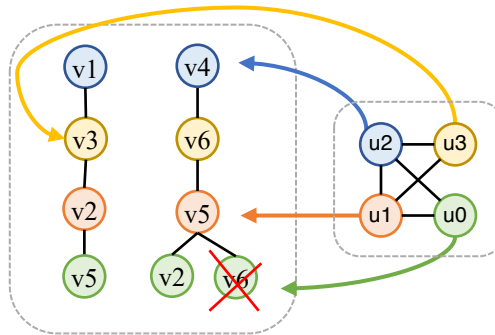


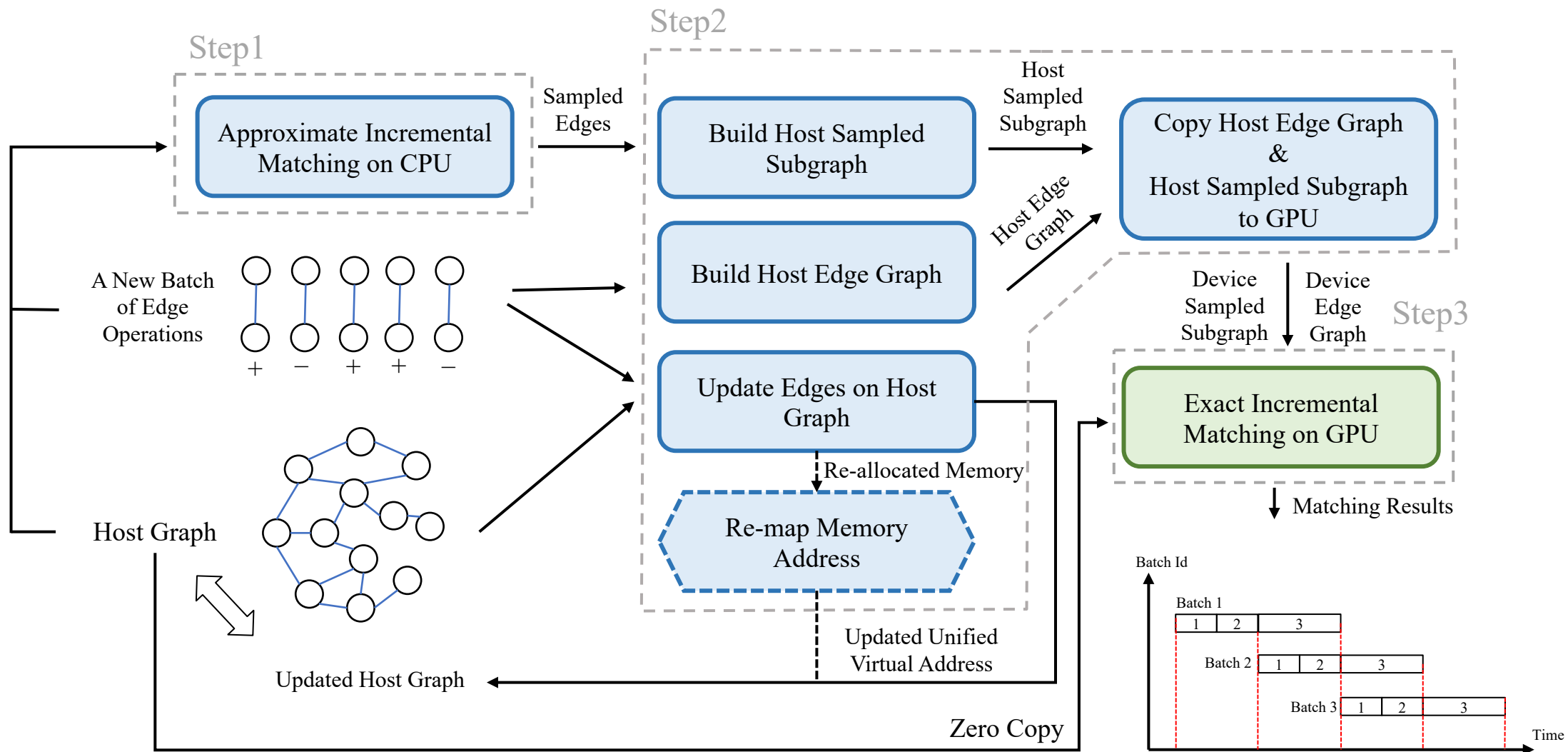
$\text{for}(v_0, v_1 \in \Delta E) \left\{ \right.$
 $\text{for}(v_2 \in N(v_0) \cap N'(v_1))$
 $\text{for}(v_3 \in N(v_0) \cap N(v_2))$

