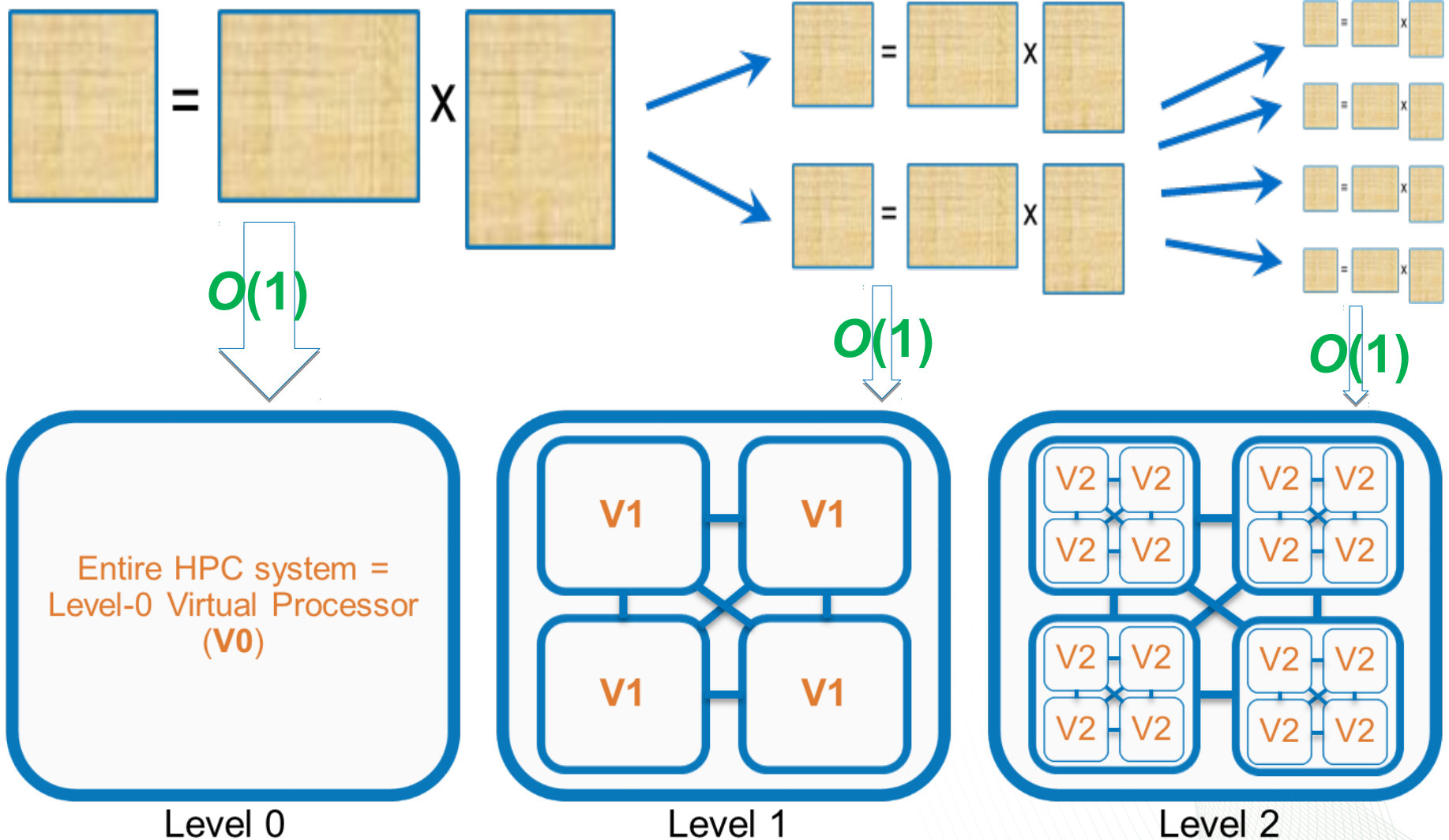
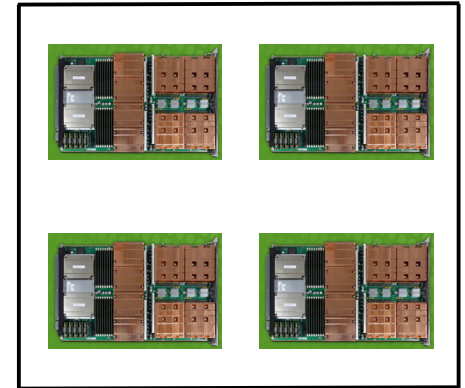
