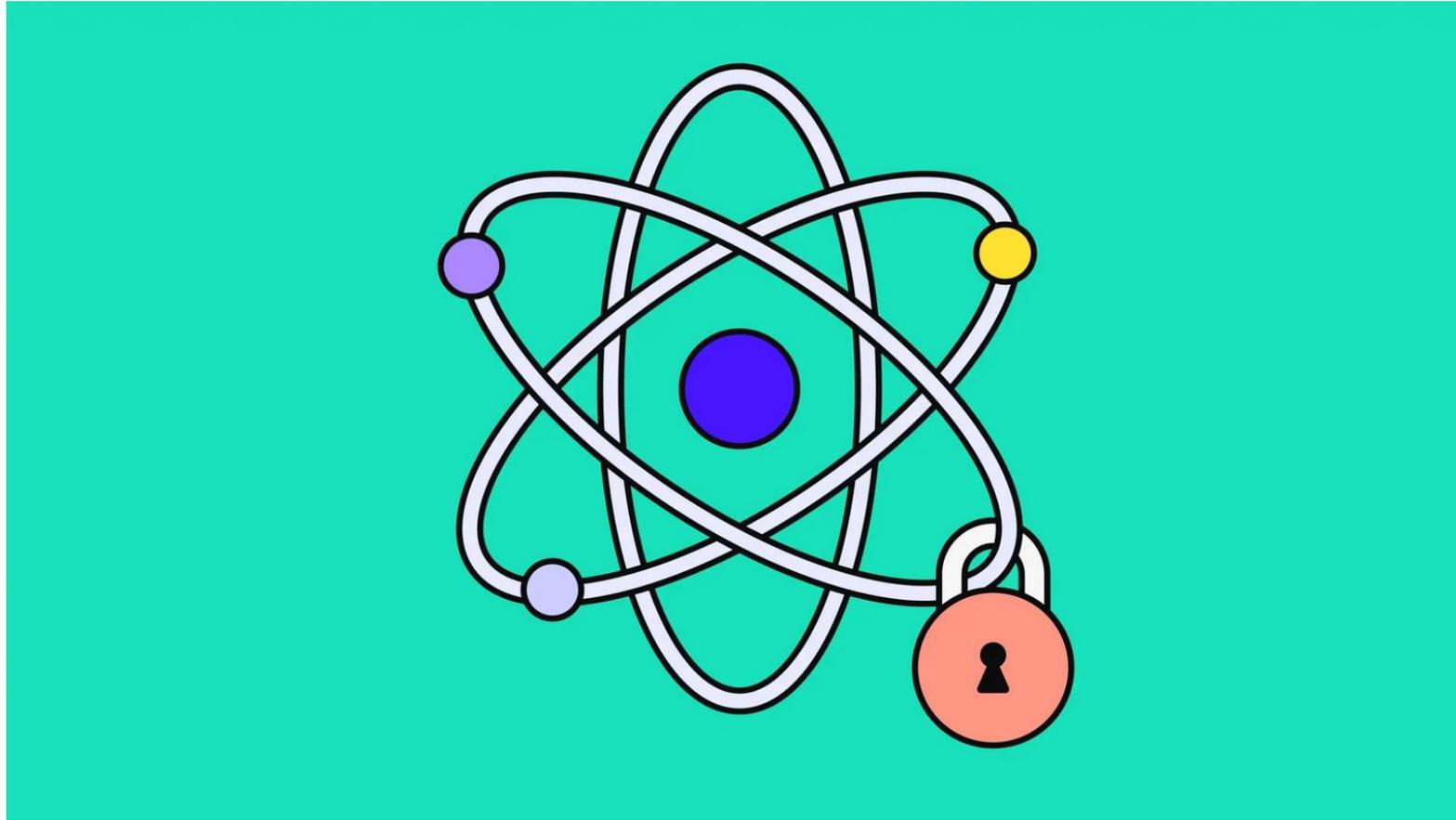


# Evaluation impact of more TCP on name servers

Eline Stehouwer

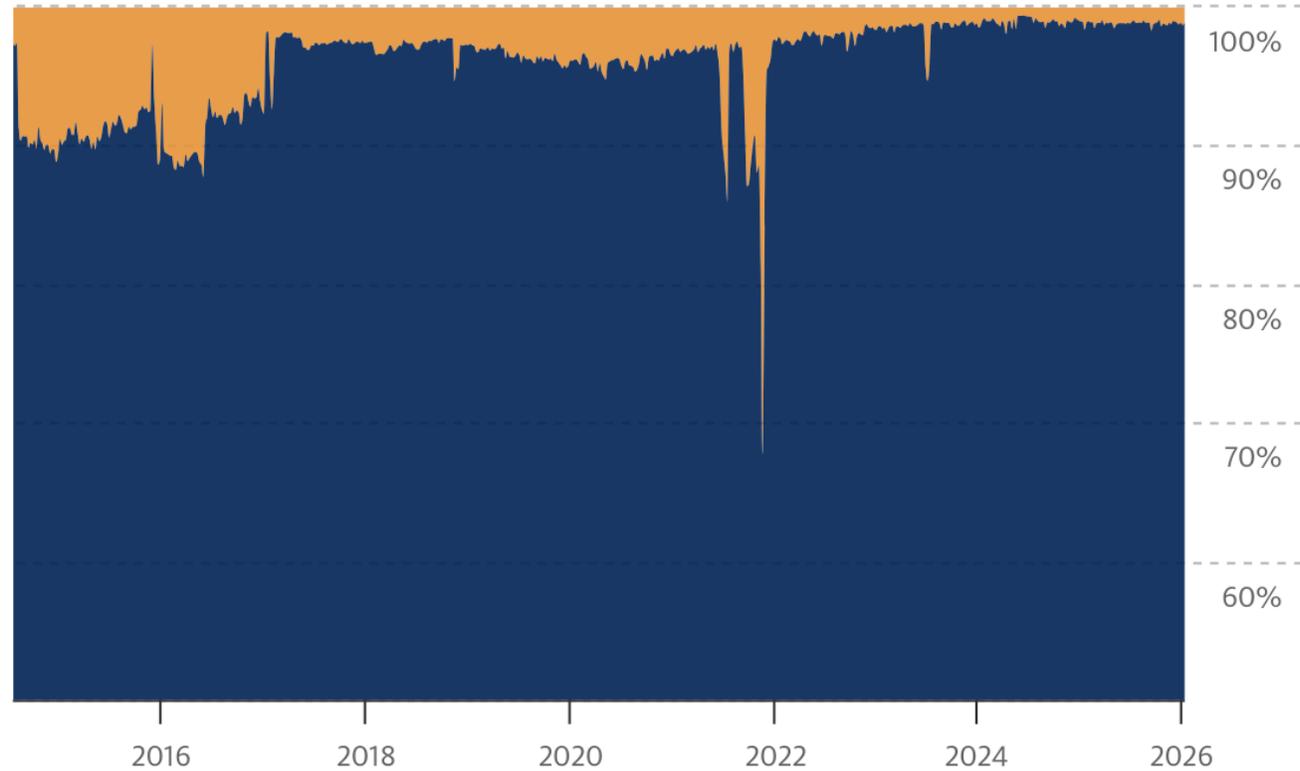


