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PREDICTIVE CACHE LOADING BY PROGRAM ADDRESS DISCONTINUITY HISTORY

ABSTRACT

A method and apparatus for loading cache memory in an information handling system comprising a processor (10) for processing a plurality of tasks in a program of instructions controlled by a multitasking operating system. A task queue (42) stores a task list arranged in a chronological order from a current task (12) to a next task (14) developed by observing the order in which tasks were previously processed and how long they were run. The task list is then used to predict when, before the processor completes processing the current task, the next task should be loaded into the cache memory (13) to prevent stalls caused by task switching.

Figure 3