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128.9.0.107

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## B-Root Moved

- B.root-servers.net changed its IP address 29-jan-2004.
- Old address continued serving until 01-aug-2006.
- Query rates:

2003	8000/sec
2004	2000/sec
2006	2500/sec
- Why did traffic increase?
- Bill says that number of clients querying went up as well.

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# Possibilities

- Lots of places using an old hints file?
  - But Bill's data shows queries from recently released code (BIND 9)
- Maybe old resolvers are hiding behind newer forwarders?
- Maybe people update the code but not the hints file?
- Maybe people modify the source code?
- Address placed into resolv.conf?
- Cache poisoners hand out old address in their bad referrals?
- ??

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## Bad Referrals

- Analyzed March 2006 cache poisoning survey data.
- Found 128.9.0.107 in referrals from:
  - ns1.secondary.com.
  - ns2.secondary.com.
  - udns1.ultradns.net.
  - pdns1.ultradns.net.
  - pdns2.ultradns.net.
  - pdns5.ultradns.info.
  - pdns6.ultradns.co.uk.
  - ns2.futurerequest.net.
  - ns3.futurerequest.net.
  - ns1.futurerequest.net.
  - dns1.ispgateway.de.
  - dns2.ispgateway.de.
- UltraDNS fixed their referral around 05-nov-2006.

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## Another survey

- Nov 6 12:10:00 — Nov 8 11:00
- Sent a query for b.root-servers.net to 82,579,153 randomly-chosen IP addresses.
- Got 505,072 replies.

192.228.79.201	502765
172.16.0.254	353
<b>128.9.0.107</b>	251
192.168.1.1	149
193.168.1.1	141
198.18.1.1	34
0.0.0.0	24
69.90.42.5	10
68.168.78.92	10
61.58.180.49	8