

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 disk partition (or in another directory) you will need to follow the directions below.

PROGRAM INSTALLATION

Archives names:

D22NTXXX.exe is the version of DOE-2.2-XXX for use with Windows 95/98/NT/2000/XP only (run as a windows application using WinDOE2 or as a “console” application looking similar to a DOS application)

In Windows using winzip:

Open the archive of choice listed above and 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.

In DOS or a DOS box under windows 95, NT, 2000 or XP with pkzip/pkunzip installed:

Move to the root of your c: hard drive (c: <enter> followed by cd \ <enter>)

Extract the proper DOE-2.2 archive by executing it as follows

```
Pkunzip -d -o PATH\archive.zip
```

where:

PATH is the path to where you placed a downloaded archive on your hard drive or

CDROM:\DOE22\ARCHIVES is installing from a DOE2/eQUEST/PowerDOE CD

(and CDROM is the drive letter of your CD ROM with PowerDOE CD inserted)

and

archive is the archive name

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, 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 weather\utilXX (where XX is 16 or 32) directory, edit all the .bat file to use the correct new drive and base directory name.

OTHER CONSIDERATIONS

- Look in the WEATHER\UTILXX 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. XX is either 16 (Win3.1 and DOS) or 32 (Win 95/98/NT/2000/XP.)

PROGRAM UPDATES AND BUGS

You should visit <http://DOE2.com/download/doe-22> often to check for new versions. If you require CD to be shipped there is a service charge of \$55 for each CD. **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.**

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PROGRAM EXECUTION

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\DLL32 directory.

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; you can register this as with windows by double clicking on the RegisterD2SimViewer procedure file in the SimViewer directory.

Method 2 - using the DOE22 and DOEBDL procedure files

First you must enter a DOS box by double-clicking the W95-DOS (Win 95/98) or Wnt-dos (Win NT/2000/XP) shortcut in 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 DOS BOX AND CREATE A NEW DOS BOX (not using the supplied shortcut) BEFORE USING THIS METHOD

To run BDL & simulation from any directory type (assumes the DOE22 directory is in your PATH)

```
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 DOS box setup - use the properties sheet by right clicking on the Wnt-dos or w95-XXX shortcuts). 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.