STOOP: The Sable Toolkit for Object-Oriented Profiling

Our approach is unlike commercial profilers such as the SmartFile definition language. The specification language was naturally appealing. We introduced by Haines, Mehrotra & Van Rosendale developed new strategies to make better use of a wide variety of object addresses in memory can be produced by an instrumented garbage collector, and arbitrary application-specific data might come from custom definitions. The program being profiled indicates various behaviors that might suggest new optimization or execution strategies for Java. For example, by applying the toolkit to study program invariants, we may be able to identify new opportunities for performance improvement. We show some example views on the right.

The visualizer reads the stream of profile data from the execution of a program. It converts profile data into a format that can be visualized by the Event Pipe. The Event Pipe is a data flow component that forwards profile data to the visualization platform. It is connected to the visualizer and other profiling agents through the Event Pipe.

Other profiling agents may include:

- A Collector that reads profile data from a file.
- A Method Exit that records method exits.
- A Class Load that records class loads.
- A Step Record that encapsulates profile events.

The visualizer provides a clear and intuitive interface for exploring the profile data. It allows users to select different views, each of which presents a different perspective on the data. A view is a graphical representation of the profile data, and a descriptor is a class that defines the behavior of a view. A descriptor is responsible for rendering the data and interacting with the user. A view receives messages from controllers or other views and can send messages to the descriptors.

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