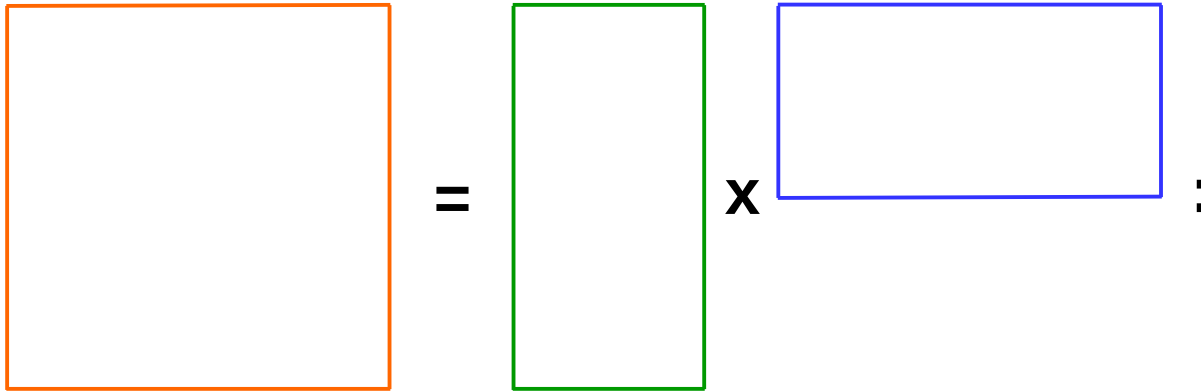


