
Updates on IPv6Fix

<<http://v6fix.net/wide-draft-v6fix-en>>

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What's IPv6Fix?

- A new activity in the WIDE project
 - Fix problems obstructing migration to IPv6
 - Documentation (almost done, continued)
 - draft-ietf-dnsop-misbehavior-against-aaaa
 - <http://v6fix.net/wide-draft-v6fix-en>
 - Collecting specific incidents (ongoing)
 - network measurement
 - analyze implementation behavior
 - Negotiating with operators/vendors (ongoing / future plans)
- IPv6Fix web page
 - <http://v6fix.net/>

Recent Result 1: On-link Assumption

- Examined various implementations
 - *BSDs, Linux, MacOS-X, Solaris, Windows XP
 - Result was not bad
 - problem doesn't exist, or
 - there is workaround
- Summarized the results at
 - <http://v6fix.net/wide-draft-v6fix-en>
 - with known workaround
- Correction/additional information are welcome

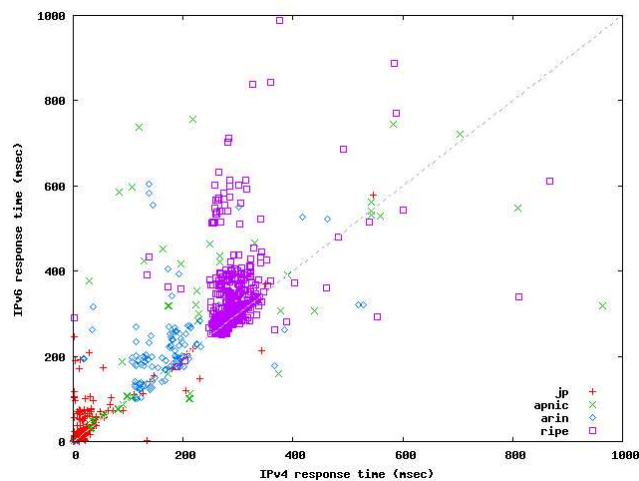
Recent Result 2: DNS Misbehavior Survey

- A collaborative research with JPRS
 - checked DNS domains / auth servers under ".JP"
 - using automatic test tool
 - send AAAA queries to "www.[tested domain].jp"
 - see what happens
 - summarize result
 - 0.04% domains / 0.11% servers had problems
 - contacted the administrators using SOA "RNAME"
 - several responses providing product information
 - information will be available at <http://v6fix.net/>

Recent Result 3: IPv6 Network Quality

- Measurement on IPv6 connectivity vs IPv4
 - based on ping RTT to particular destinations
 - from WIDE/IIJ/Consulintel
 - <http://mawi.wide.ad.jp/mawi/dualstack/>
- Most sites are good for both v4 and v6
 - still found poor results on v6 connectivity for some sites
- Feedback to site admins (planned)
 - 2005 2Q-3Q
 - check major paths around the site using traceroute
 - (identify suboptimal tunnel settings)
 - send the check result to the site

IPv6 Network Quality (from WIDE, Jan05)



Next Steps

- Further investigation
 - DNS/network quality/Firewalls
- Release product information (soon)
- Ask vendors for improvements
 - Ongoing: DNS
 - Planned: firewall, network quality
- Please help us
 - further check/measurement on DNS
 - collaboration with other TLDs
 - release the test tool
 - specific product / workaround information
- Public ML for open discussion
 - users@ipv6.org?