



# IPv6 Deployment – IPv4 lifetime Exhaustion sooner than expected?

**Tony Hain**

**Cisco Systems - Technical Leader**

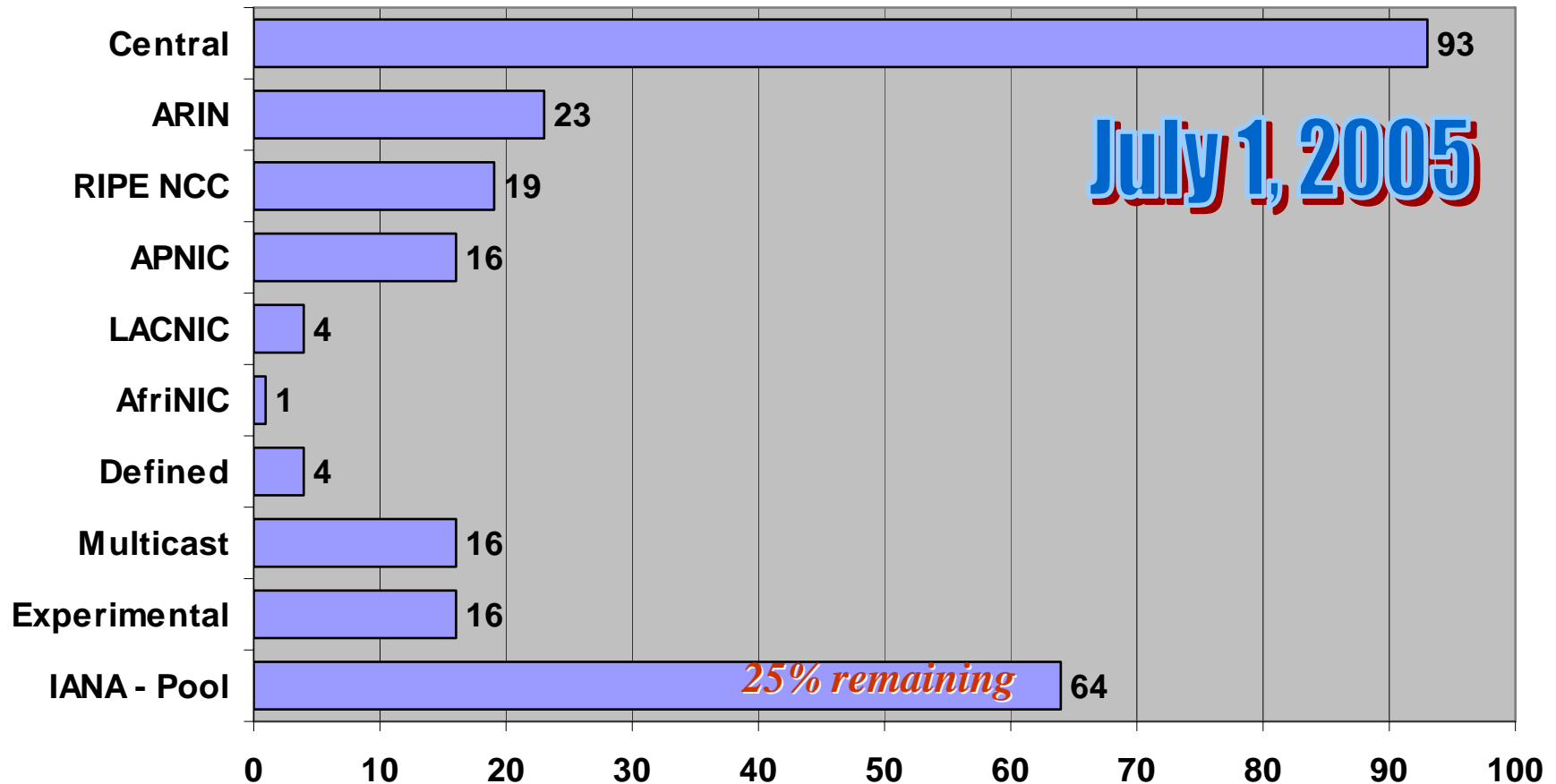
**IPv6 Forum Fellow**

**[ahain@cisco.com](mailto:ahain@cisco.com)**



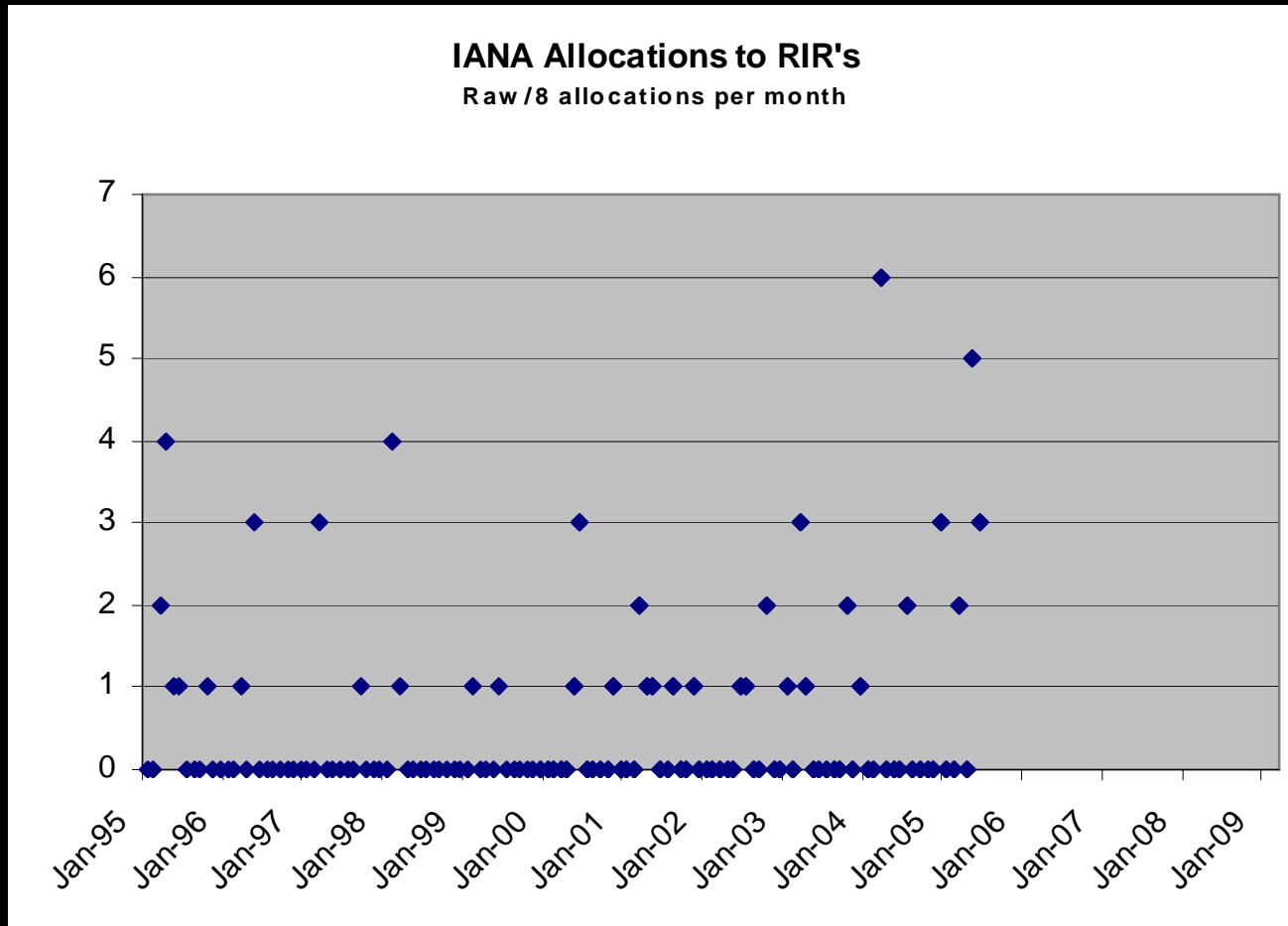