# ExaTENSOR: Hierarchical Processor of Hierarchical Tensor Algebra

Data storage granularity is decoupled from the task granularity



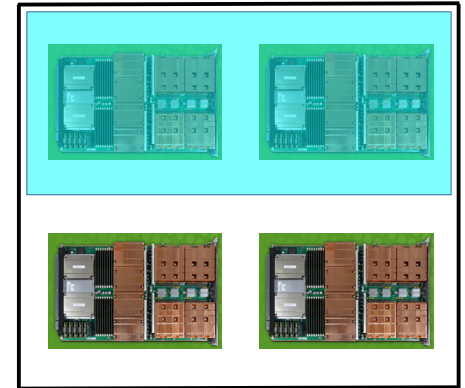
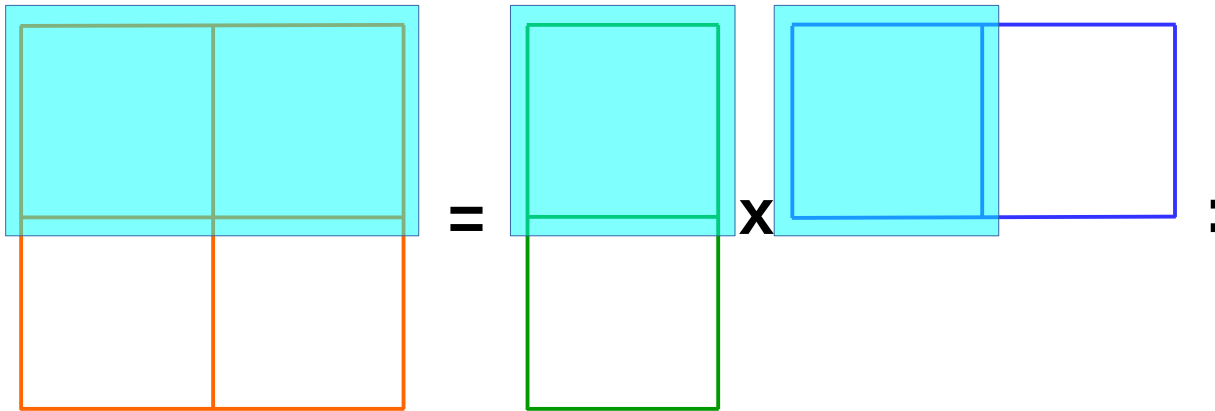
# ExaTENSOR: Dense matrix multiplication case



