```
//Run by each thread block of BE kernel
//Global array num_blks[num_SMs]
BE_Kernel(…) {
    sm_id = get_sm_id();
    blk_id = atomic_get_blk_id();
    while(task_queue is non-empty) {
        if( blk_id > num_blks[sm_id]) quit;
        else {
            task = pull_task();
            execute(task);
} } }
```