

NLnet Labs

To develop Open Source
Software and Open
Standards for the benefit
of the Internet

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Labs

Known For



NSD

Unbound

Idns

Net::DNS

getdns
Unbound security

NSD

NSD

Authoritative
only

Secondary

Zone files

IXFR client

nsd-control, nsd.conf

DNSSEC (but no signing)

Biodiversity

High
Performance

Conform RFCs

Open source

BSD licensed

NSD

Typical Use Cases

As one or more of the secondaries

Provisioning system

Hidden Master

Behind load balancer

Balancer



NSD4

Dynamic behavior:
reconfiguration, adding and
removing zones on reload

nsd-control
replaces nsdc

Serving 100K zones

Faster than NSD3

XFR scalability, no
longer need to nsdc
patch

No changes in query logic

Patterns



Roadmap

Memory improvements
(no db mode)

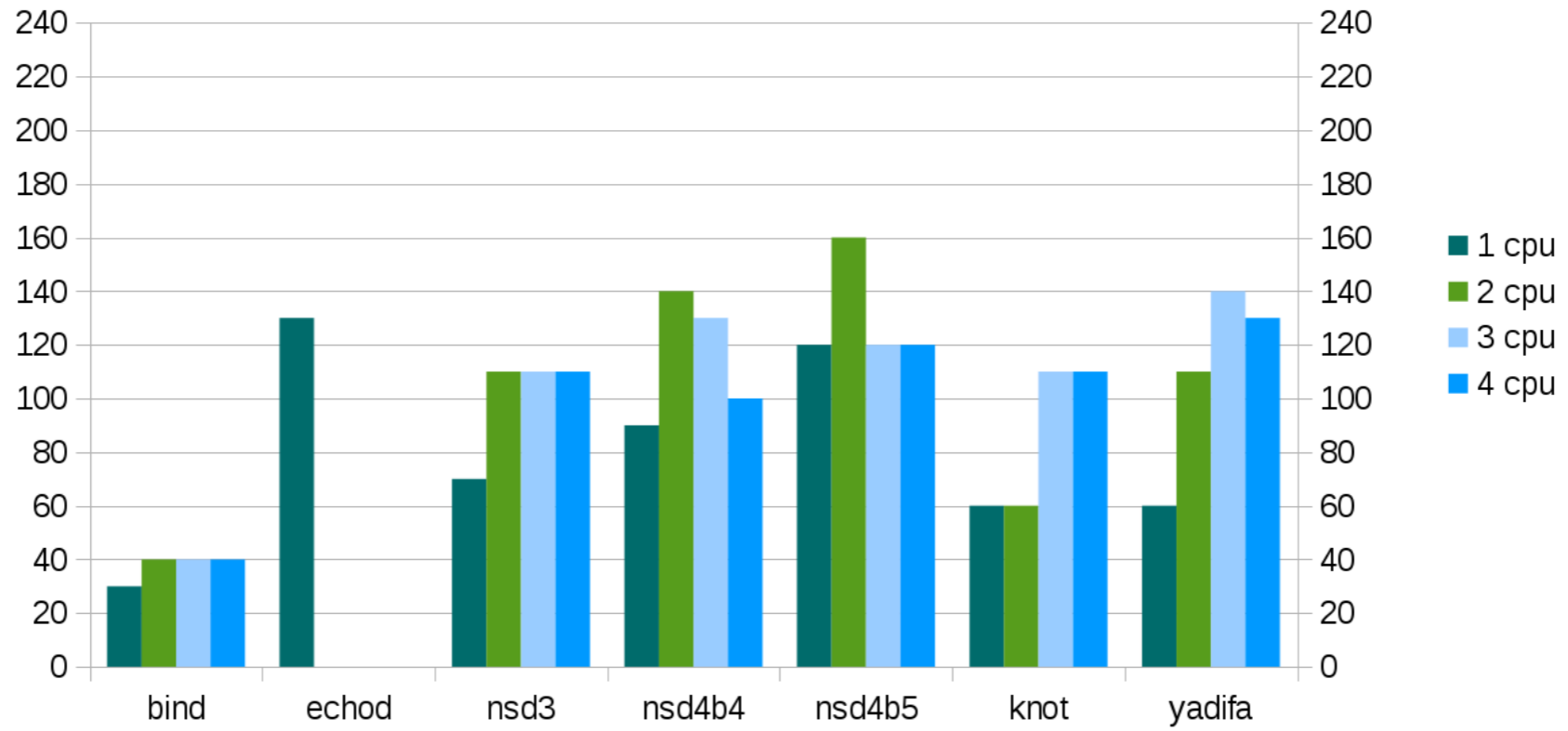
Zone read performance improvements

Zone statistics

