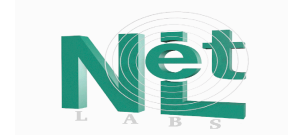


# nsd

## a Name Service Daemon

Alexis Yushin, Daniel Karrenberg,  
Olaf Kolkman, Ted Lindgreen

with  
Erik Rozendaal, Jaap Akkerhuis, Miek Gieben, ...



# Presentation Outline

Why nsd ?

What is nsd ?

Who should use nsd ?

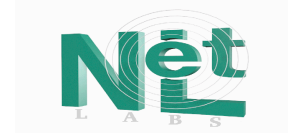


# Why nsd?



- **Code Diversity**

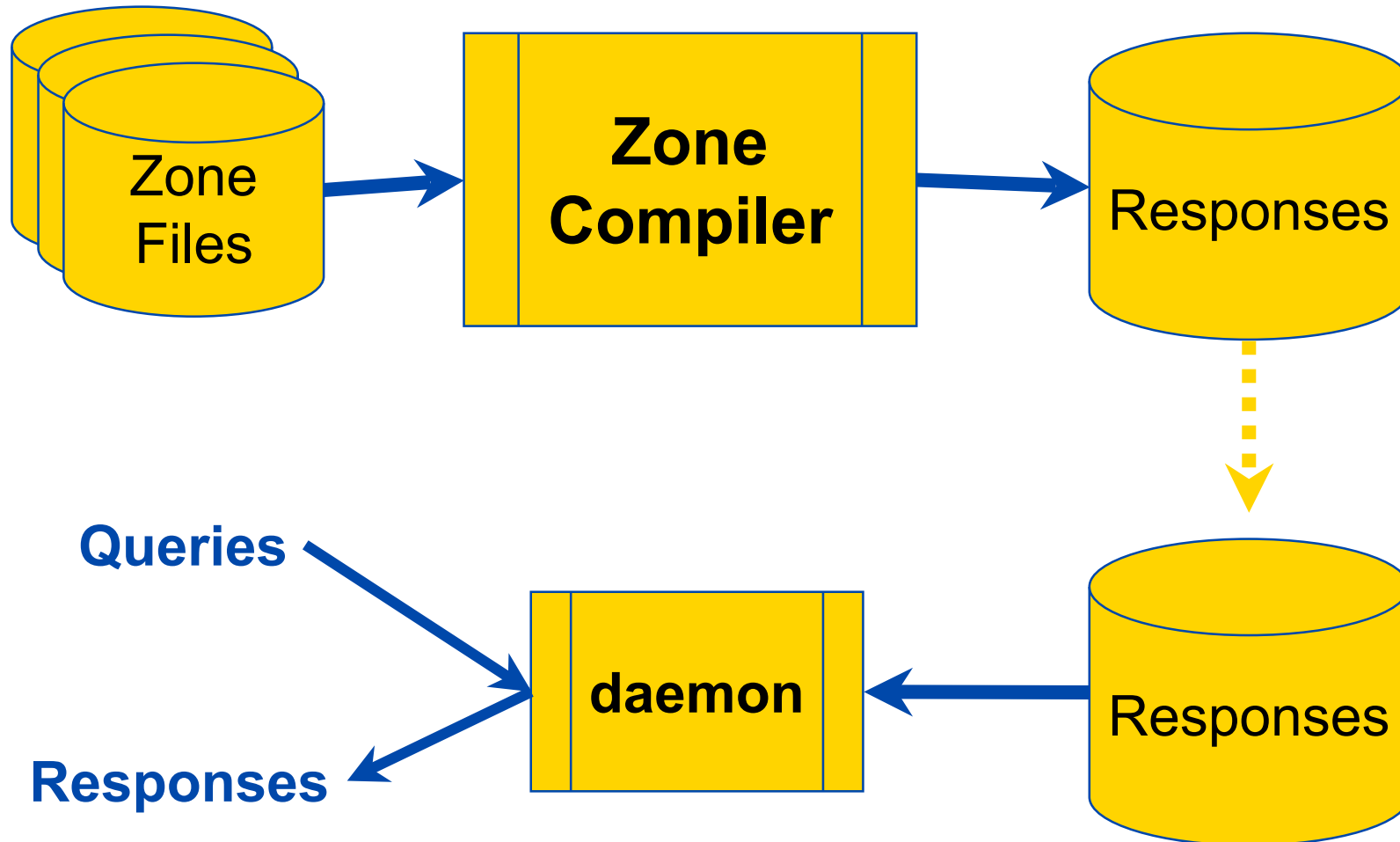
- Simplicity
- Performance
- Open Source



