

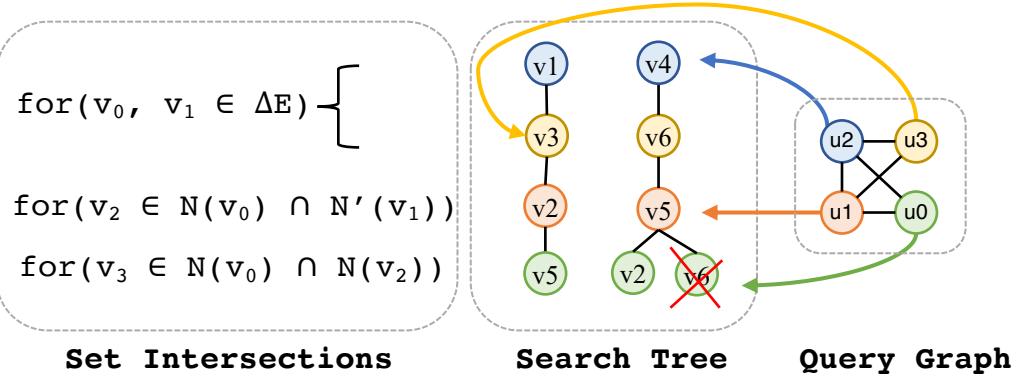
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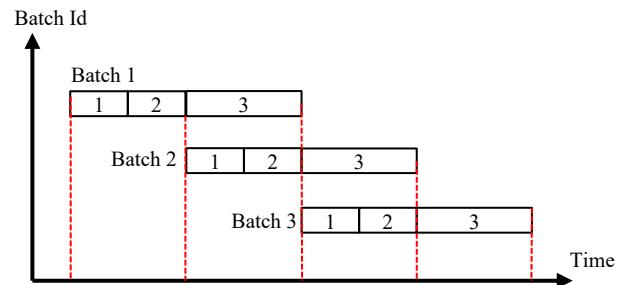
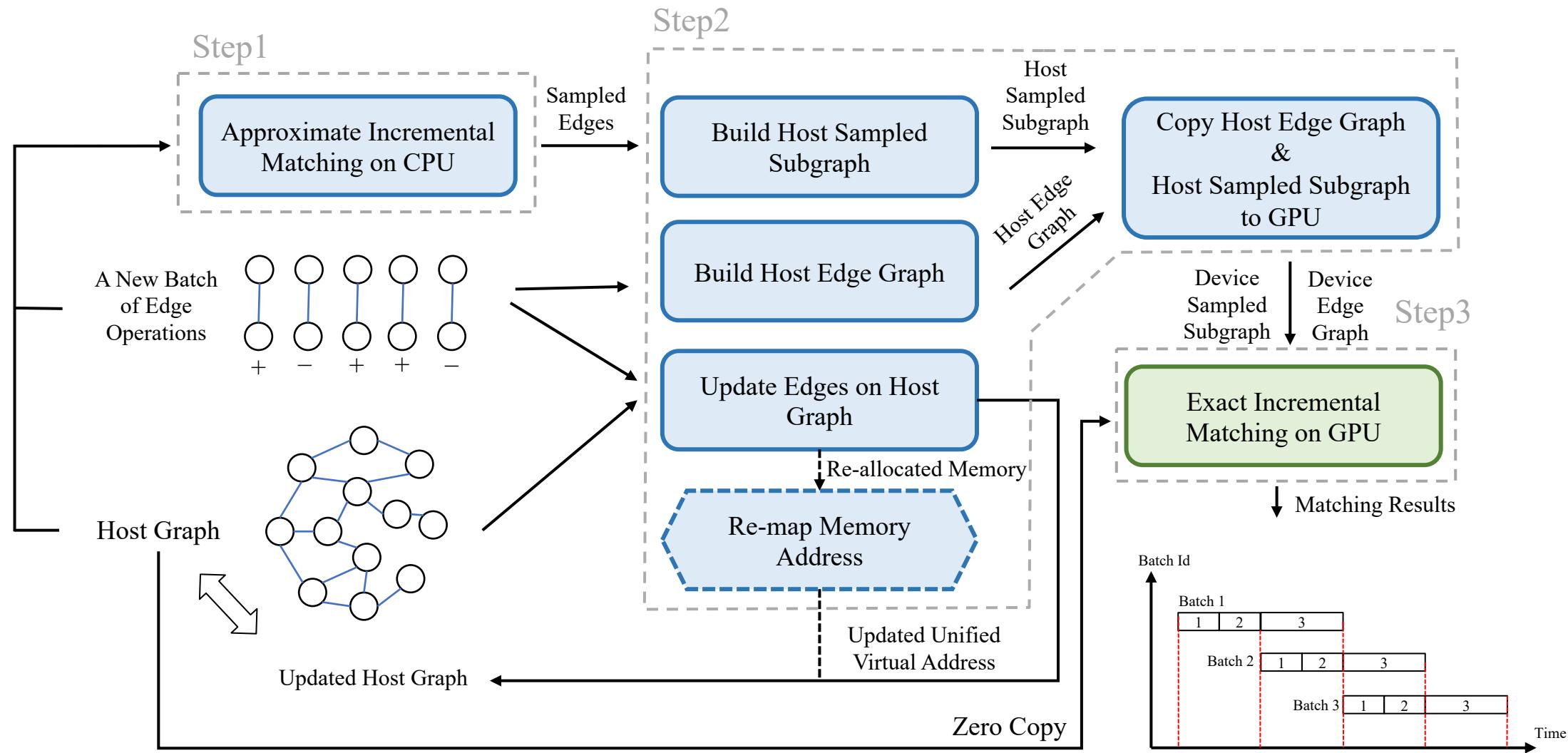
for(v0, v1 ∈ ΔE) {  

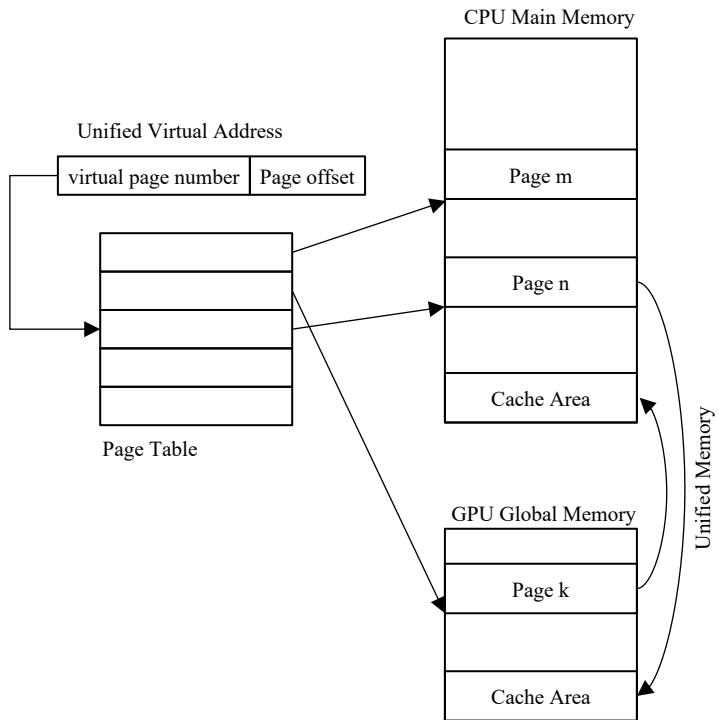
    for(v2 ∈ N(v0) ∩ N'(v1))  