# Distribution of IPv4 addresses by /8

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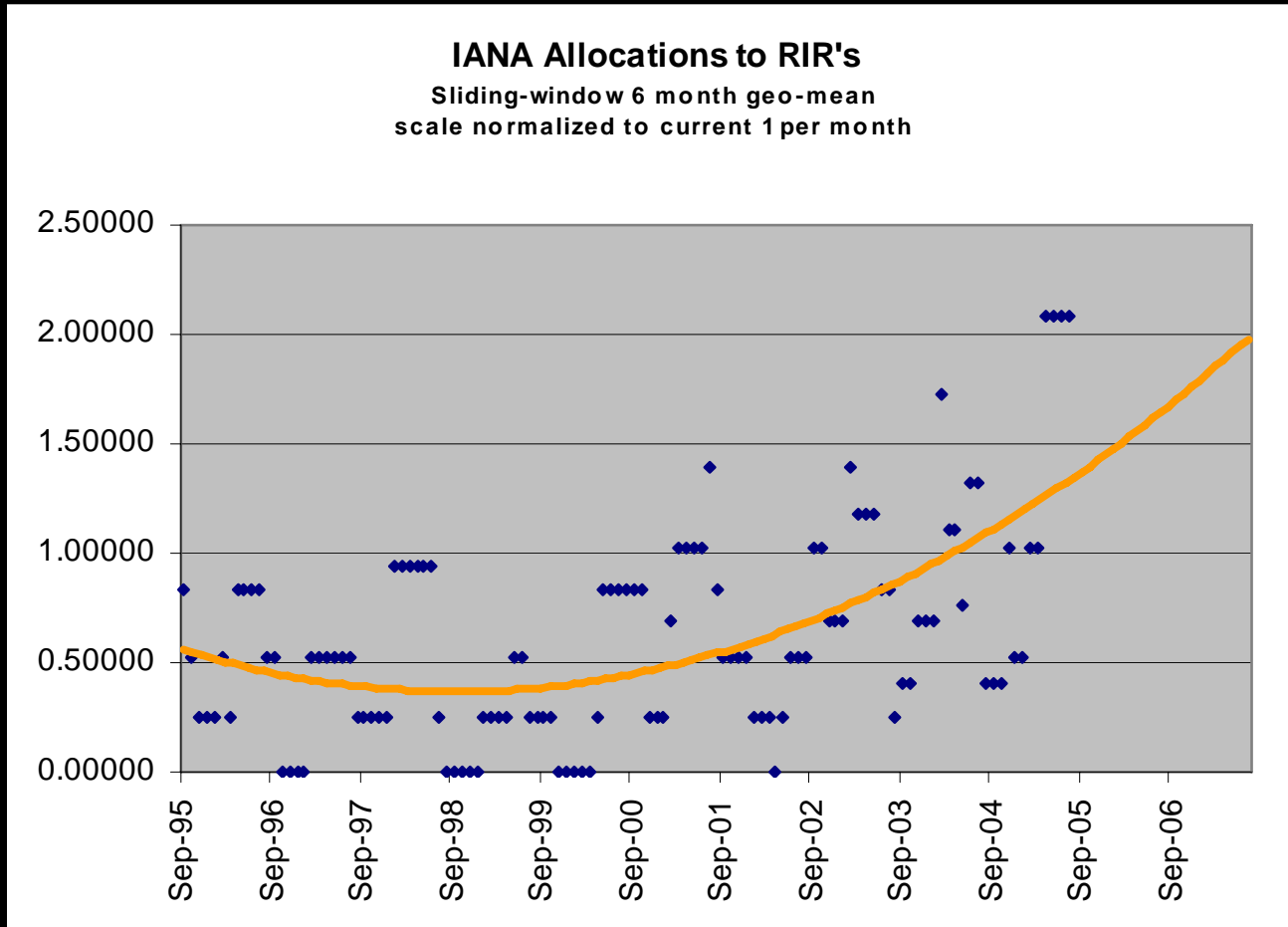


