

# UNBOUND

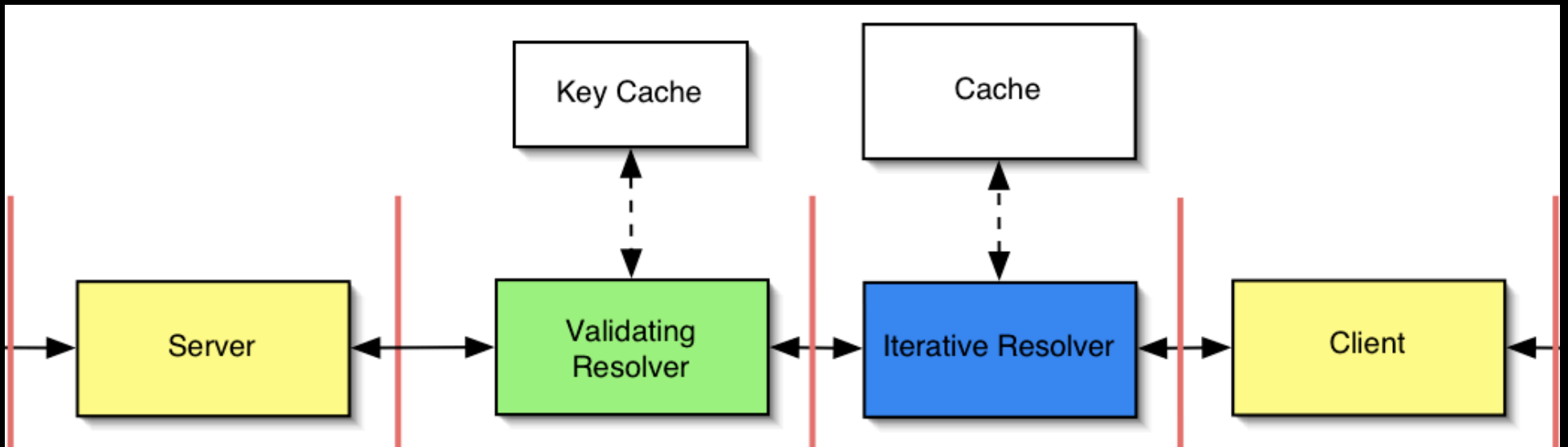
a validating caching resolver

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# 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 announced last month
- 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
  - stub zones