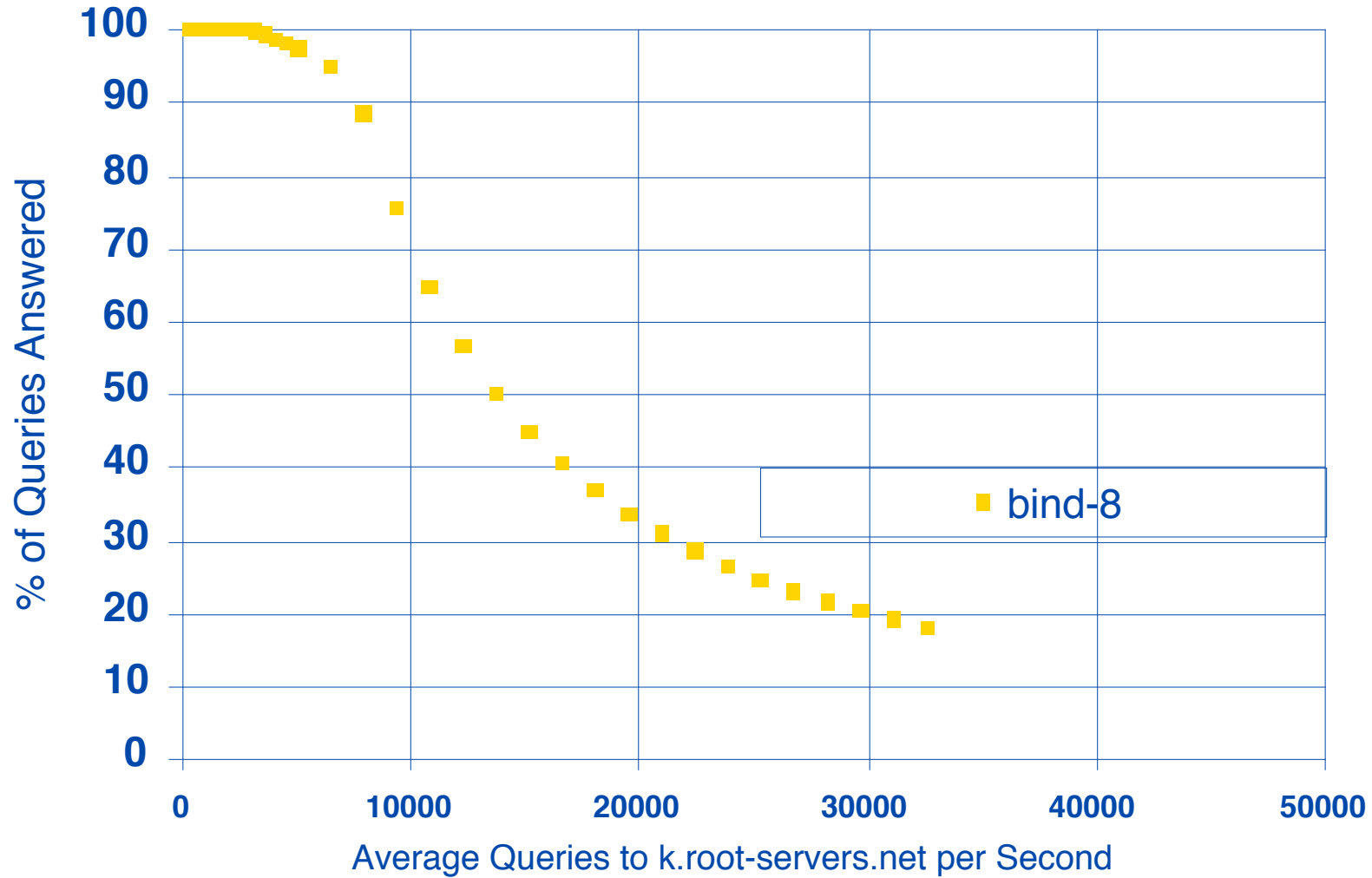
# What is nsd?