# DNSSEC and PQC



# TCP to .nl

## UDP and TCP traffic

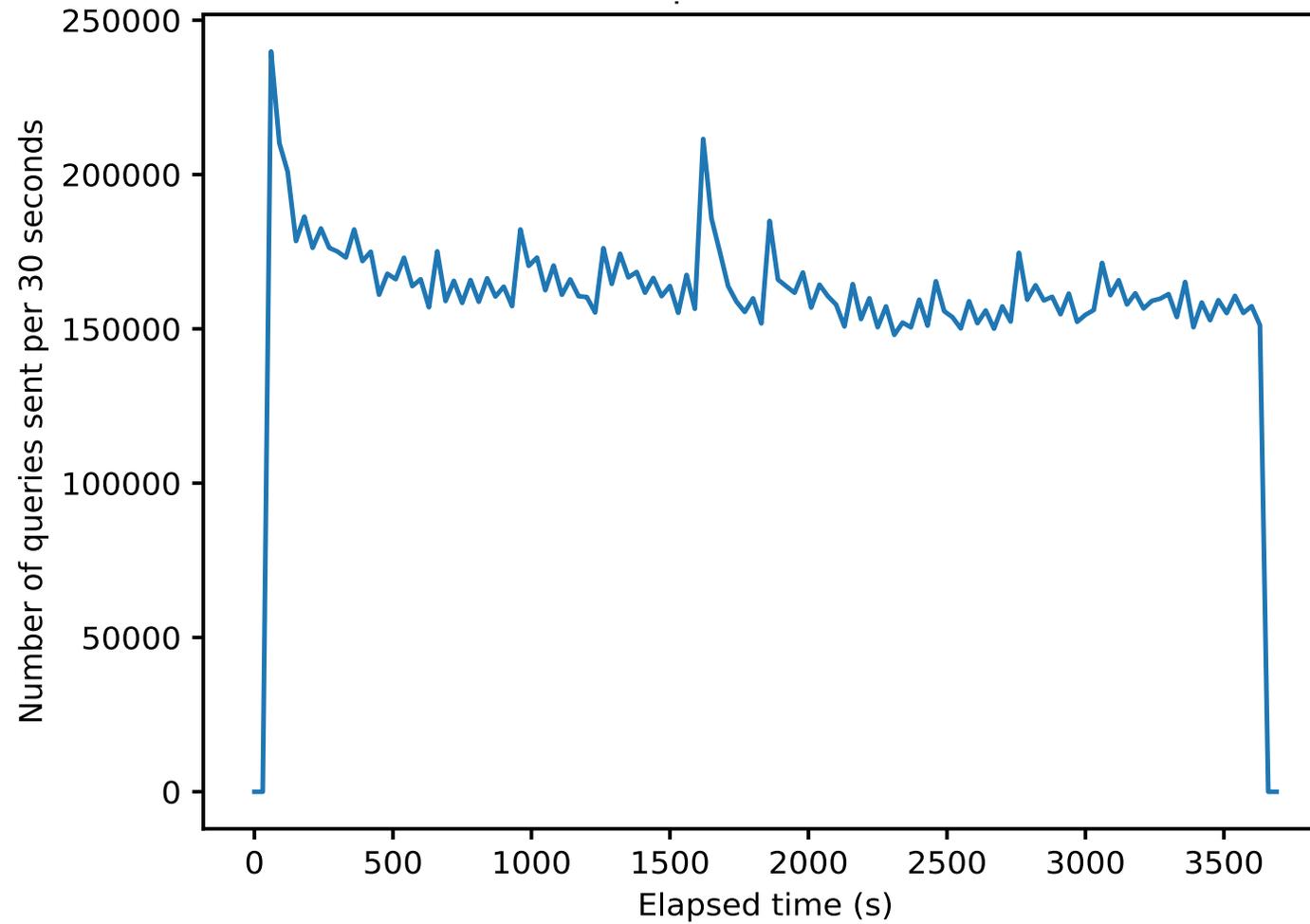


■ UDP  
■ TCP

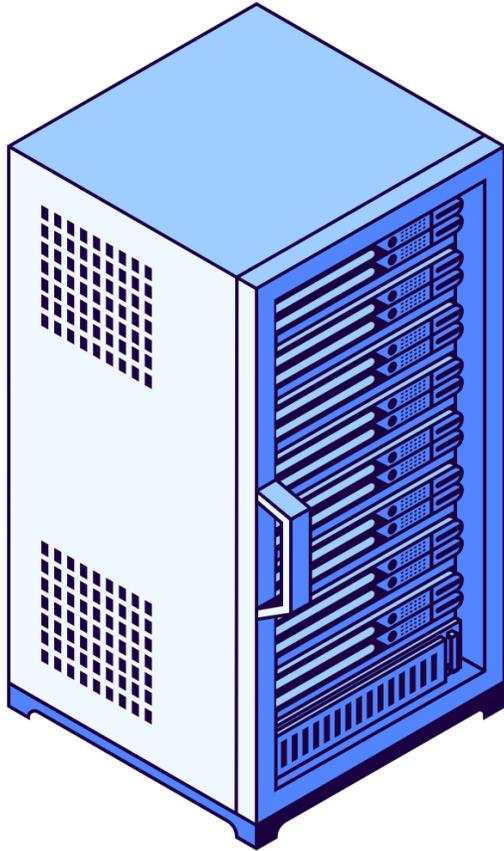
