



[54] METHOD FOR ANALYZING CALLS OF APPLICATION PROGRAM BY INSERTING MONITORING ROUTINES INTO THE EXECUTABLE VERSION AND REDIRECTING CALLS TO THE MONITORING ROUTINES

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[57] ABSTRACT

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A method for verifying the conformance of an application program to a set of system rules characterized by the development of a conformance database, the performance of a static analysis of the application program to determine whether the application program is in static conformance with the conformance database and the performance of a dynamic analysis of the application program to determine whether the application program is in dynamic conformance with the conformance database. The static analysis produces a graph of the basic blocks of the application program and analyzes the graph for conformance to system rules, dead code and coverage metrics. The dynamic analysis adds a small amount of monitoring code into an executable application program which monitors the application program as it is exercised in a test harness. The monitoring code produces a log database which can be analyzed for run-time non-conformities of the application program.

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[52] U.S. Cl. 395/500; 395/575;
395/700; 371/19; 364/274.5; 364/280.4;
364/280.5; 364/264.1; 364/DIG. 1

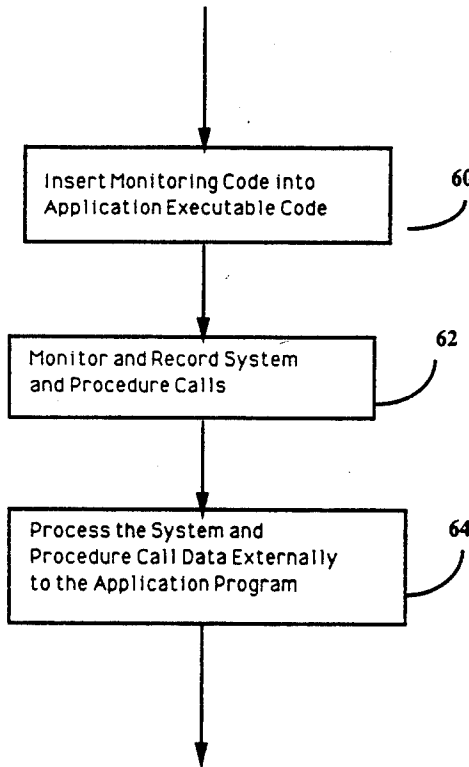
[58] Field of Search 395/500, 575, 600, 700,
395/800; 371/19

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11 Claims, 15 Drawing Sheets



