EXHIBIT 31

COMPUTER DICTIONARY

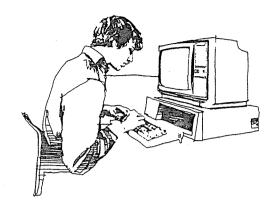
THIRD EDITION

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module (1) One logical part of a program. A major program may be broken down into a number of logically self-contained modules. These modules may be written (and possibly tested separately) by a number of programmers. The modules can then be put together to form the complete program. This is called modular programming. (2) Interchangeable plug-in item containing components. (3) A set of logically related statements that perform a specific function.

module diagram Part of the notation of object-oriented design, used to show the allocation of classes and objects to modules in the physical design of a system.

modulo Mathematical function that yields the remainder of division. For example, 25 modulo 4 equals 1. This is derived by dividing 25 by 4, which leaves a remainder of 1. This is the modulo value of the operation.

moire pattern (1) An interference pattern created when two regular dot patterns are asymmetrically superimposed. (2) An undesirable grid pattern that may occur when a bit-mapped graphic with gray fill patterns is reduced or enlarged. (3) In scanning, an objectionable pattern caused by the interference of halftone screens. Often produced when you rescan a halftone and a second screen is applied on top of the first.

monadic Pertaining to an operation that uses only one operand. Contrast with niladic.

monadic Boolean operator Boolean operator with only one operand, such as the NOT operator.

monitor (1) A device on which images generated by the computer's video adapter are displayed. (2) Control program or supervisor.

monochrome A term applied to a monitor that displays a single color (white, amber or green) image on a contrasting (black) background, producing a sharp, clear display that is easy to read.

monochrome adapter A video adapter capable of producing one foreground color.

monochrome display A video display capable of displaying only one color.

monolithic (1) Pertaining to a single silicon substrate upon which an integrated circuit is constructed. (2) Complete and all in one piece. For example, a linkage editor combines several fragmentary program modules into a single monolithic program.

monolithic integrated circuit Circuit formed in a single piece of the substrate material, as opposed to a hybrid circuit, in which individual (physically separate) circuit components are electrically interconnected to form the final circuit.