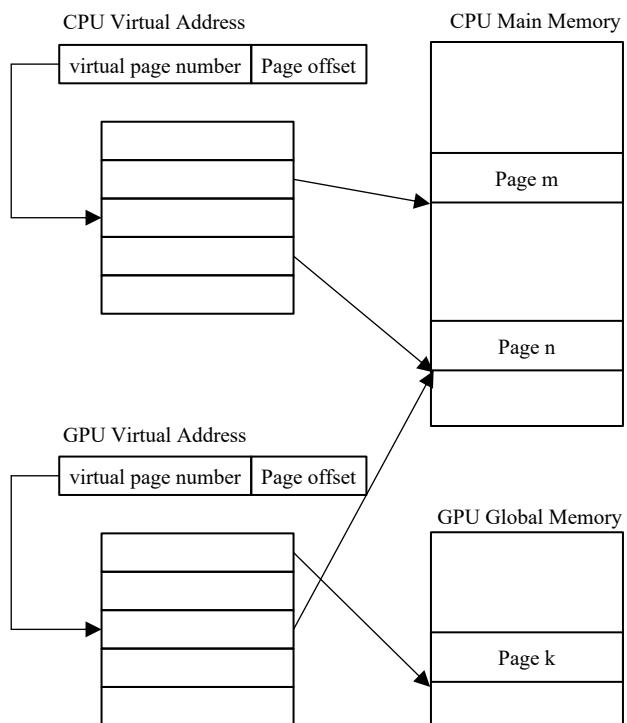
        for(v3 ∈ N(v0) ∩ N(v2))
}

```

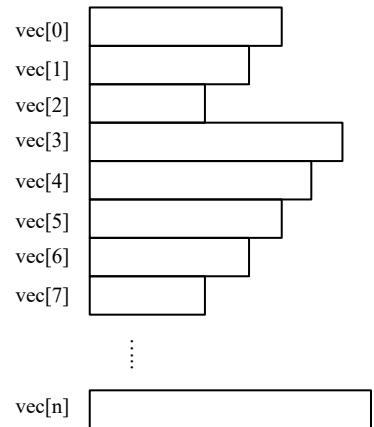




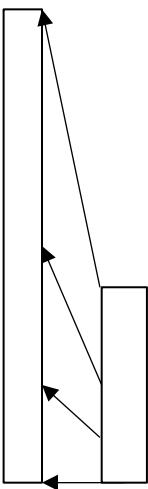




Adjacency List

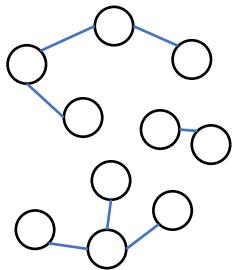
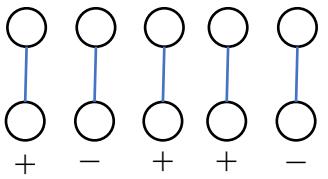


