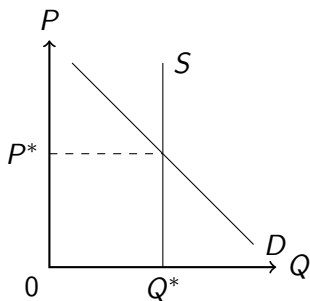


Market for IPv4 addresses

- ▶ IPv4 address is a durable, homogeneous asset - finite life?
- ▶ Fixed supply of addresses and change in demand over time



- ▶ Early hypothesis - Prices should fall with IPv6 adoption

Research Question and hypotheses

- ▶ What can explain rising prices for a finite horizon asset?
- ▶ Hypotheses:
 - ▶ Market failure - asymmetric information
 - ▶ Endogenous outcome of transitioning from one standard to another

Data sources

1. **Market transfers:**Source, Recipient -
BGP Looking Glass, Geolite2 - ASN blocks,code to match manually either source/recipient
2. **IPv4 allocations:**Org (Not consistent over time)
Geolite2 - ASN blocks
3. **IPv6 allocations :**Org (Not consistent over time) -
Geolite2 - ASN blocks
4. **No: of users:**ASN
5. **Firm type/Cone size:**ASN

I was hoping to create a panel data - each firm over time to study their behavior

Binary variable for IPv6 adoption - % level of IPv6 adoption would be great to understand when the standard would tip!

Empirical Facts

- ▶ Heterogeneity in IPv6 adoption at the segment level
- ▶ IPv6 adoption driven by firms that received IPv4 addresses after 2006
- ▶ Firms sell addresses in multiple transactions- adjustment costs?