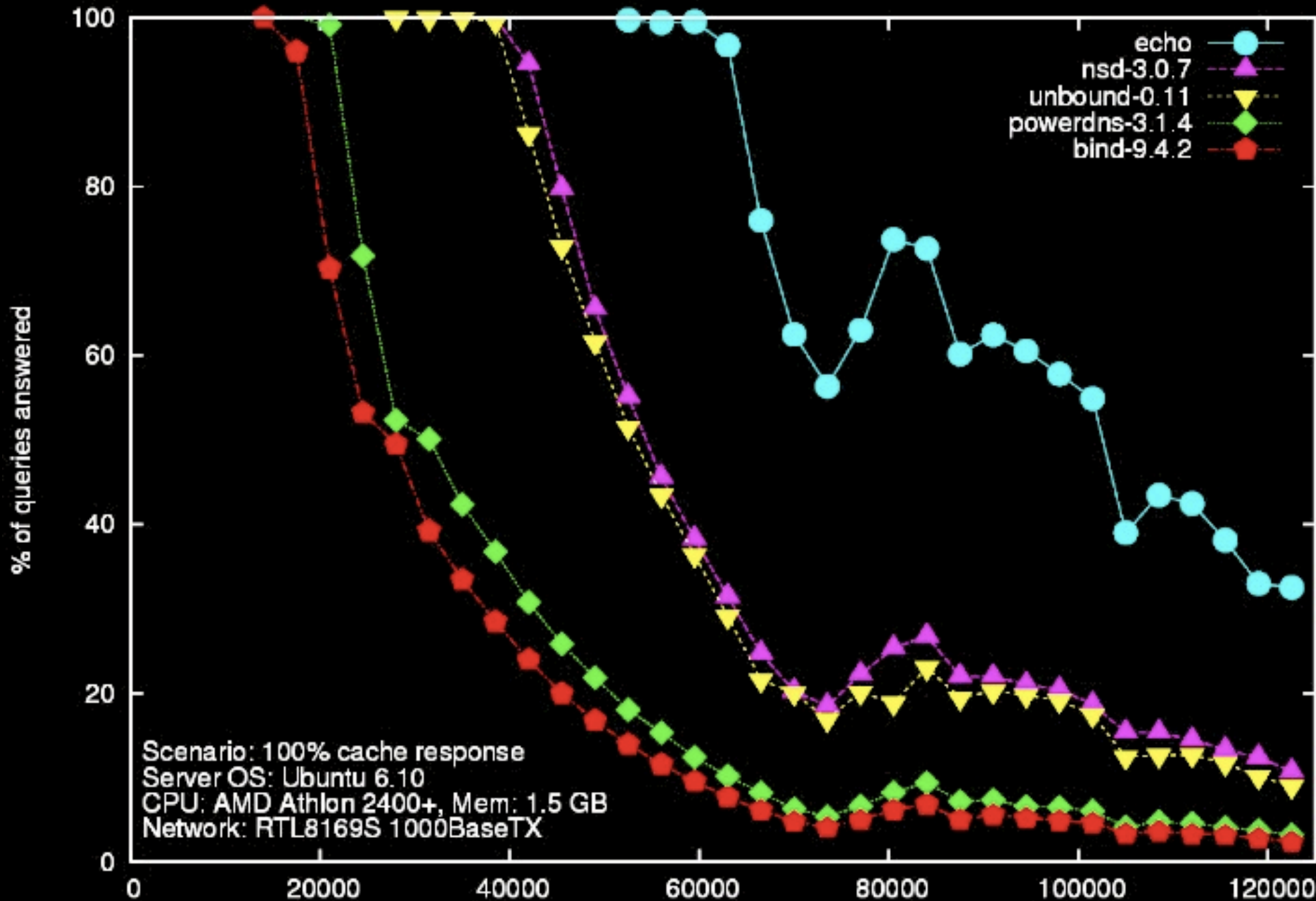


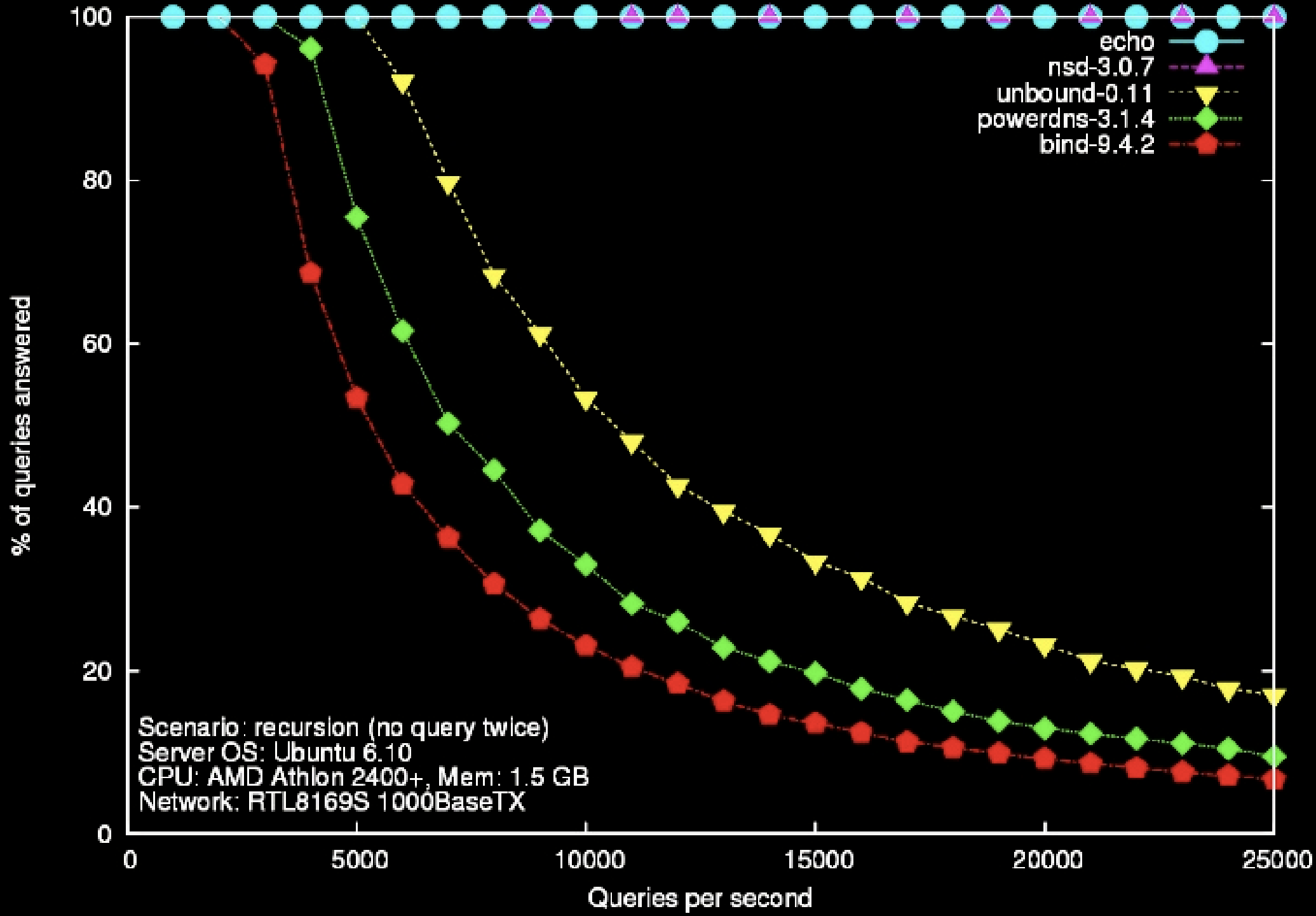
# Security

- 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





# Summary

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

# Questions?

- [unbound.net](http://unbound.net)