). The execution procedure file creates a subdirectory to run the program within. The program output and run log are placed back in the starting directory with a .out and .log extensions.

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