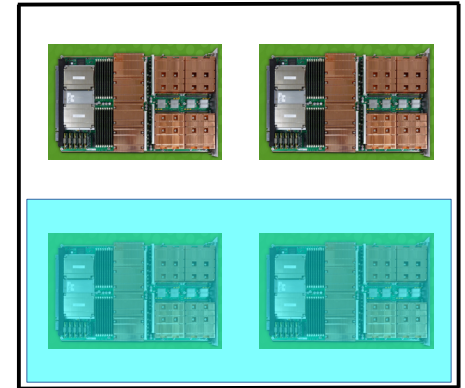
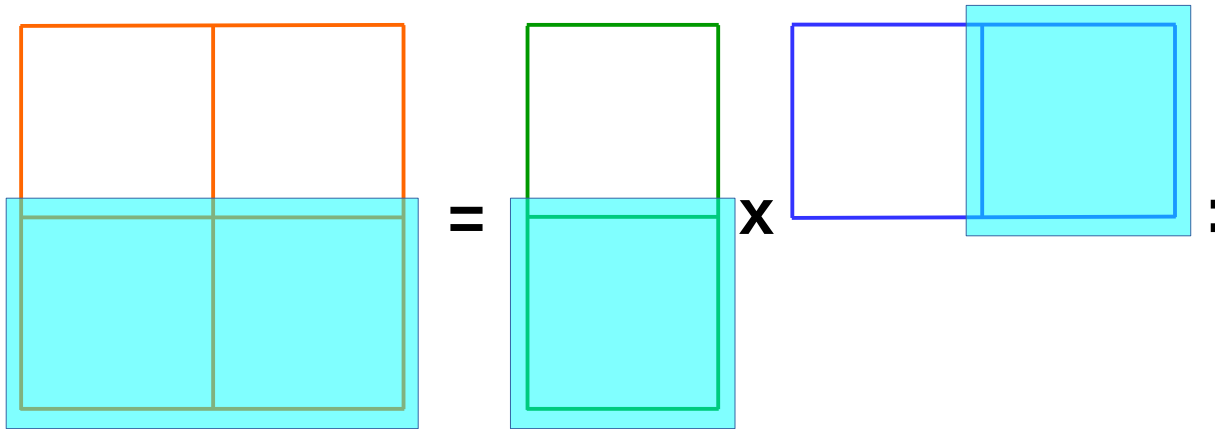
## Other assumptions:

- (A) Moderate overdecomposition for load balancing;
- (B) Batched task dispatch;

