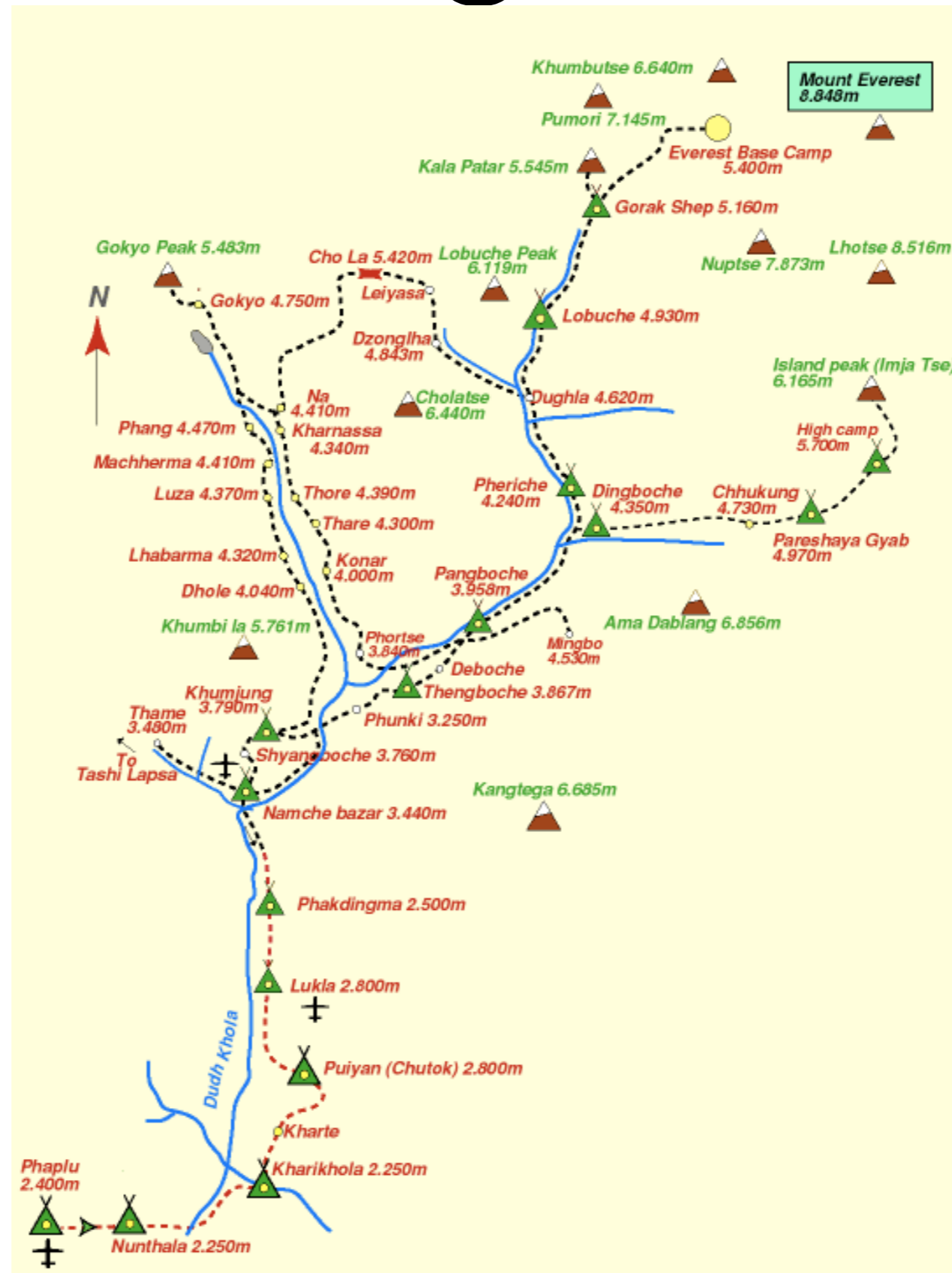


# IPv6 - How far we have come..

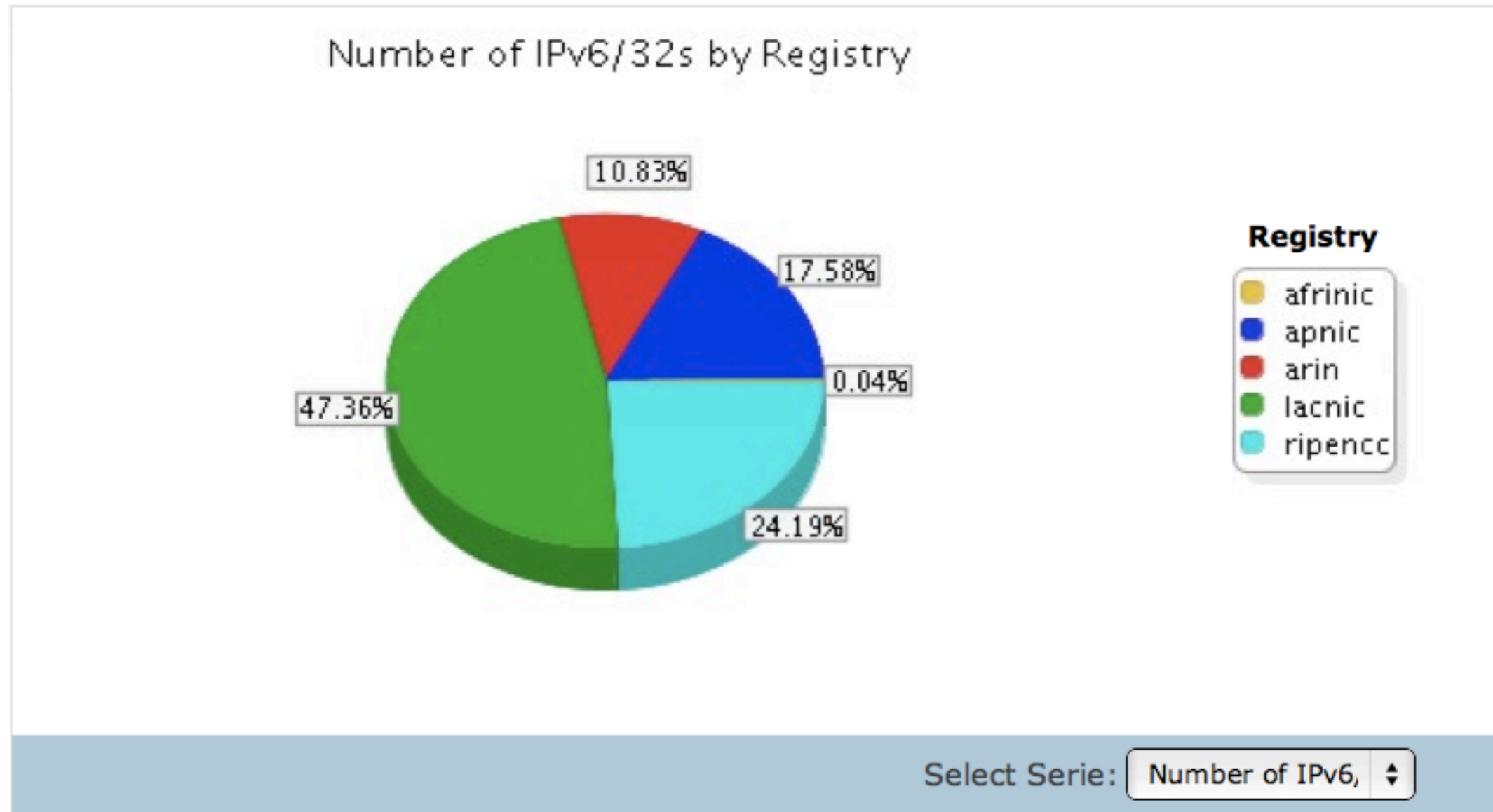
Gaurab Raj Upadhaya  
