

Slide 1

Heat-Diffusion Problem, Revisited We looked at OpenMP and MPI versions of this problem. How about OpenCL? This problem might initially seem like a reasonable fit for OpenCL, because we have lot of mostly-independent tasks that can execute concurrently. But the need for UEs to communicate (to share boundary information) makes this problem not such a good fit: The obvious way is just to copy data back to the host after every iteration. Unfortunately this seems very slow! (Look at code.)

Slide 2