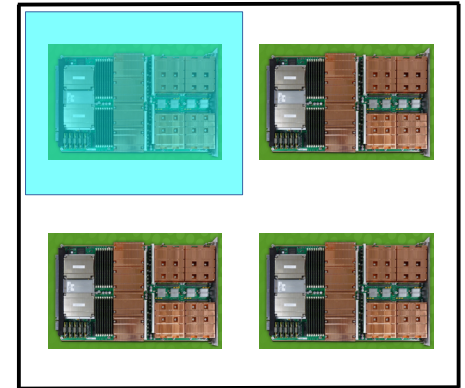
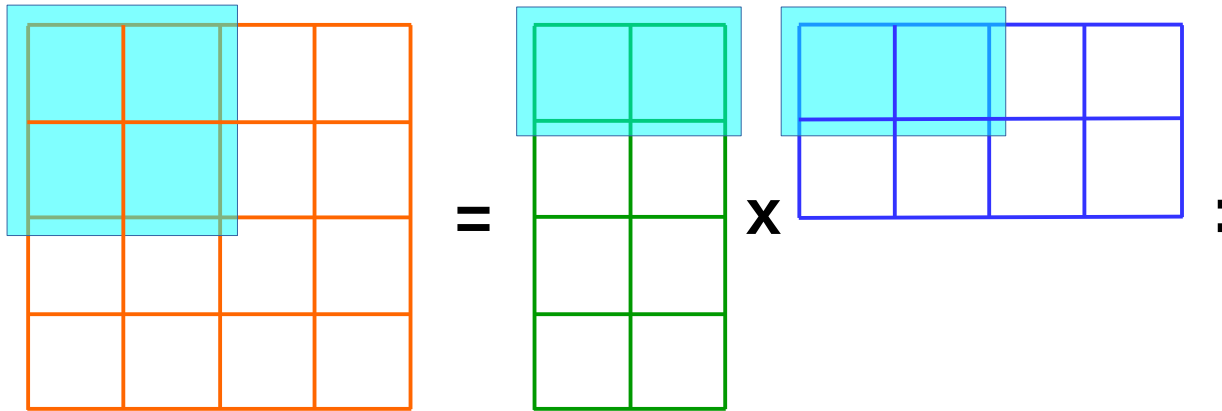
# ExaTENSOR: Dense matrix multiplication case



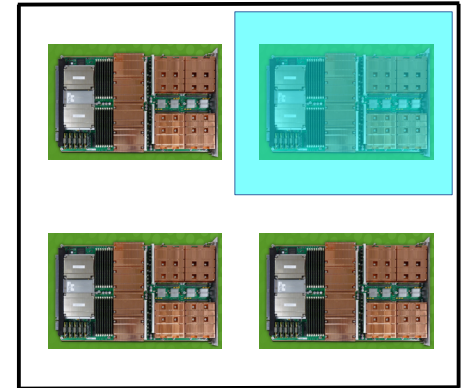
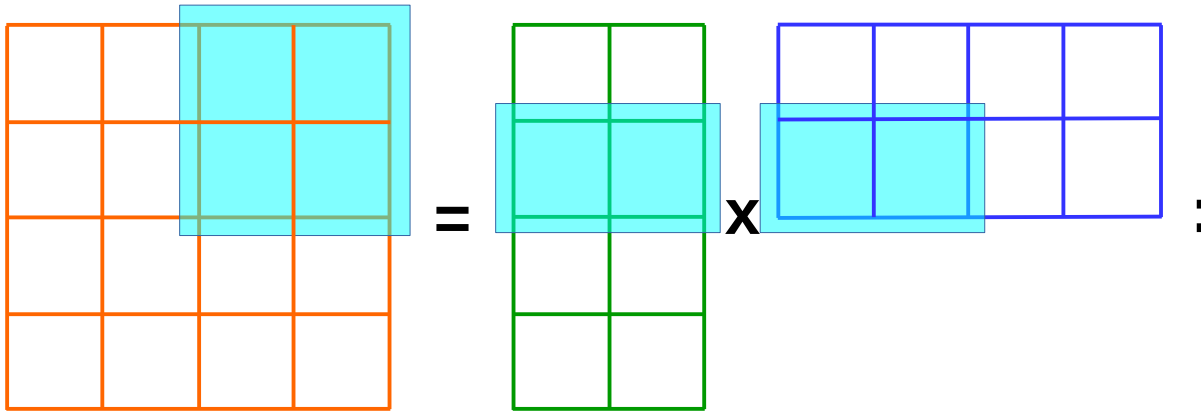
# ExaTENSOR: Dense matrix multiplication case