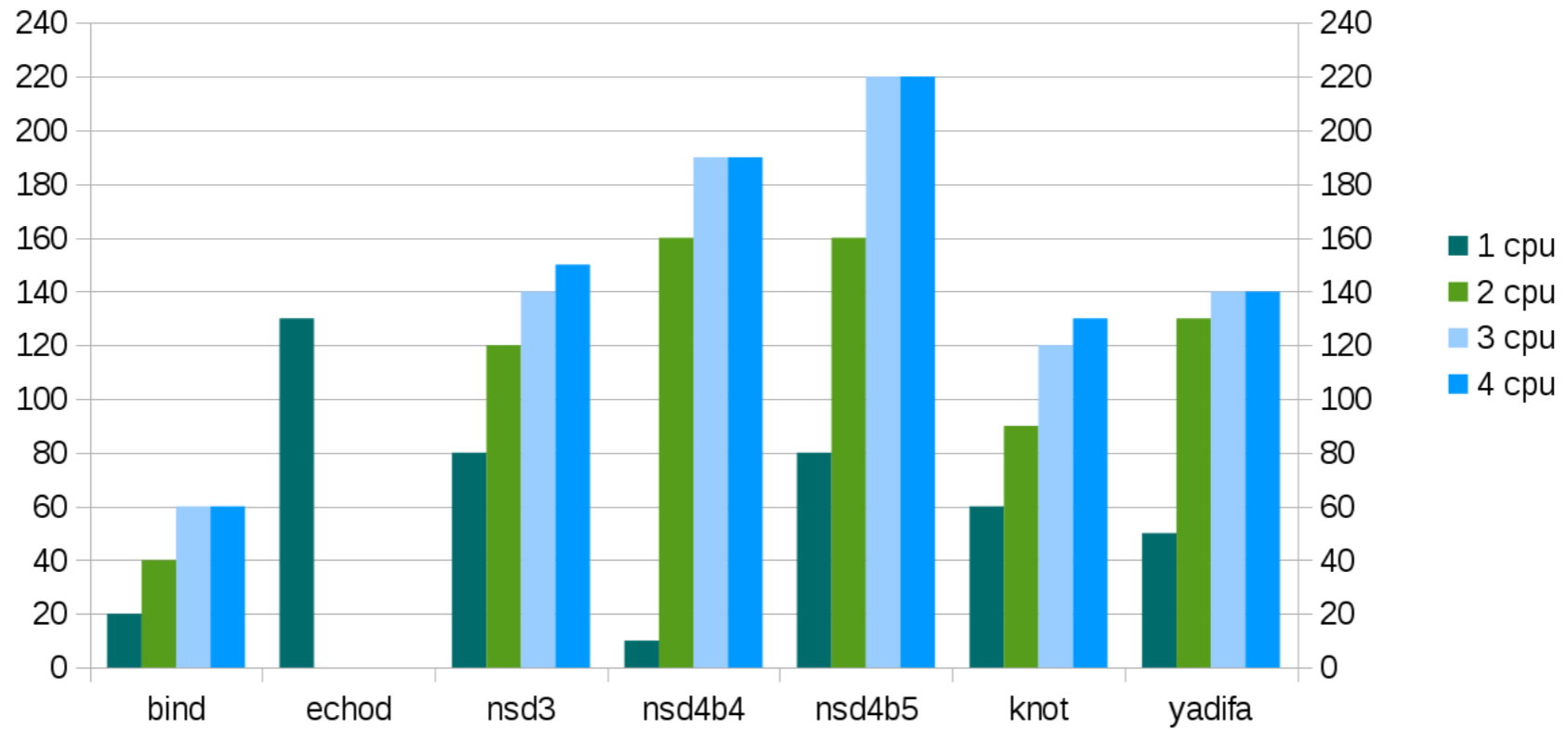


an artificial (test) root zone

Linux 3.9



freebsd 9.1







Only open-source comprehensive signing solution

PCKS#11 support

Open interfaces

BSD licensed

Requires HSM

Key and signing policies

Can be used with any name server

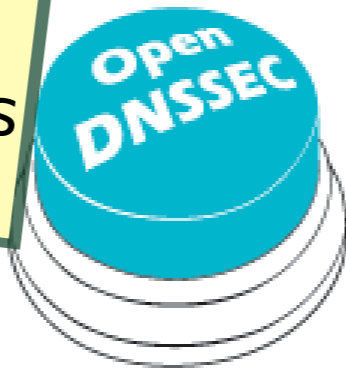
Works with zonefiles and XFR



XML

ods-ksmutil, ods-signer, ods-control

Typical Use Cases



Bump in the wire



Hidden Master

Provisioning system



Provisioning system



Hidden Master



Roadmap



DB adapters

Serving 100K zones

Improved interface

Dynamic Update

Algorithm rollover,
Policy rollover

PostgreSQL

Offline keys

NSD & NLnet Labs

Committed to announce 2 years in advance

Support to Community

nsd-users@nlnetlabs.nl

Free

NSD & OpenNetlabs

BSD License

allows for proprietary extensions

Paid Support

Support levels (SLA) and prices available on request