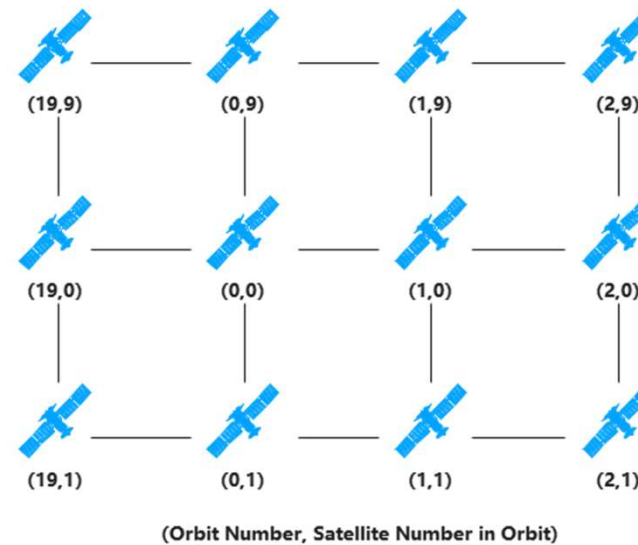


# Simulation Introduction

Basic simulation configuration for satellite network.

## Topology Configuration

- Satellite number: 20\*10
- Inclination degree: 65°
- Altitude: 700km
- Link bandwidth: 100Mbps
- Ground Stations: Shanghai、Nanjing、 Los Angeles

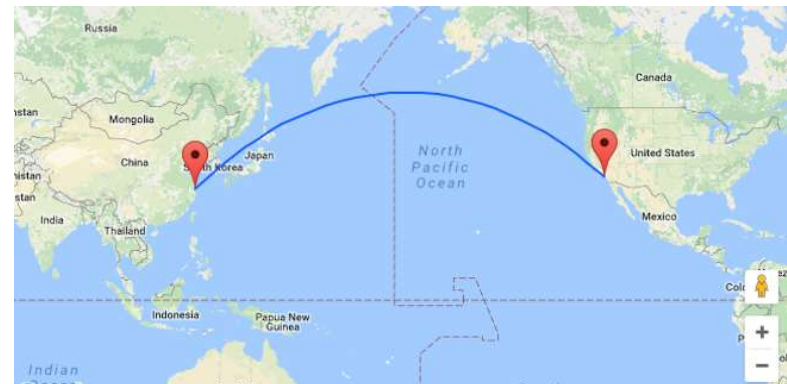


# Simulation Introduction

Basic simulation configuration for satellite network.

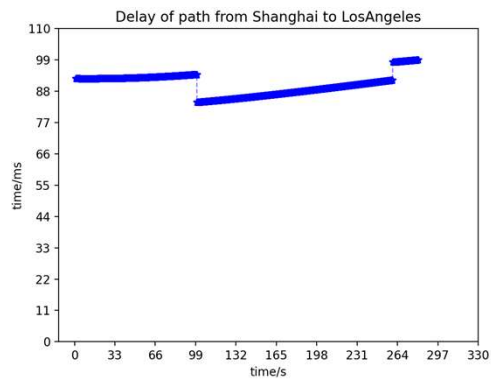
## Traffic Configuration:

- Simulation time: 300 seconds
- Transport layer protocol: UDP
- Sending rate: 2Mbps
- Max queue size: 100 pkts
- Source: Ground Station in Shanghai
- Destination: Ground Station in Los Angeles
- Routing protocols: OSPF

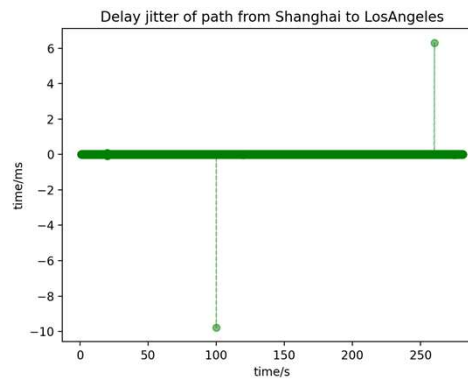


# Demo & Result

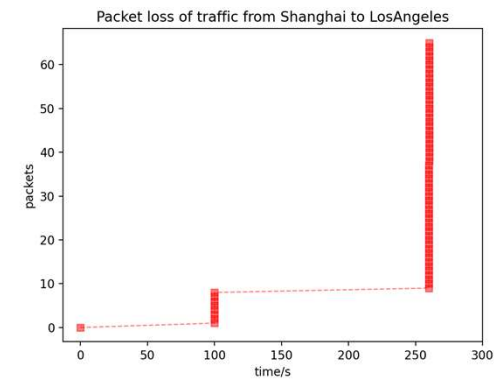
- Result1: Visualization of QoS Data.
  - There is a ISL interruption at the 100 seconds and a GSL switching at the 260 seconds.