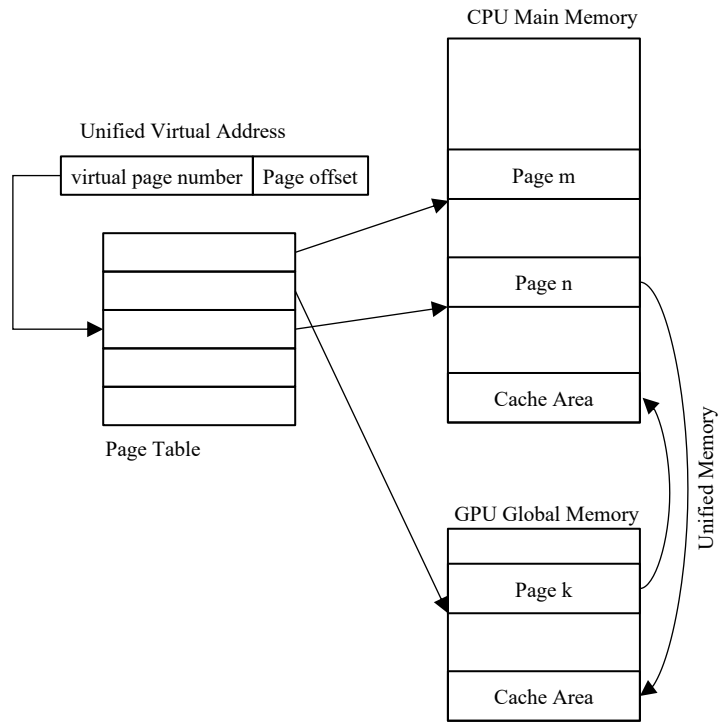
Set Intersections

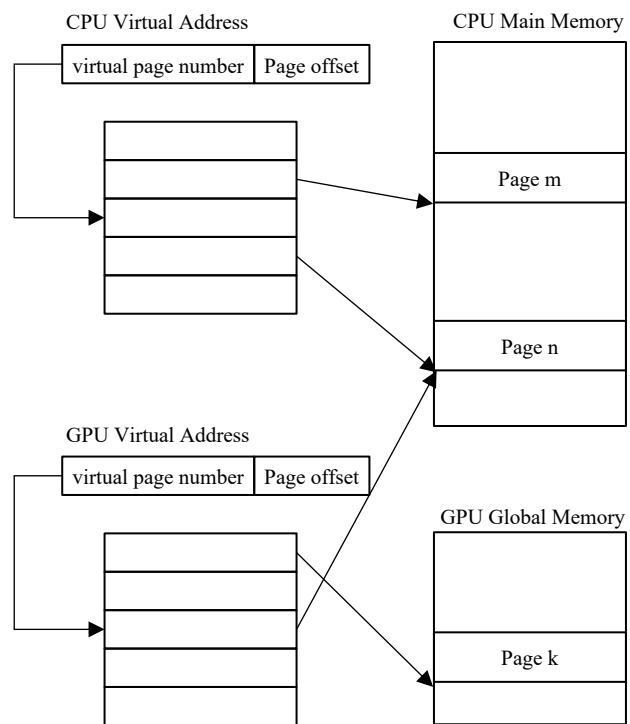


Search Tree

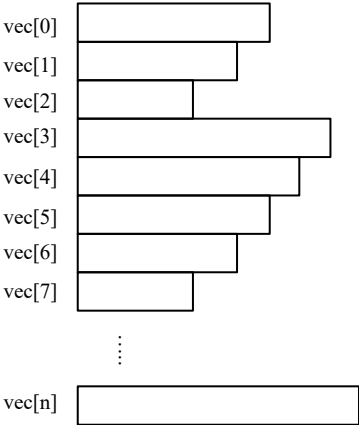
Query Graph





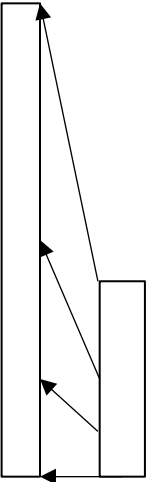


Adjacency List

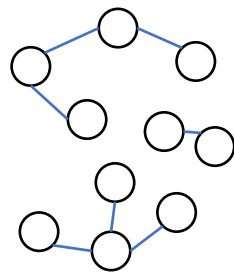
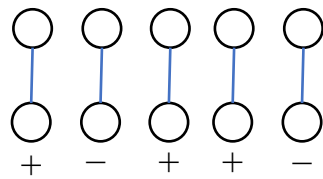


