

Network Diagram

1. Distributed vs. Parallel
2. Distributed Processing System
3. Parallel Processing System
4. Complicate Processing System
5. Example – Interaction



Master of Distributed processing system

Task A

Task B

Task C1

Task C2



Slave



Slave



Slave



Slave



Master of Parallel processing systems

Task 0 ~ $\frac{1}{4} N$

Task $\frac{1}{4} N \sim \frac{1}{2} N$

Task $\frac{1}{2} N \sim \frac{3}{4} N$

Task $\frac{3}{4} N \sim N$



Slave



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Slave



Slave



DistributedSystemArray

Task A

Task B

Task C₁

Task C₂



Slave



Slave



Slave



DistributedSystemArrayMediator

Task C₂-c

Task C₂-b

Task C₂-a



Slave



Slave



Slave



ParallelSystemArray

Task 0 ~ $\frac{1}{4} N$

Task $\frac{1}{4} N \sim \frac{1}{2} N$

Task $\frac{1}{2} N \sim \frac{3}{4} N$

Task $\frac{3}{4} N \sim N$



Slave



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ParallelSystemArrayMediator

Task 0 ~ $\frac{1}{4} N$

Task $\frac{1}{4} N \sim \frac{1}{2} N$

Task $\frac{1}{2} N \sim \frac{3}{4} N$

Task $\frac{3}{4} N \sim N$



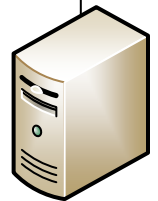
Slave



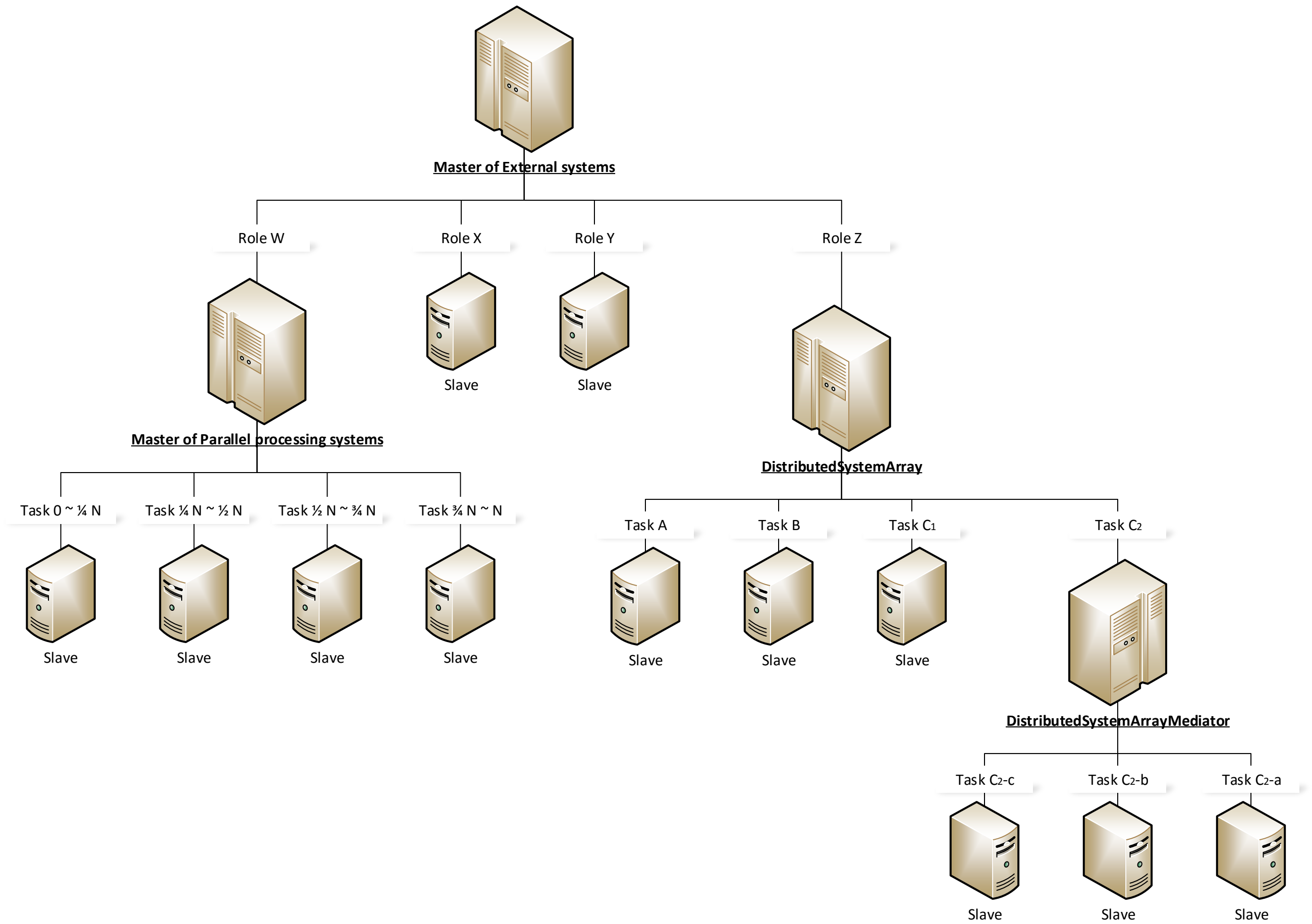
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TSP and Packer with Tree-structured network system

