

The microcomputer version of the DOE-2.1C is the exact translation of the mainframe version. It was developed and is sold solely through Acrosoft International of Denver, Colorado. The price of the whole package is \$495. No royalties were paid to LBL since the mainframe version of DOE-2 is in the public domain. It took Acrosoft 6 months to develop the microcomputer version and the first sales of the program were in February 1987. So far, 180 copies of the program have been sold to consulting engineers, utilities, universities, and private contractors who use it for numerous purposes ranging from design of new buildings to calculating energy consumption of buildings and research (Tsai, 1988). Ten to 15% of the sales of the microcomputer version have been overseas. What makes the program especially attractive to foreign buyers is its ability to perform calculations in the metric system. The program is not copyrighted or protected. Hence, the actual number of users may be much greater than the number of copies sold. Dr. Tsai of Acrosoft International identified two areas where efforts need to be concentrated: (1) improving the documentation, and (2) making the input interactive. The nonproprietary nature of the software and large development costs are the main arguments in favor of government support.

ADM Associates of California market a microcomputer software program called ADM-2. ADM-2 is based on the same basic algorithms as the DOE-2, but even ADM acknowledges that it is not the same program and does not have all the capabilities of DOE-2. For example, the application front end of ADM-2 differs from DOE-2. The complete package of ADM-2 sells for \$595 and 100 copies of the program have been sold since sales first began in early 1985. ADM-2 is copyrighted and copy protected. All the research was conducted in-house after source code was obtained from LBL. The uses and users of ADM-2 are similar to those of DOE-2. ADM-2 is developing a PC-version of DOE-2 that is likely to come