v6 trekker

# Climbing Everest



# v6 Allocation Data

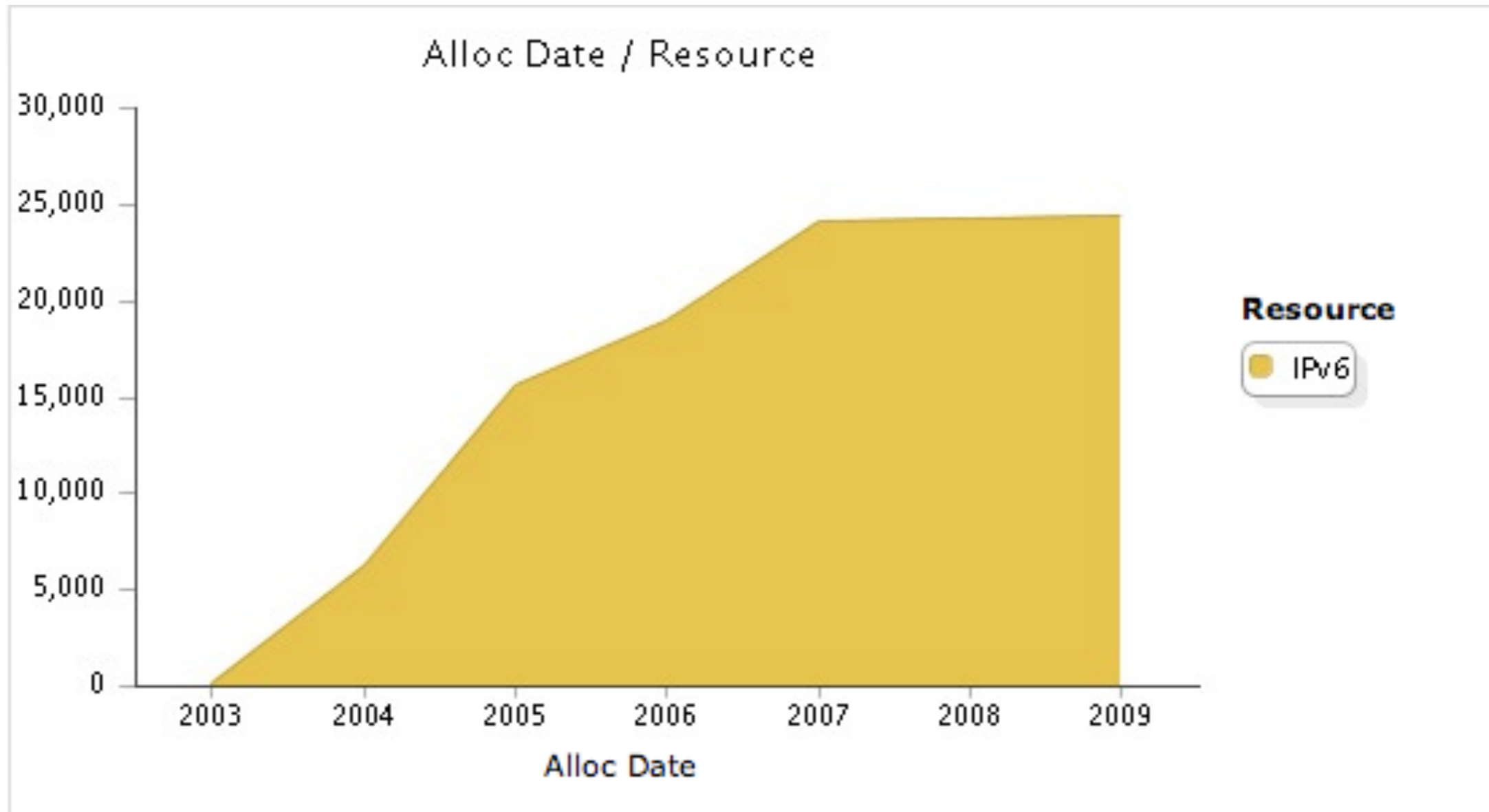
- IANA - ~ /8 total allocated to RIRs, other



*Global IPv6 distribution*

- <http://www.apnic.net/publications/research-and-insights/stats/ipv6-geographic>