Compressed Sparse Row



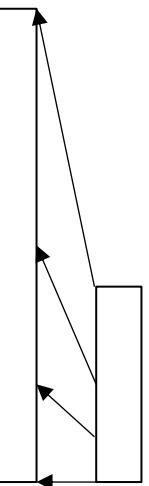
Host Graph

Host Sampled Subgraph

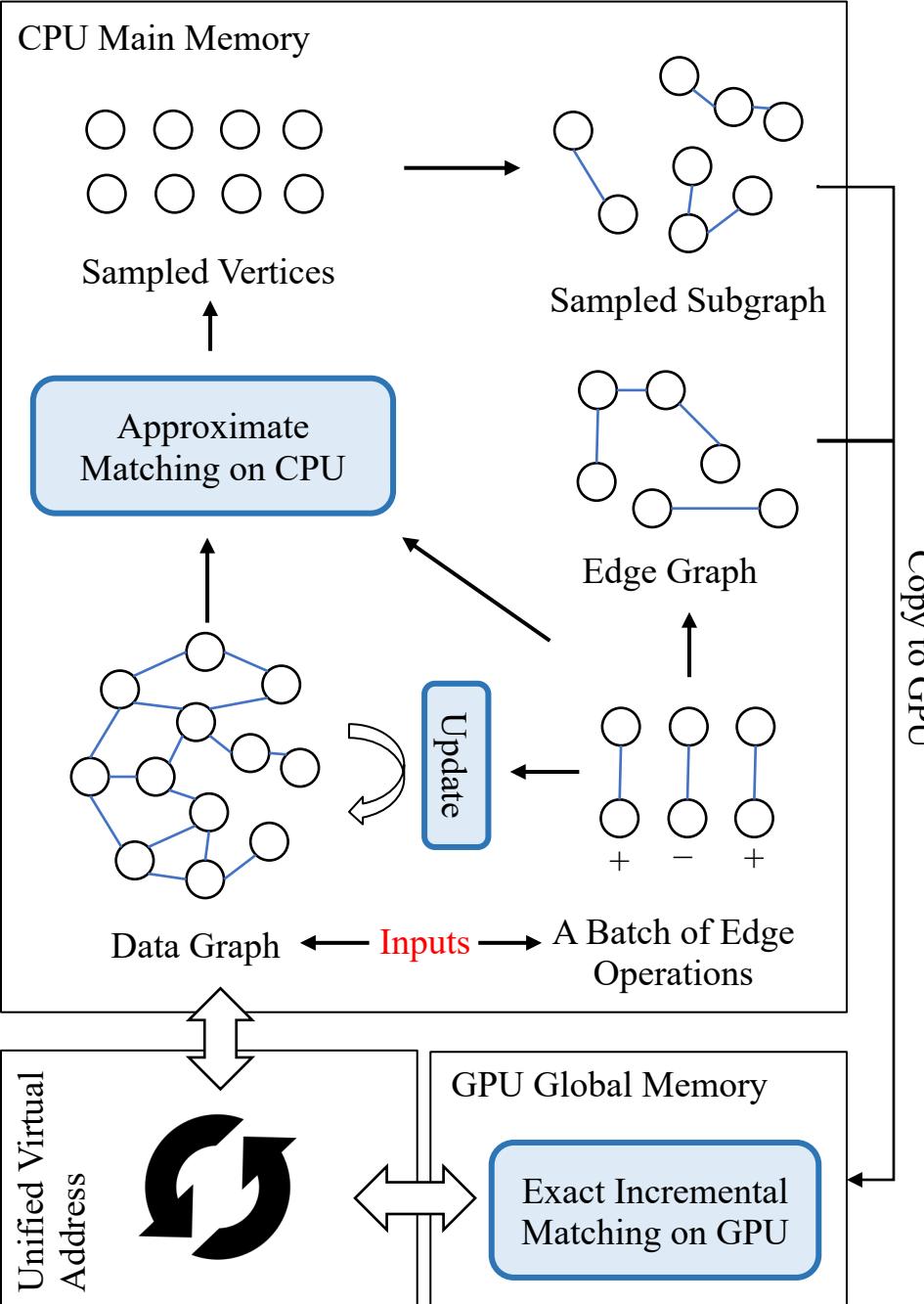


Host Sampled Subgraph

Compressed Sparse Row

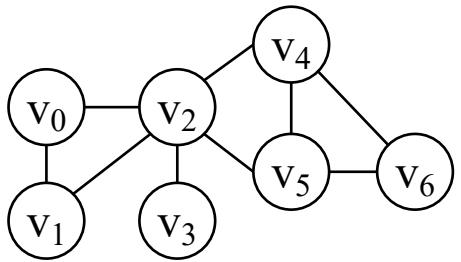


Host Edge Graph

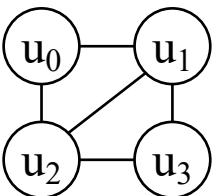


$$+ \begin{array}{c} \textcircled{v}_1 \\ \textcircled{v}_3 \end{array}$$
$$- \begin{array}{c} \textcircled{v}_4 \\ \textcircled{v}_6 \end{array}$$

A Batch of Edge Update



Data Graph G



Query Graph Q

Copy to GPU



Sampled Vertices

Sampled matching
on CPU



