

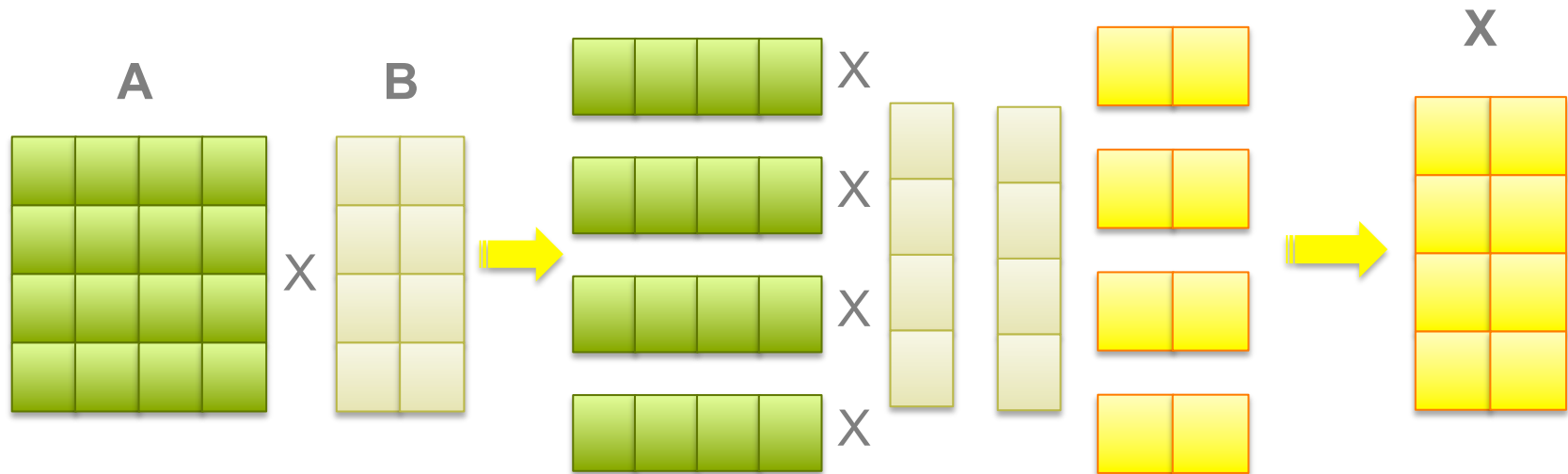


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Driving Application for the Tutorial

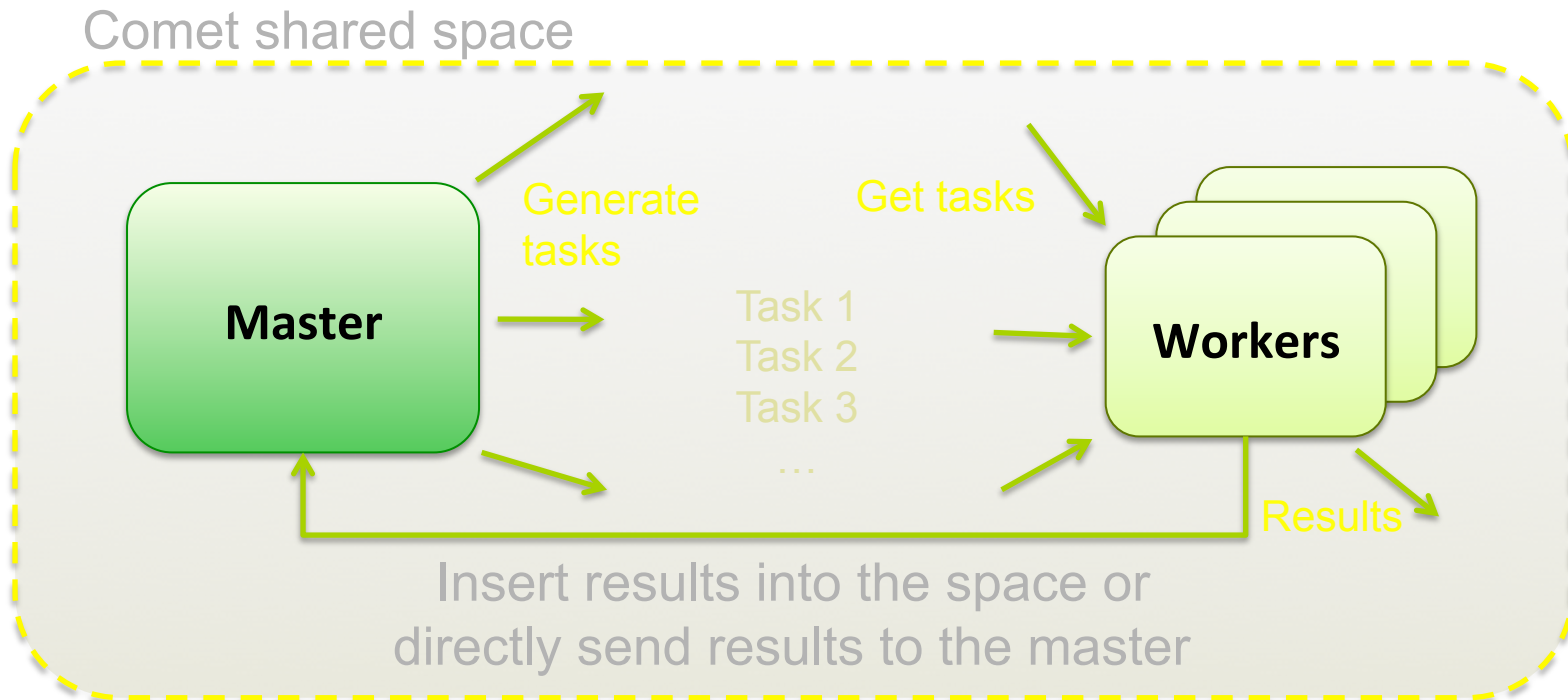
# **MATRIX MULTIPLICATION**

# Matrix Multiplication



# Master Worker

- Master ■ Read matrices dimension  $\mathbf{A}_{n,q}$  and  $\mathbf{B}_{q,m}$  from input file
- Master ■ Generate matrices  $\mathbf{A}_{n,q}$  &  $\mathbf{B}_{q,m}$  randomly
- Master ■ Create  $n \times m$  tasks and insert into the space
  - Each task contains  $1, n \times n, 1$  vectors
- Worker ■ Pull and execute one task at a time
- Worker ■ Perform vector multiplication & return sum
- Master ■ Gather results to matrix  $\mathbf{C}$  & print to screen



# Hands on Session Outline

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- Detailed outline of the sessions
- <http://tutorial.cometcloud.org>
- Download and setup instructions during break