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Algorithm 1 Pseudo code of the worker thread.
  loop
     if work queue empty then
        Wait for new work item or termination.
     else
        Pop work item from the queue's front.
        Load data block if needed.
        Integrate as long as all required blocks are in cache.
        if integral curve finished then
          Delete work item.
       else
          Create new work item starting at last particle position.
          Push new work item to the back of the work queue.
        end if
     end if
  end loop
Algorithm 2 Pseudo code of the supervisor thread.
  loop
     if received work request then
        Hand over half of the local work queue, starting at the back.
     end if
     if work queue empty then
        Perform termination detection.
        Pick random victim and request work from it.
     end if
  end loop
```