1. Basic Techniques

In REME-D: a Reflective epidemic Message-Oriented Debugger for Ambient Oriented Applications paper the author breaks down debuggers in two main families (Section 2 - Related Work): log-based debuggers (also known as post-mortem debuggers) and breakpoint-based debuggers (also known as online debuggers). Log-based debuggers insert log statements in the code of the program to be able to generate a trace log during its execution. Breakpoint-based debuggers, on the other hand, execute the program in the debug mode that allows programs to pause/resume the program execution at certain points, inspect program state, and perform step-by-step execution.