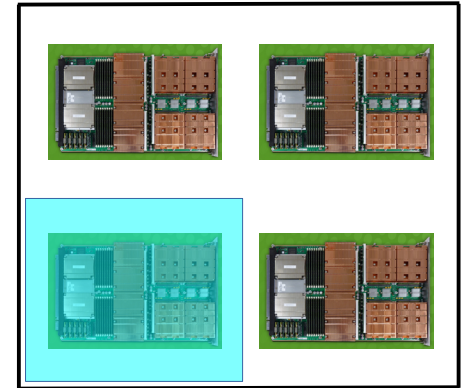
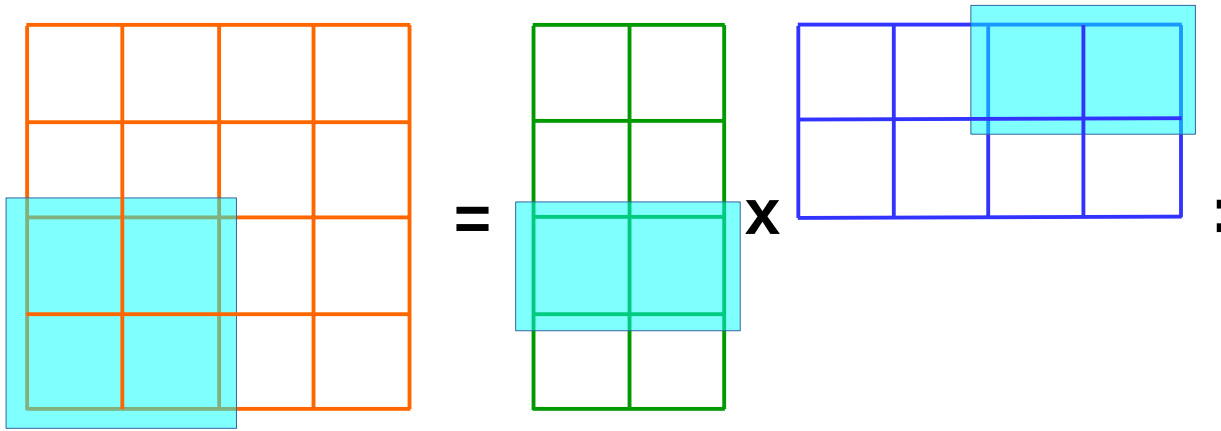
# ExaTENSOR: Dense matrix multiplication case



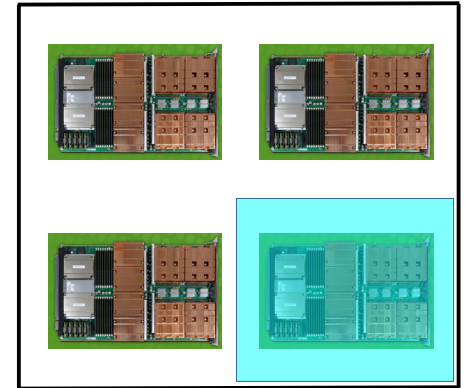
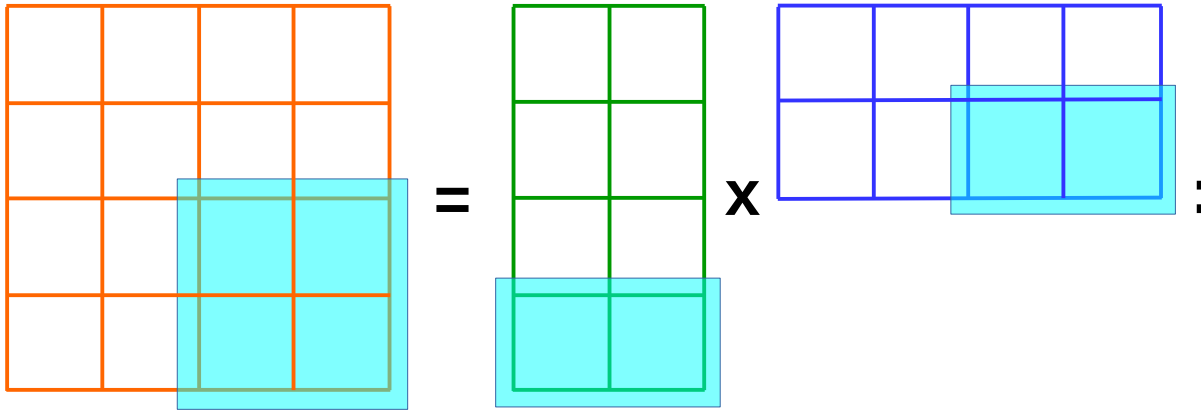
# ExaTENSOR: Dense matrix multiplication case