IANA allocated 22 /8's between Jan. 1, 2004 and Jul. 1, 2005

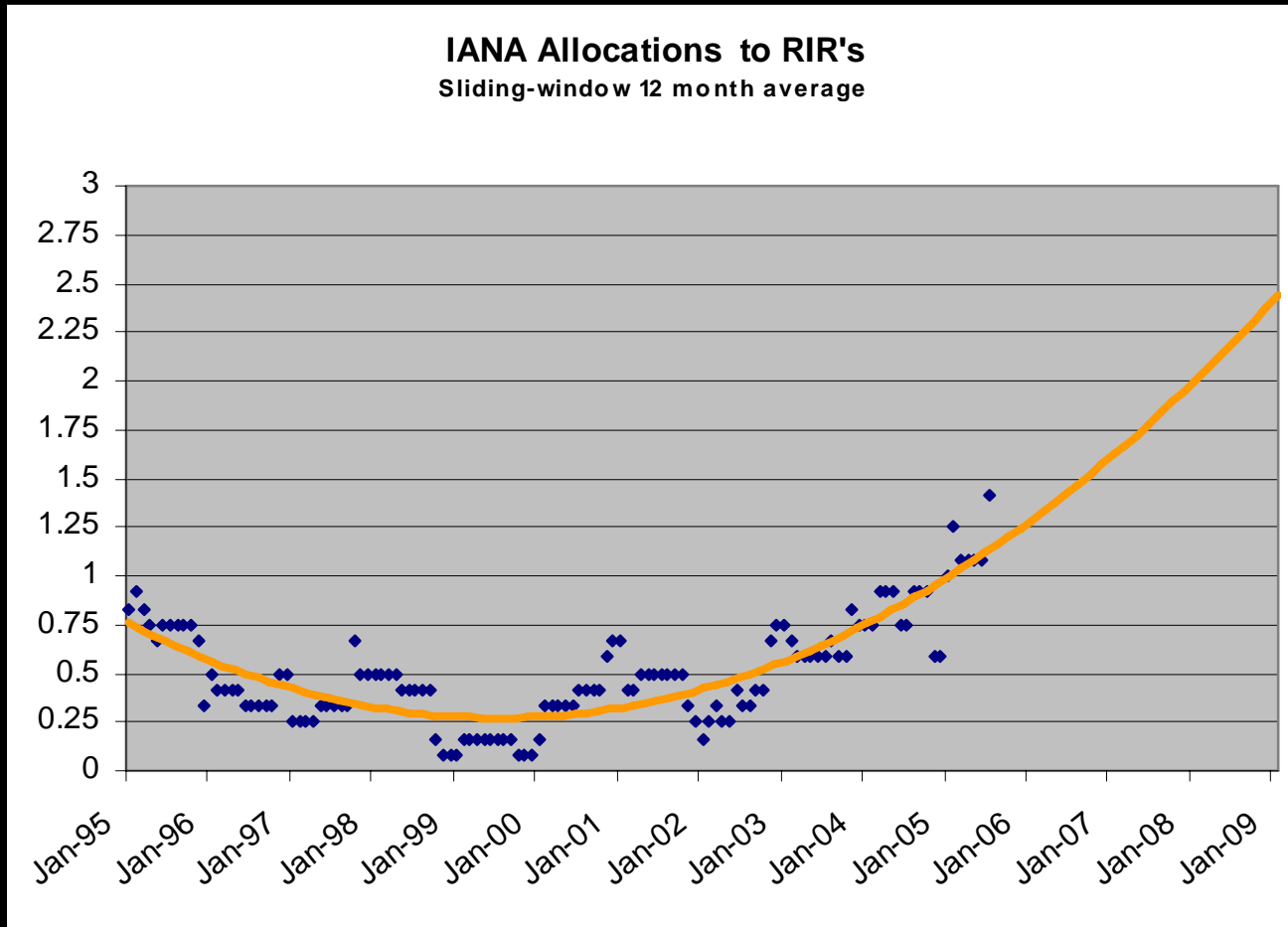
# Allocation of IPv4 /8 blocks per month by IANA