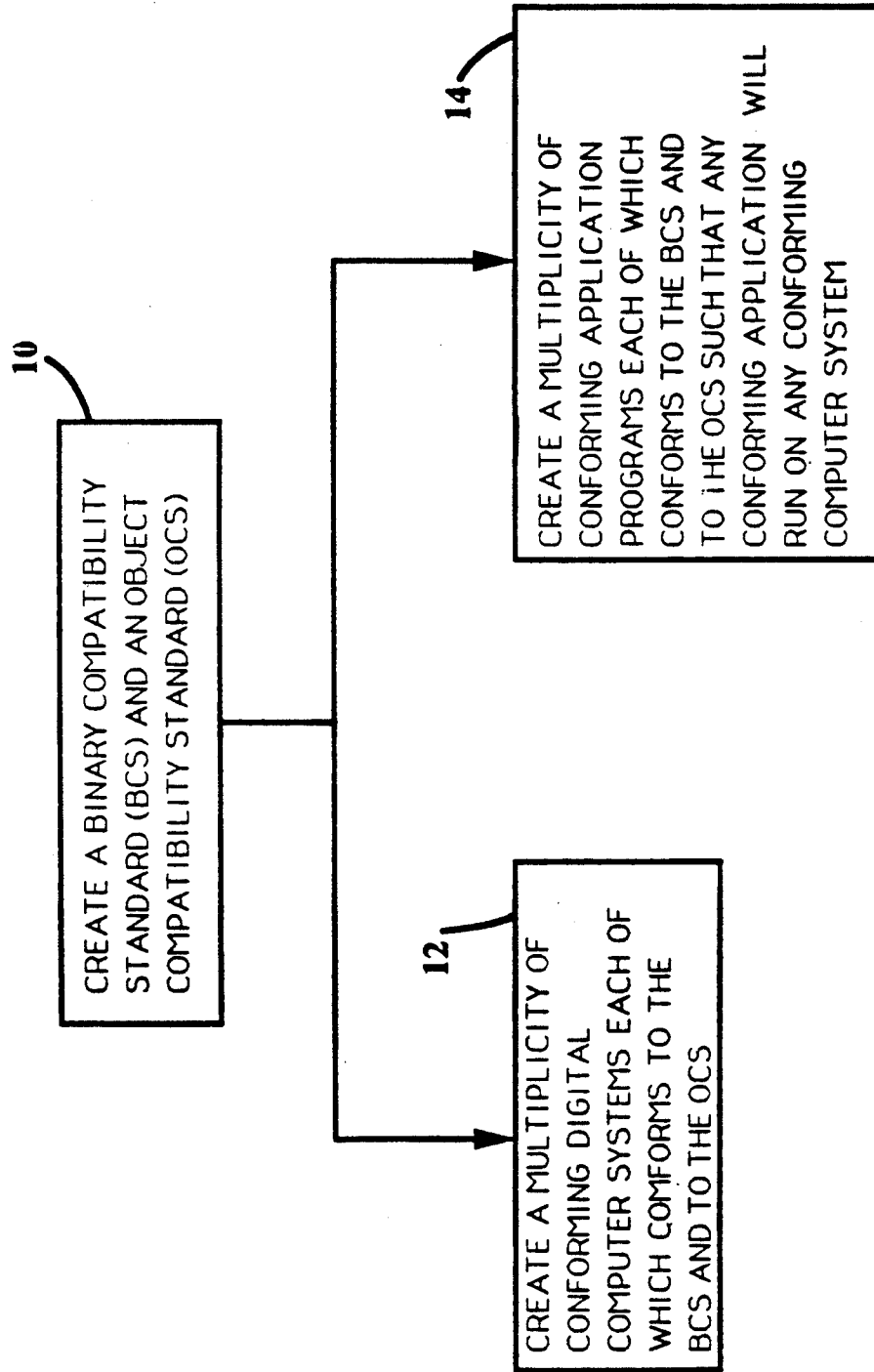


Fig. 1

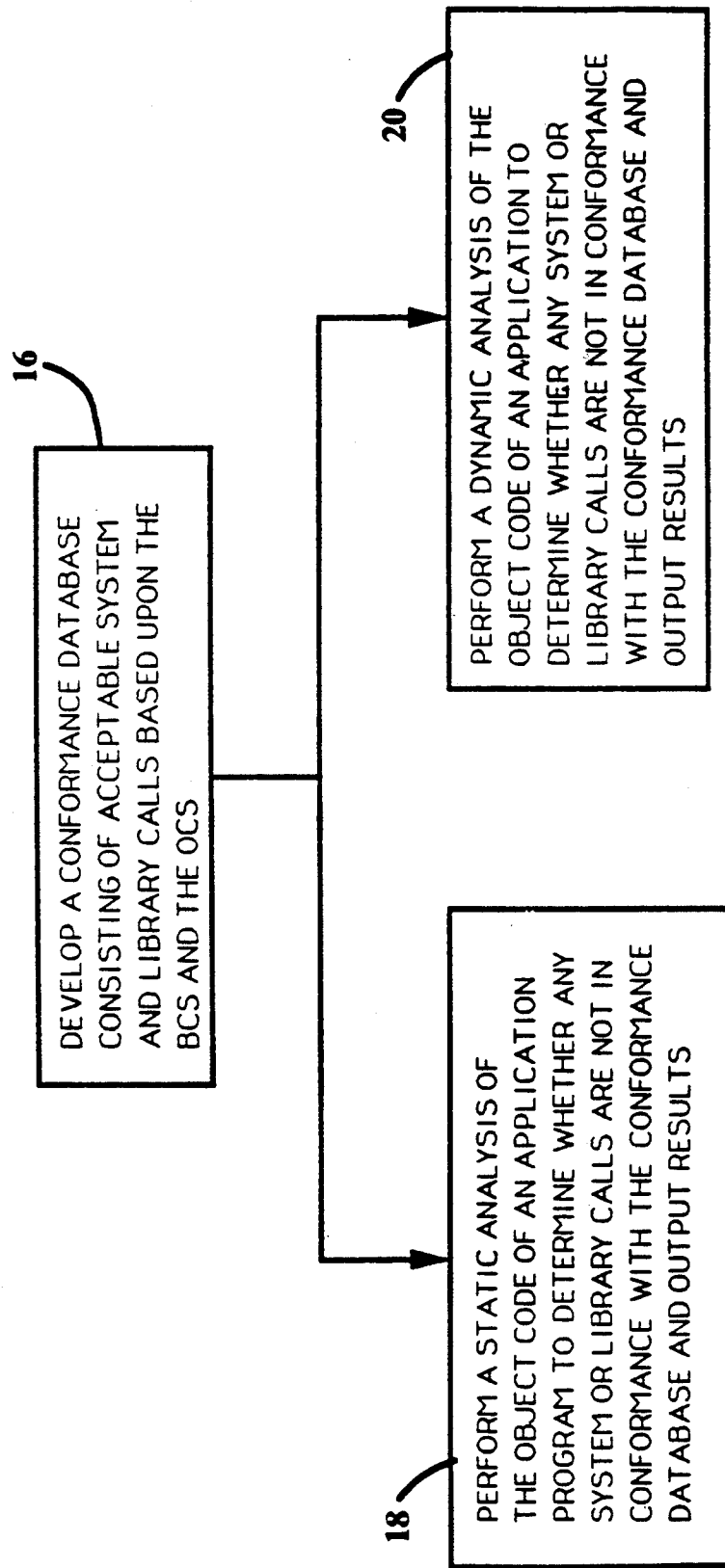


