

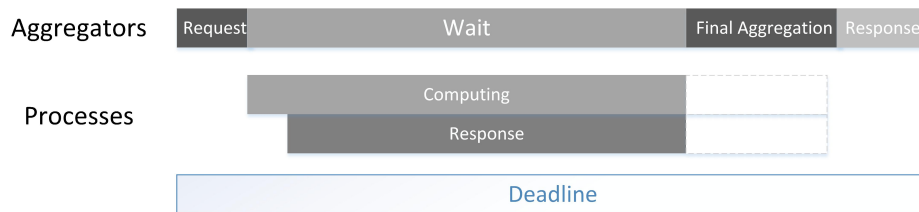
# Guaranteeing the response deadline for general aggregation trees

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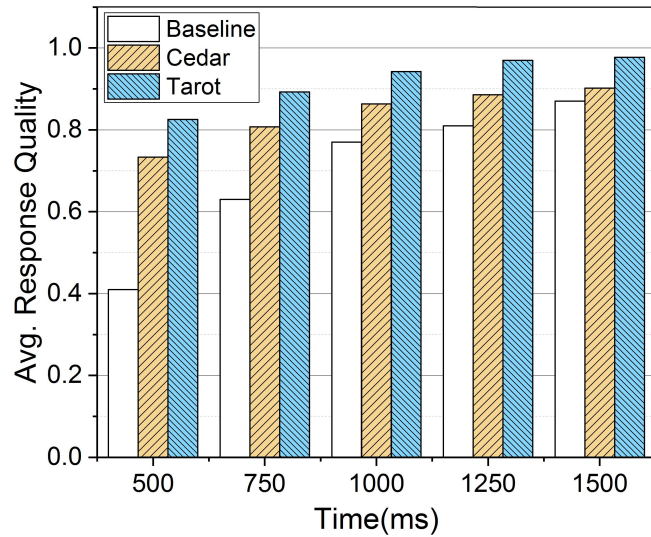
# Problems & Ideas

- Problems of improving the response quality under performance variations
  - Limited deadline
  - Variable processing speed
  - Multi-level aggregation tree
- Ideas: A aggregation query mechanism Tarot
  - Learning the distribution of process time by order statistics
  - Fine-grained partition of query deadline
  - Identifying slow process and reassigning tasks
  - Periodically aggregating the received outputs



# Main Contributions

- Average response quality of different method



- The improvement on multi-levels