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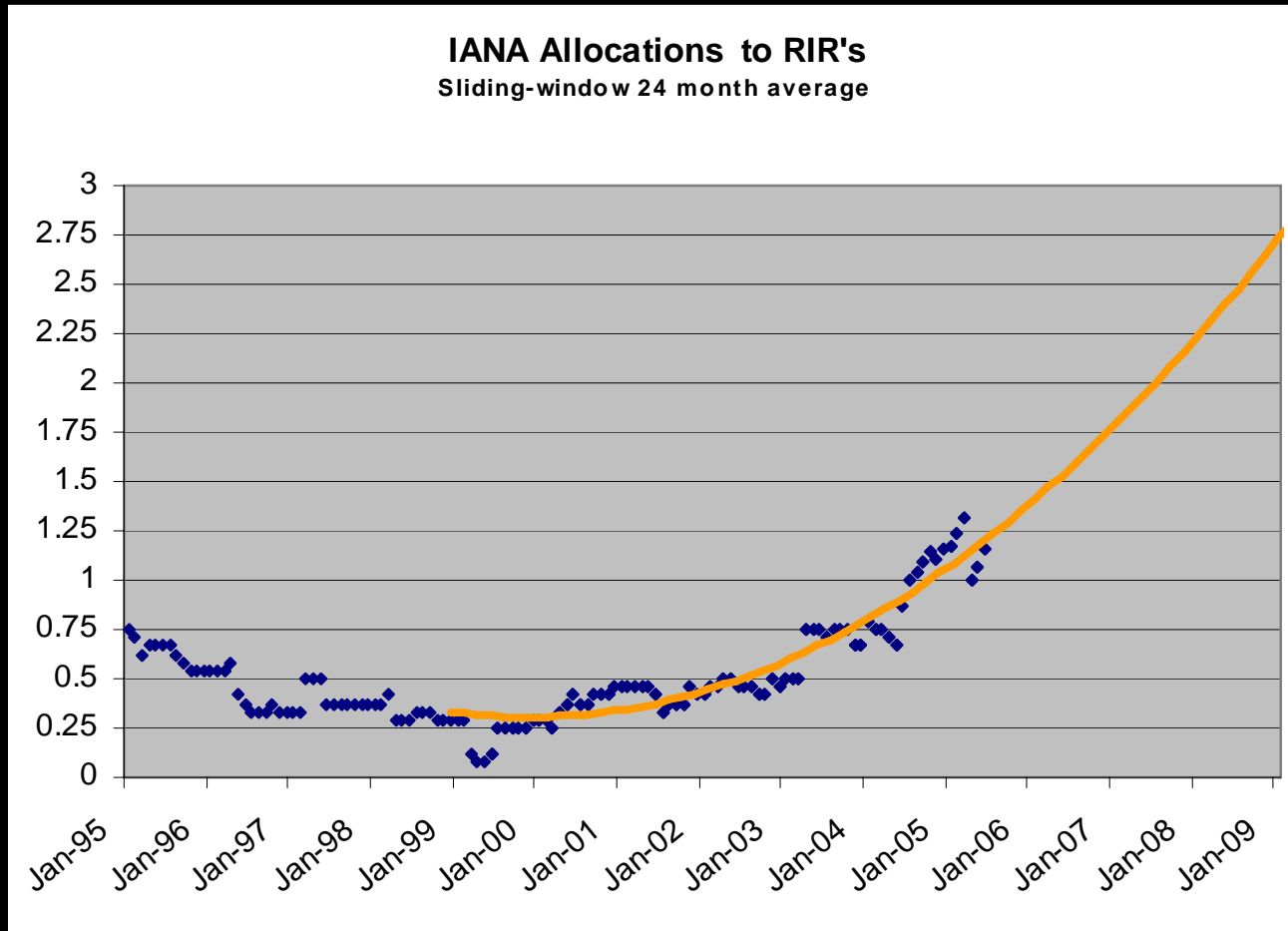