# Distribution trend

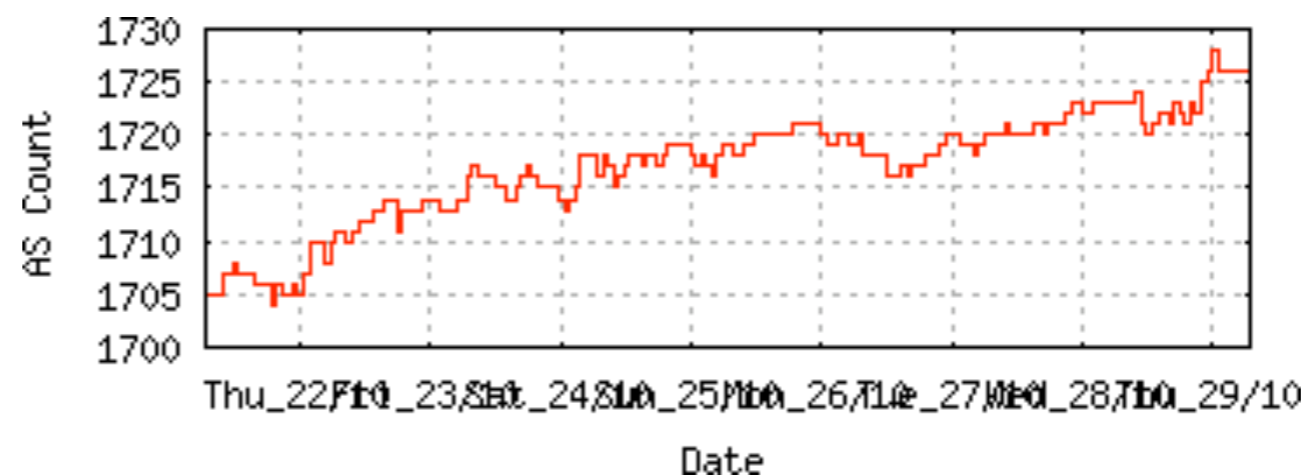
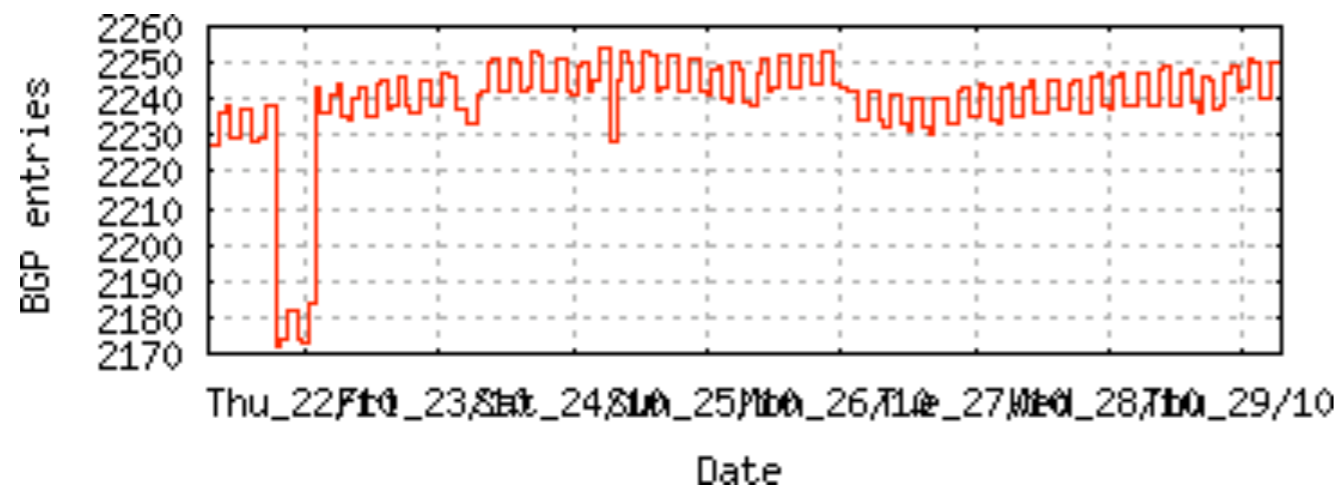


*IPv6 cumulative distribution (number of /32 delegated)*

- <http://www.apnic.net/publications/research-and-insights/stats/ipv6-distribution>

# How many Routes ?

- 2048 routes as of today



# DNS

- All gTLDs have v6 NS for a while now
- But not many registrars support inserting your v6 NS glue into the system
- Not many ccTLDs have had support
  - ~50 (~ 25% of the overall), but there are ~200 unique v6 glue on the root zone.
    - Their registry system may still need updating
    - Server Ops ready, TLD ops not yet.

# Applications

- Most mainstream OSes have supported v6 for quite a while
- Applications that are stack agnostics should work anyway
  - Not really always though
- Serverside applications are mostly there
- Userside applications vary..
  - No killer app



Routing, DNS, Infrastructure

Applications and development

User space



# How far really.

- Climbing the summit is still a tough job..
- But getting there...



# When we get there





# Thanks

- Questions
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