



## **AAAA Deep Dive: DNS Resolution Anomalies and Performance across a Huge Data Set**

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Much has been written about IPv6 adoption and its performance. One thing that has not been explored is how IPv6 DNS resolution contributes to overall user experience. What impact does transport, authoritative server configuration and other factors have on the “long tail” of domains queried over IPv6? This talk will present experimental results using a data set of approximately 35 million unique names and query types, extracted from production resolvers around the world. This data will feed `dnperf`, a widely used utility for evaluating DNS performance, to query resolvers set up in the following ways: IPv4 only, IPv6 only, & prefer IPv6, all with EDNS0 on by default, along with a control server with EDNS0 off. Differences in resolution performance will be evaluated and presented for each of the resolvers.

### **Summary**

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