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Computerized Integrated Circuit Evaluator

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FINAL REPORT

C.I.C.E.

Computerized Integrated Circuit Evaluator

Submitted to

Professors

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and

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By

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December 11, 1991

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ABSTRACT

C.I.C.E. Computerized Integrated Circuit Evaluator

Integrated circuits are very sensitive to static electricity. Visual observation can not detect damage to one of these computer "chips". A chip must be electronically tested to check its condition. Electronic testing is a boring and time consuming process for a human technician. CICE is a computer based tester, it allows the user to quickly and accurately test the condition of a chip. A program controls CICE's hardware by utilizing the computer. The program is a shell that contains four functions. The functions are used to write files that CICE can use to automatically test ICs. Each type of IC must have definition and data files written. The hardware consists of an I/O card and a test fixture. The I/O card interfaces the test fixture to the computer. The test fixture holds the chip under test.

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