~1% TCP



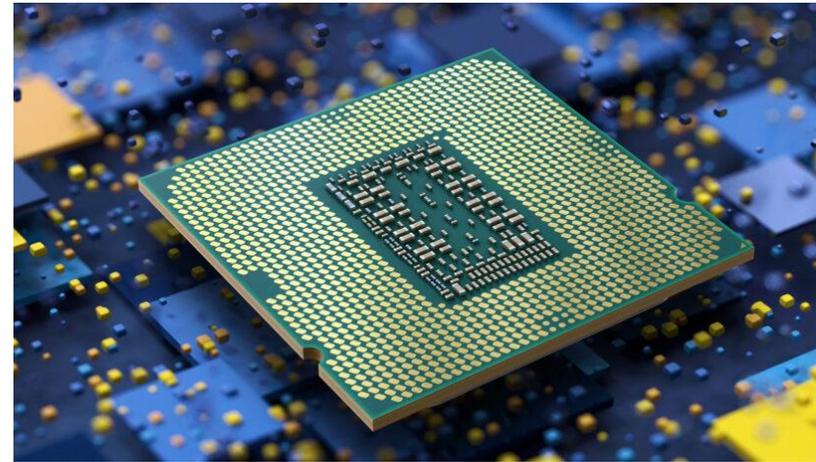
# Query data



# Test setup



Test server



CPU time

# DNS server software



