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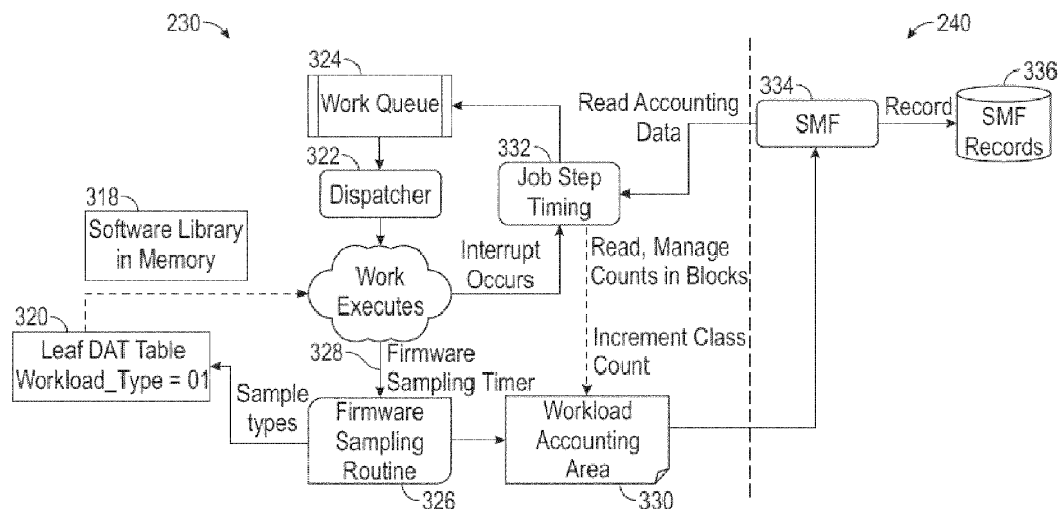


FIG. 4B

(57) **Abstract:** Execution of an instruction includes obtaining software objects and loading instructions into a memory and storing the workload type attribute for each software object. The execution includes operations that during runtime, deploy a first hardware instruction to trigger a firmware process to sample, at each interval of timed pre-configured intervals, instructions from the sets of instructions of the one or more software objects being executed during the interval by one or more processors of the computing system. The operations include deploying a second hardware instruction to obtain and store samples from the firmware process in the memory. The operations include generating, based on analyzing the stored samples, execution parameters associated with each sample. The operations include determining accesses to the software libraries in the computing system, by workload type attribute. The operations automatically implement an action related to at least one software object in the computing system.

[Continued on next page]

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