- Authoritative-Only DNS Name Server
  - **No recursion**
  - **No caching**
  - No dynamic update
- Implemented from Scratch
- High Performance Design
- DNSSec
- Well Tested

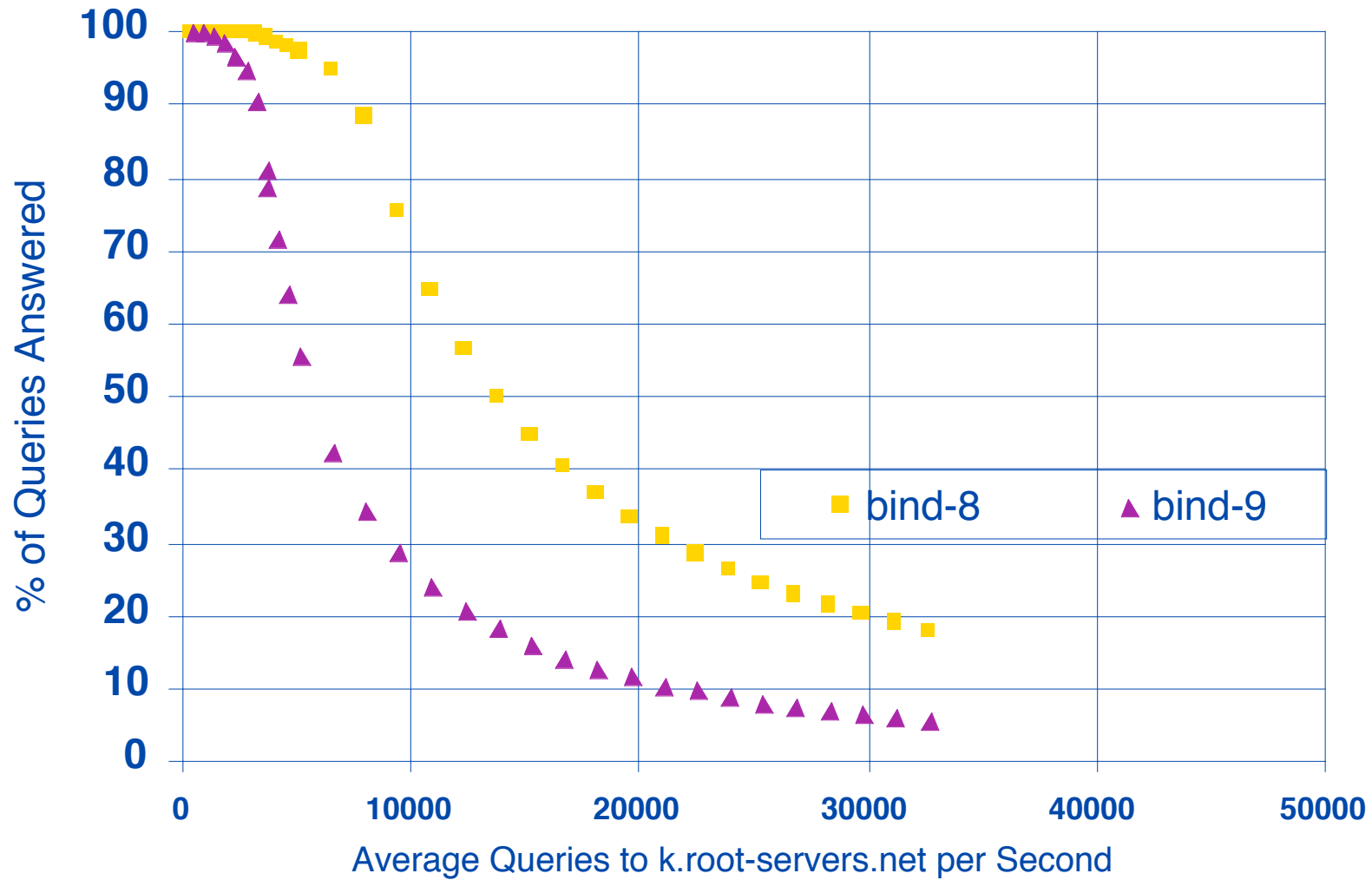
# Basic nsd Design



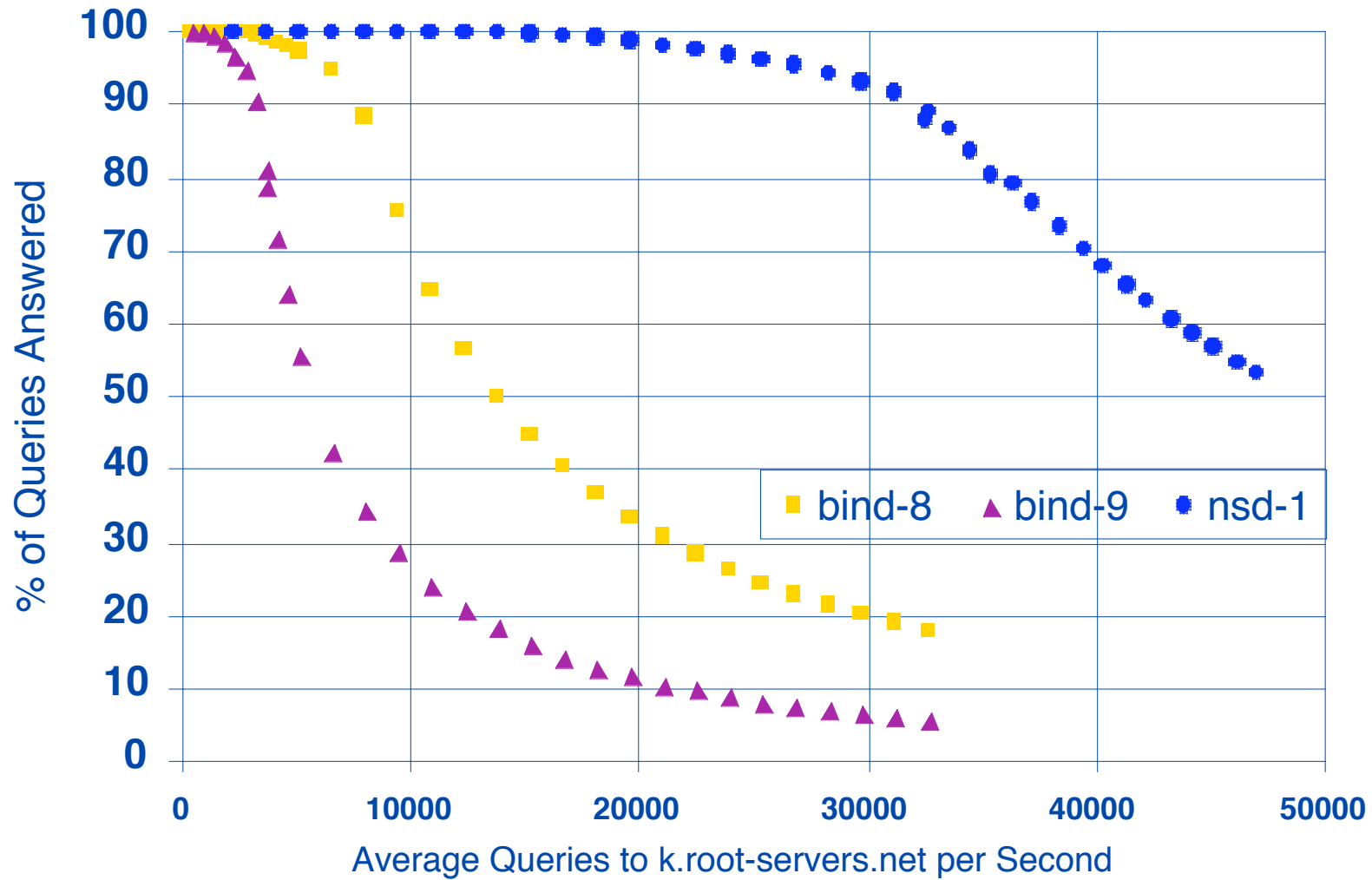
# Performance Results



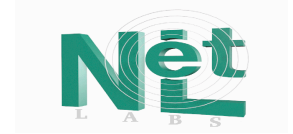
# Performance Results



# Performance Results

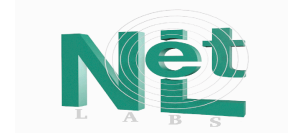






# Goals Achieved ?

- Code Diversity
  - Totally New Design
  - Bug Diversity
- Simplicity
  - Daemon kept as small as possible
  - No creeping featurism
- Performance
  - See above
- Open Source
  - Yes (BSD License)



# Who should use NSD?

- Publishers of authoritative zone info
  - Root Servers (some)
  - TLD servers
  - ...
- Who should ***not*** use nsd
  - Recursing name servers
  - Servers really needing dynamic updates
- Current version nsd 2.3.1



# Questions???

- [/http://www.nlnetlabs.nl/nsd/index.html](http://www.nlnetlabs.nl/nsd/index.html)