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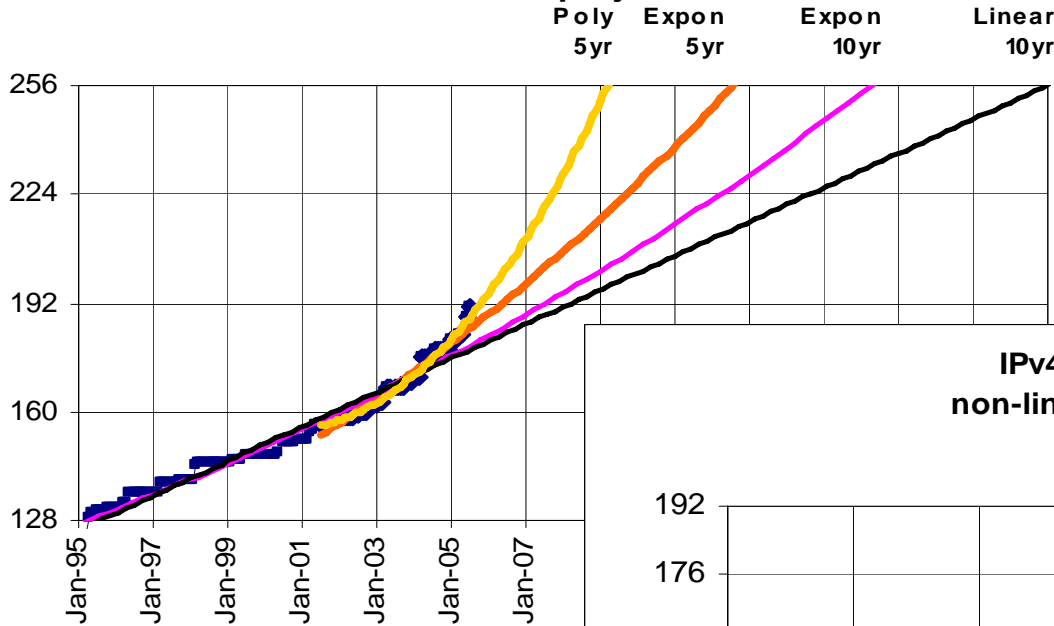


# Observations

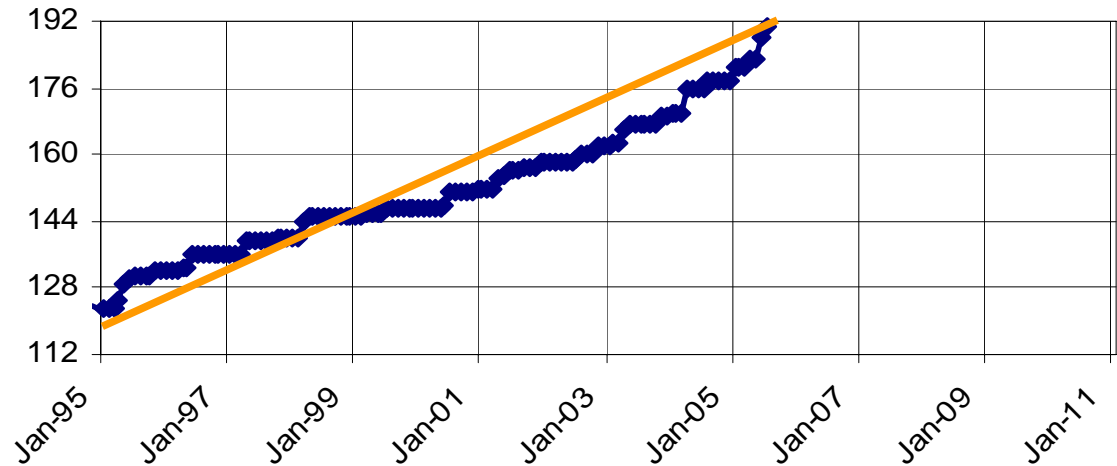
- A flat rate of  $.75 / 8$  per month applied to the remaining pool of 64 lasts 7.1 years.
- A flat rate of  $1 / 8$  per month applied to the remaining pool of 64 lasts 5.3 years.
- A compound consumption growth rate depends on the compounding factor.

