Influence of DNSSEC
The network testing for DNSSEC feasibility analysis in China

**Methods**

a) Cooperate with main ISPs to check the network infrastructure (130K equipments)
b) Test thousands resolvers in these ISPs
c) Cover most areas and most ISPs in the mainland of China

**Problems**

- MTU problem
- Firewall should support EDNS0
- DNS performance

**Network bandwidth grows to 4.5 times after DNSSEC deployment**

**3000 queries/second**

- 1.18 Mbit/s
- 0.26 Mbit/s

**DNS&DNSSEC bandwidth comparison**
More issues should be considered before DNSSEC deployment

- DDOS attack
- Amplification attack
Influence to end user

More tools are being developed by CNNIC

We are developing

- **Monitor system for DNSSEC**
  a) Monitoring name server
  b) Monitoring resolver
  c) Monitoring important third level domains

- **Visual tools for end users**
  a) Check DNSSEC packets
  b) Analyze the trust train of DNSSEC
  c) Give reasonable warning for end users