GPU Device Code for 2-level Parallelism

```
Gather:
Gather map:
   parfor each in edge array e
    update to edge_update_array using gatherMap(vertex_array[e.src])
deviceSynchronizeBarrier()
Gather reduce:
     parfor each vertex v in the interval:
     update vertex update array list using
                 gatherReduce(edge update array, UserGatherReduce)
Apply:
       parfor each vertex v in the interval:
       update vertex state of v using apply(vertex_update_array[v.val])
       if(v.val updated)
            v.active = true
Scatter:
       parfor each out edge array e in the shard:
       update edge state of e using scatter(e)
FrontierActivate:
       parfor each out edge array e in the shard:
       if(e.src.active = true)
             activity list = activity list U \{e.dst\}
```