# ExaTENSOR: Dense matrix multiplication case

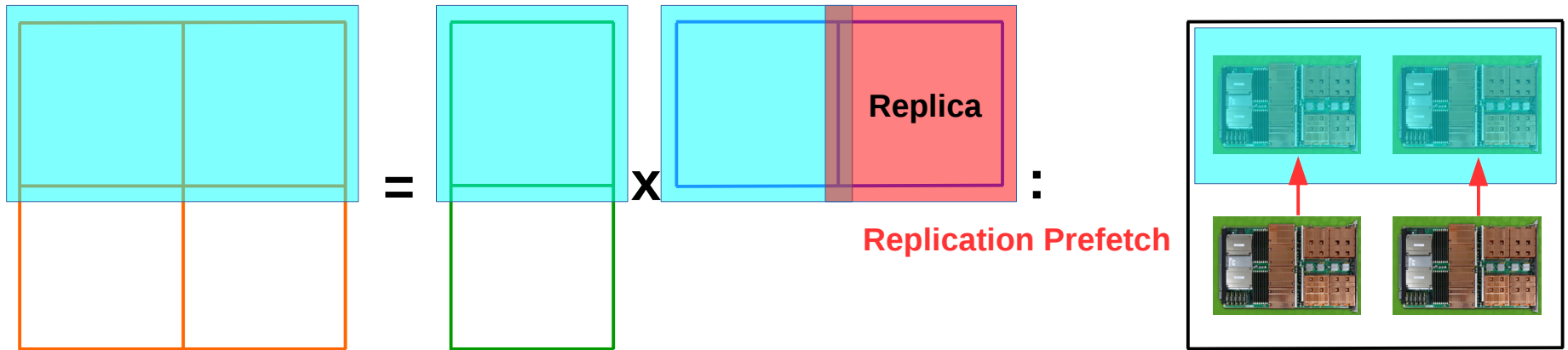


# ExaTENSOR: Dense matrix multiplication case

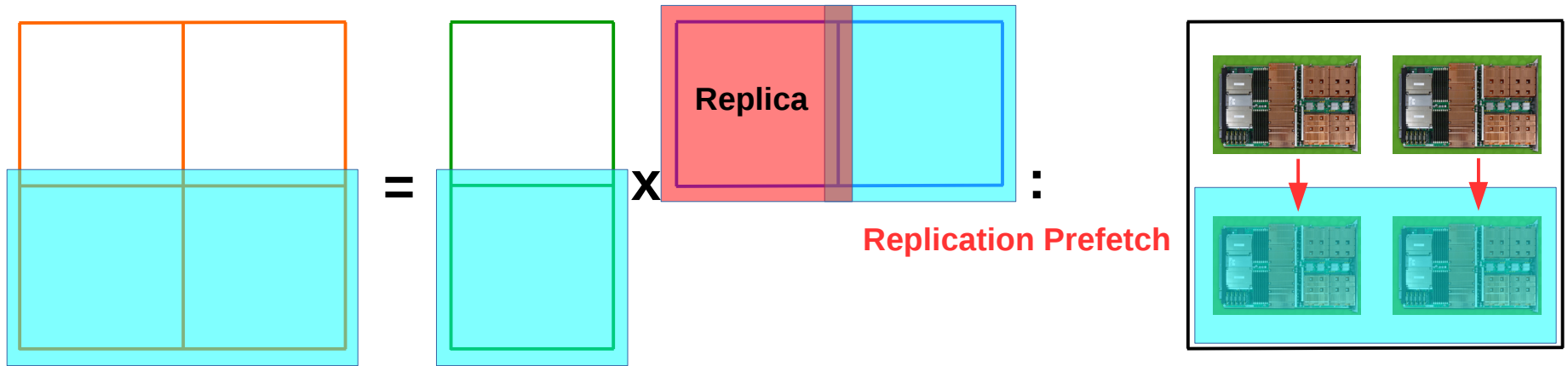




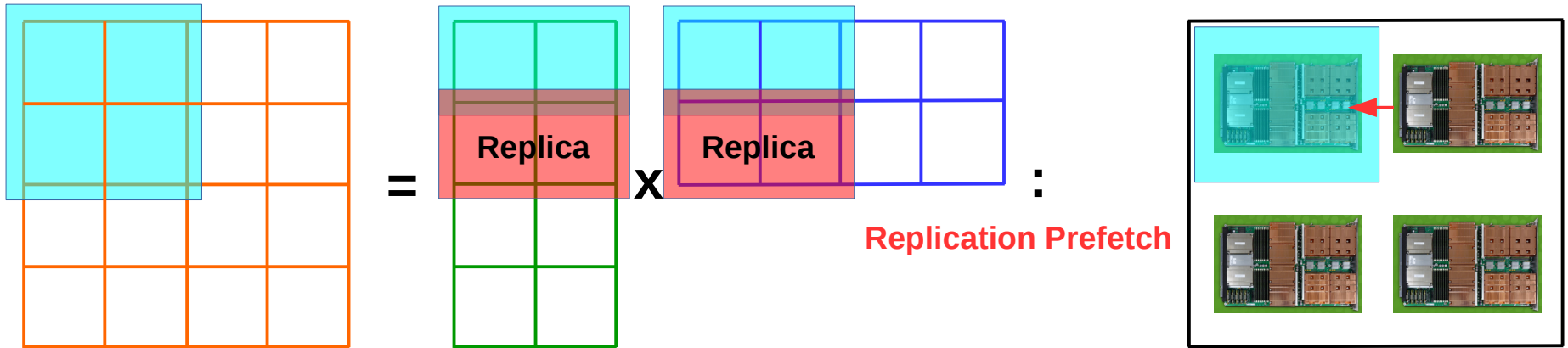
# ExaTENSOR: Dense matrix multiplication case