Fig. 2

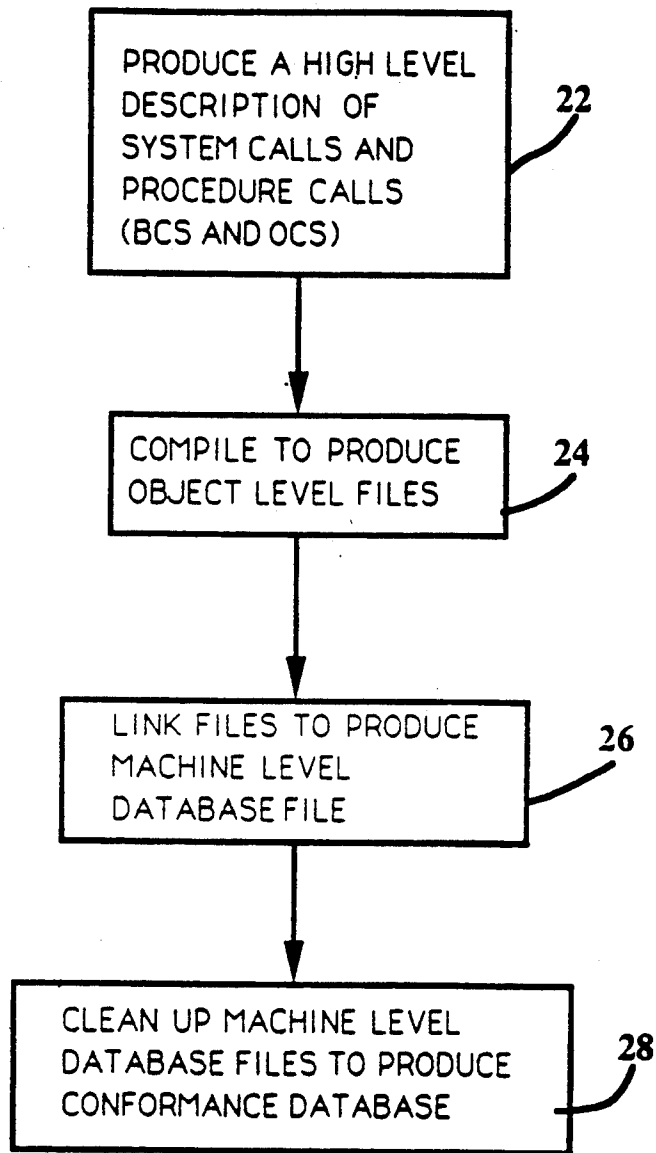


Fig. 3

