## Modeling

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| **Symbol** | **Description** |
| Topology | |
|  | The underlying network topology |
|  | The set of servers. |
|  | The set of links between servers, |
|  | The latency on link |
|  | The available bandwidth resource on link |
|  | The quantity of available resources of server |
| SFCs | |
|  | The set of SFC requests |
|  | The ingress throughput of request |
|  | The upper bound of latency of request |
|  | The set of VNFs of request |
|  | The set of configurations of SFC request r. |
|  | 1 if ith configuration is selected for request r  0, otherwise. |
|  | 1 if request is accepted;  0 otherwise |
|  | The latency when choosing the configuration for request . |
|  | The computing resources consumption of server s when choosing the configuration i for request r. |
|  | The bandwidth consumption of link e when choosing the configuration i for request r. |

## Objective functions:

### 最大request接受数量，最小latency

## Subjective functions (Constraints):

### Basic Constraints:

### Computing Resource Constraints:

### Bandwidth Constraints:

### Network Delay Constraints:

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|  | **Topology** | **SFC** |
| **Size** | 32~128 | 5~10 |
| **Throughput (Mbps)** | 1000~10000 (edge) | 100~1000 |
| **Computing Resource (Mhz)** | 4000~8000 (node) | 400~800 (VNF) |
| **Latency (ms)** | 2~5 (edge) | 0.2~2 (VNF)  Requirement: 10~30 |

1. 画图
   1. Fat-tree
   2. Non-para, single machine-para, para comparison
2. Algorithm
   1. Heuristic
   2. Greedy
3. Evaluation