Host Graph

Compressed Sparse Row

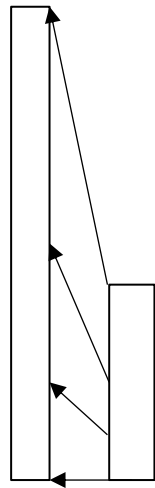


Host Sampled Subgraph

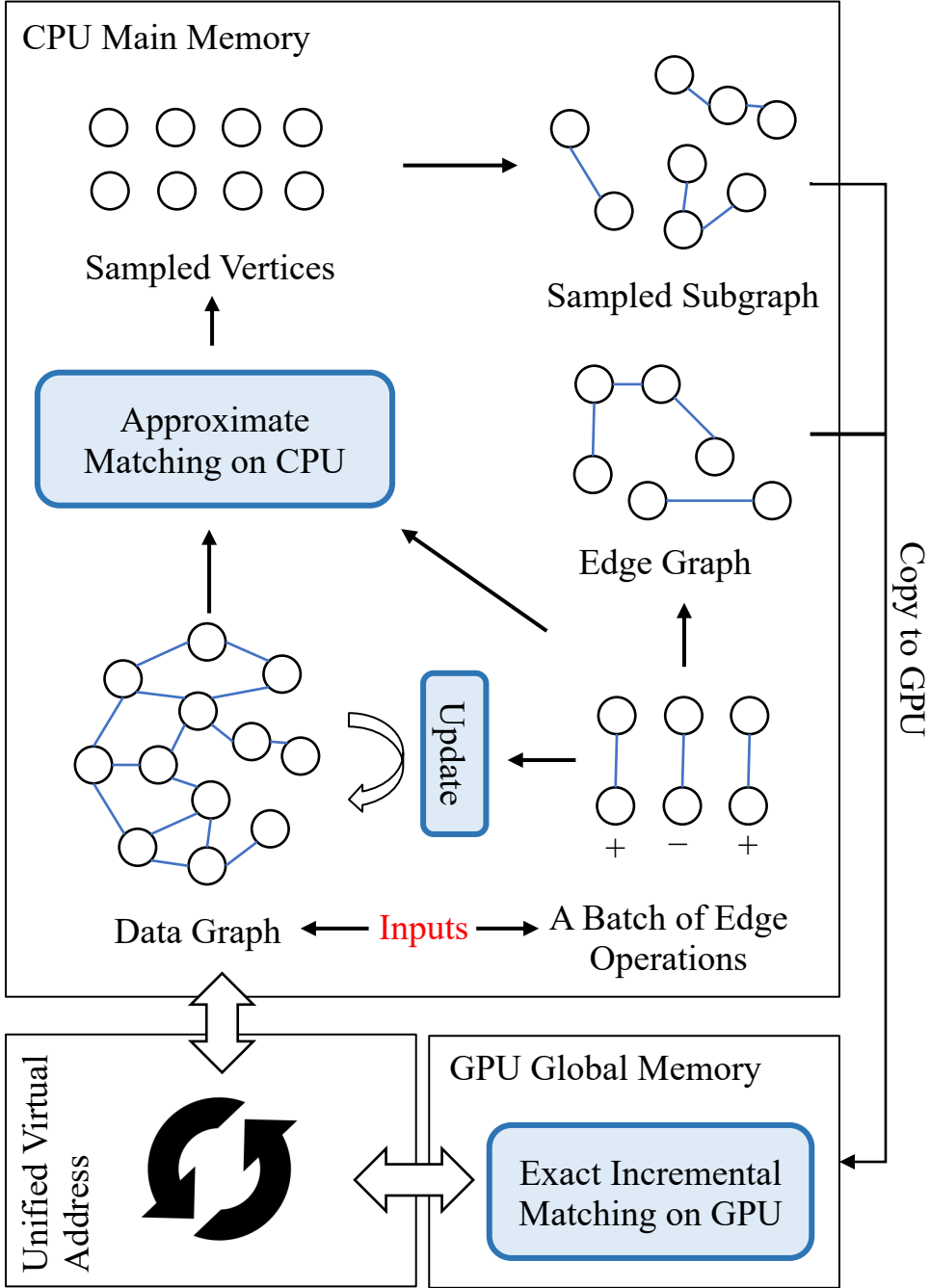


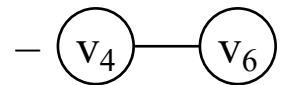
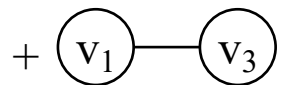
Host Sampled Subgraph

Compressed Sparse Row

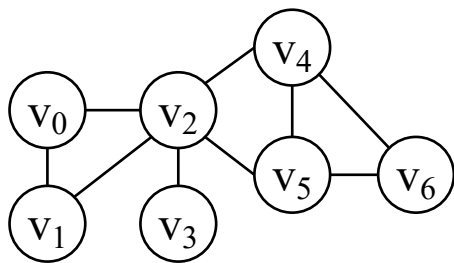


Host Edge Graph

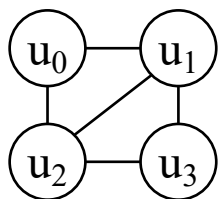




**A Batch of
Edge Update**



Data Graph G



Query Graph Q

Copy to GPU



Sampled Vertices



Sampled matching
on CPU