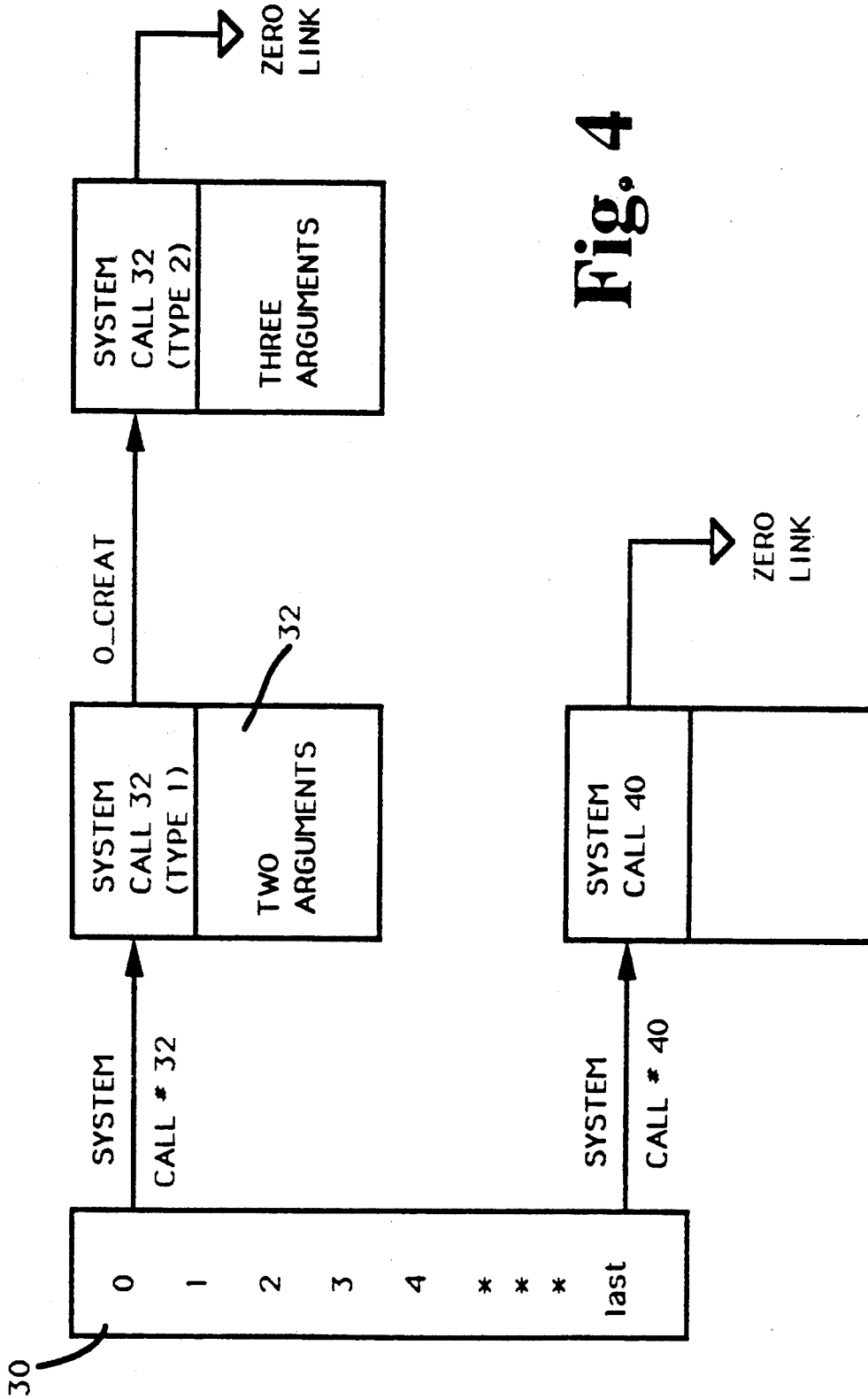


Fig. 4

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