# IPv4 lifetime projections

### IPv4 lifetime projections

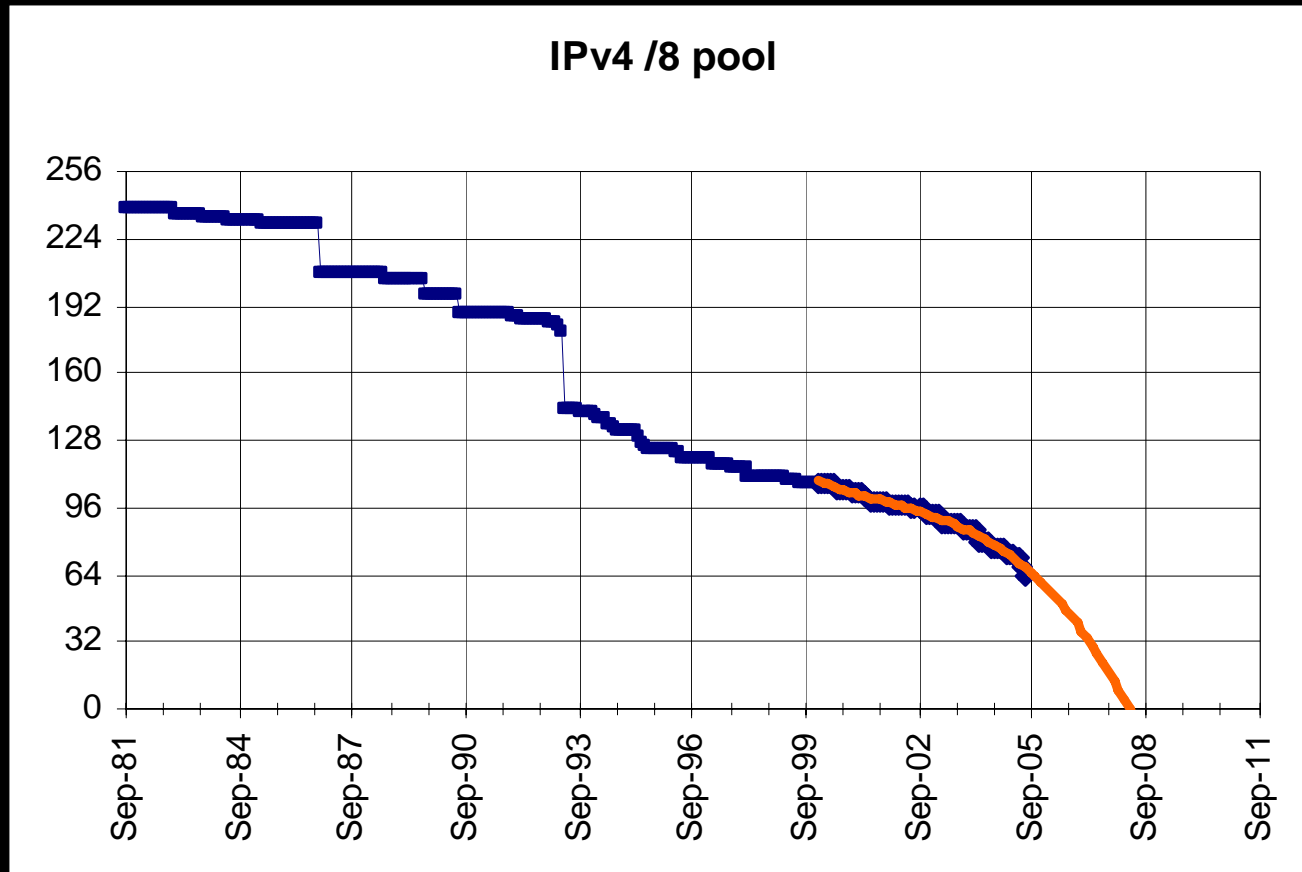


### IPv4 lifetime projection non-linear nature of raw data





# Pool exhaustion

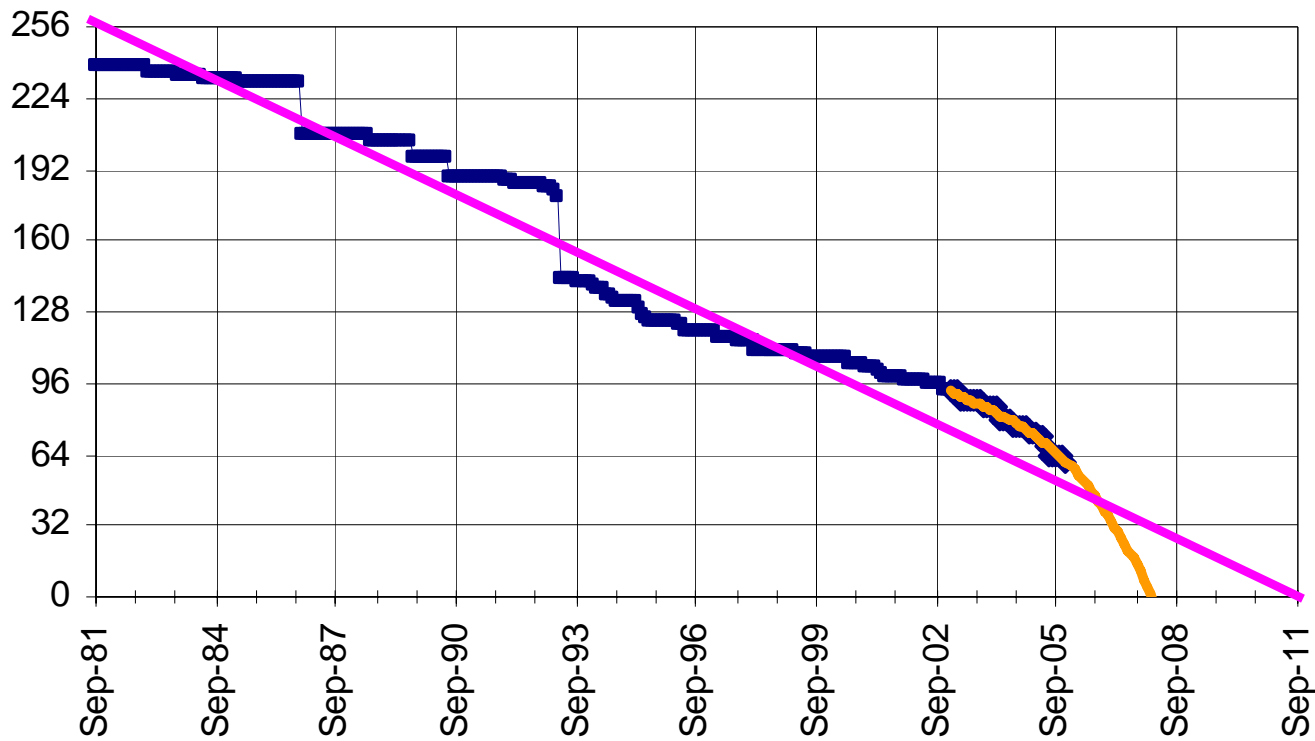


Full discussion at: [www.cisco.com/ipj](http://www.cisco.com/ipj)

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# Another perspective

### IPv4 /8 pool - projection from Jan. 2003



# Summing it up