Delay variation



Jitter variation

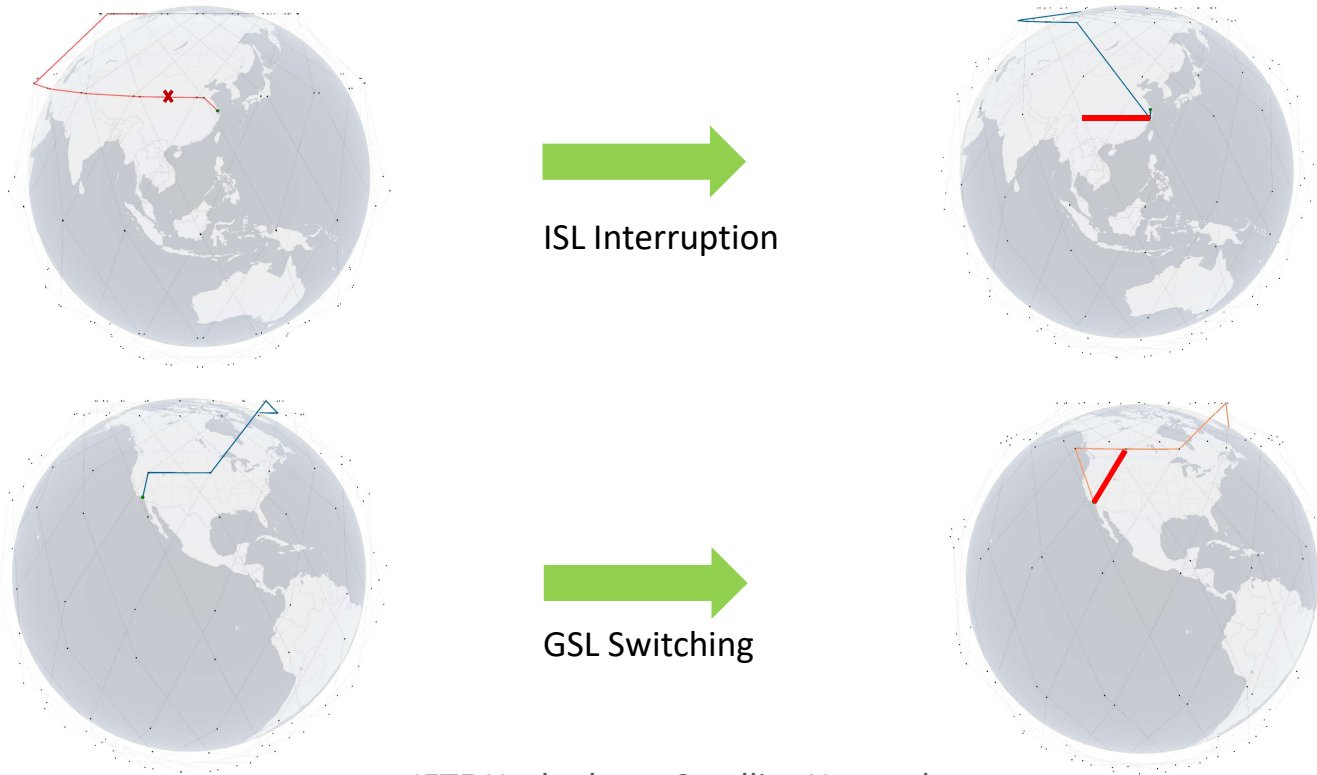


Packet Loss variation

The ISL interruption and GSL switching will result in the huge delay jitter and packet loss.

# Demo & Result

- Result2: Visualization of path switching.



IETF Hackathon: Satellite Network