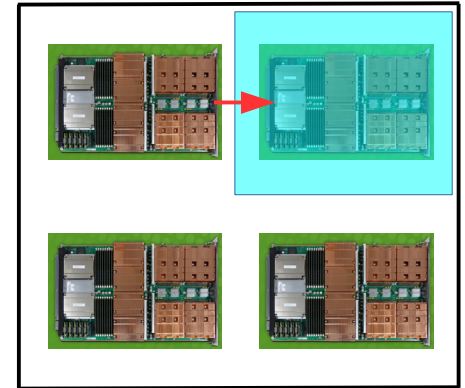
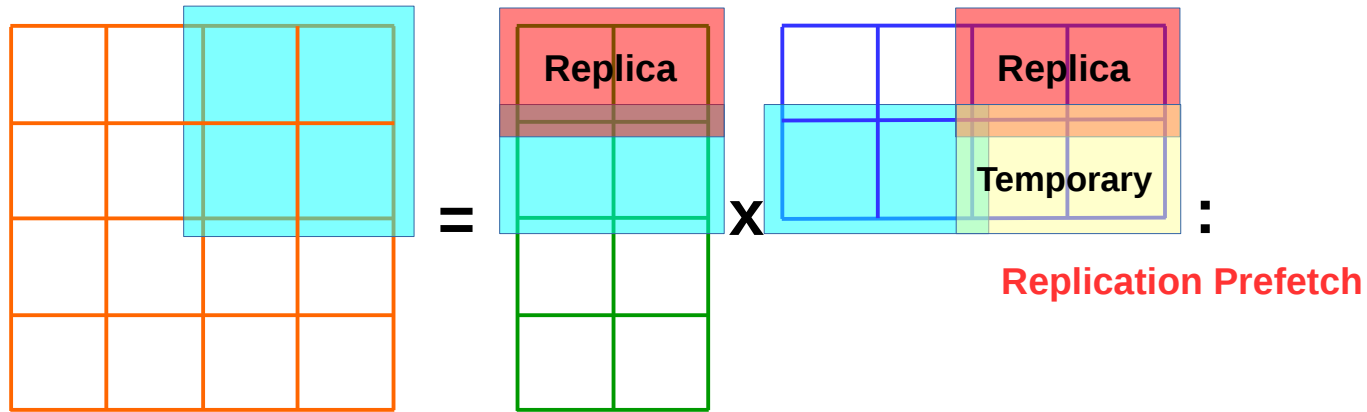
# ExaTENSOR: Dense matrix multiplication case



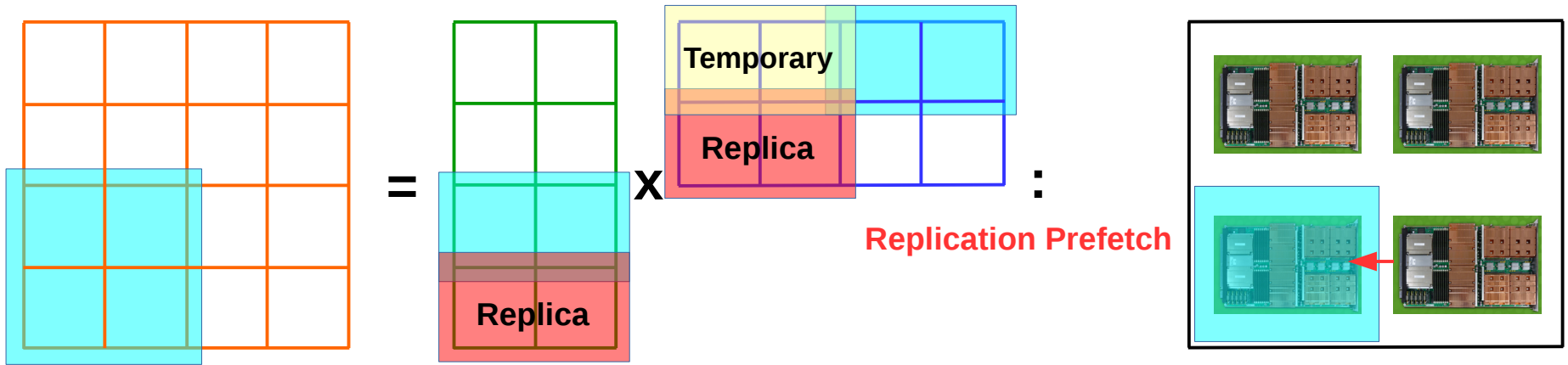
# ExaTENSOR: Dense matrix multiplication case



# ExaTENSOR: Dense matrix multiplication case



# ExaTENSOR: Dense matrix multiplication case



# ExaTENSOR: Dense matrix multiplication case

