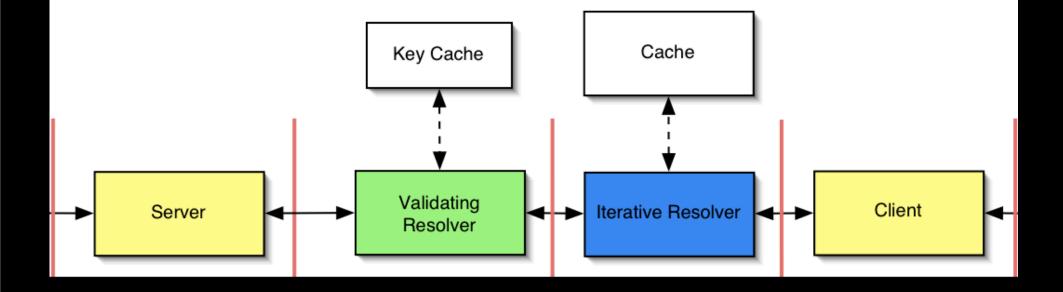
UNBOUND a validating caching resolver Brett Carr, Nominet

history

- 2004 modular design
 - Nominet/Kirei/EP.net
- 2005 JAVA based prototype
 - Verisign
- 2006 C based production code
 - NLnet Labs, you know, NSD & Idns

modules



Why a new resolver

- code diversity
- IETF "running code" requirement
- Alternative validator

Target

- Workgroup local DNS resolvers
- Large caching resolver installations
- Validating library (libunbound) for apps

Support

- Supported by NLnet Labs.
 - not for profit, public benefit foundation
- 2 year change notice.
- Version 1.0.0 released May 2008
- Version 1.0.2 released August 2008
- get it at http://unbound.net

Basic Features

Recursion

- v4/v6 dual stack support
- Access control
- DNSSEC validation
 - includes NSEC3 plus opt-out
- Caching

additional features

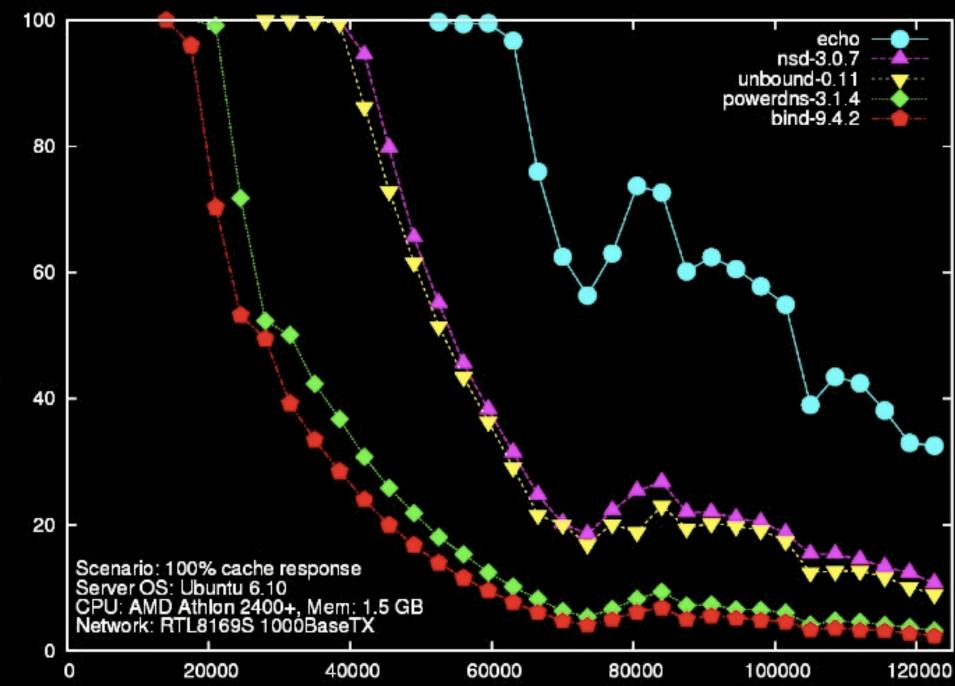
- optional thread support
- trust anchor configuration
 - rb-tree for trust anchors
- No authoritative server, but:
 - will serve localhost/1918
 - can block domains

Security

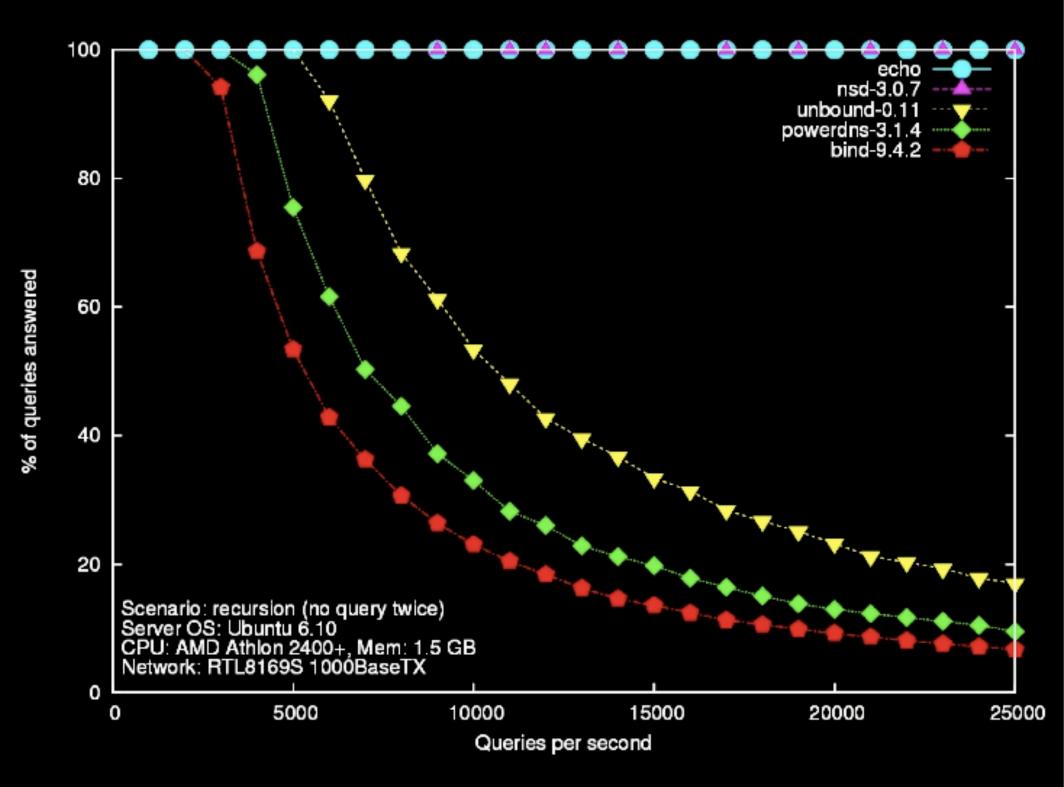
- full implemented Forgery Resilience
 - qname matching
 - strong prng for ID/UDP/source address
 - RTT banding
- rfc 2181 trust model

Tests

- Regression Tests
- Beta Tests
- Performance Tests



% of queries answered



Summary

- Unbound, validating caching resolver
- BSD license
- standards compliant, including DNSSEC
- High Performance
- runs on Linux, *BSD, Solaris, MacOS/X

Questions?

• unbound.net