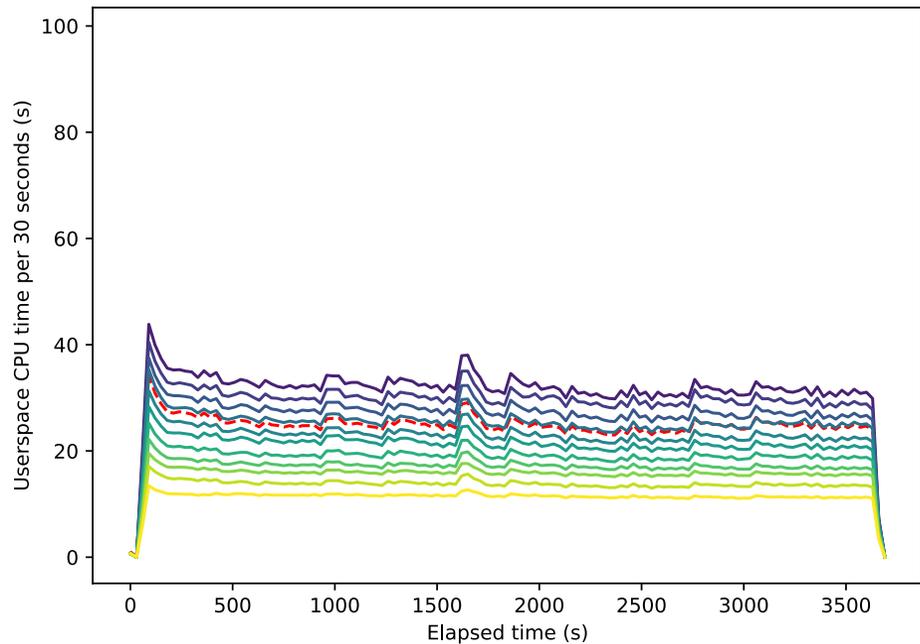
# Experiment: percentages of TCP retries



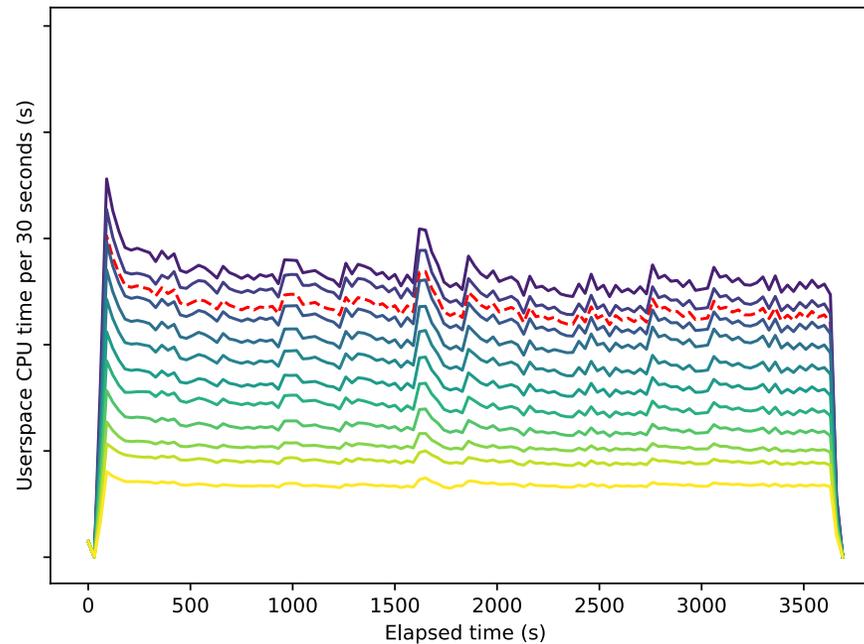
# Experiment: only TCP



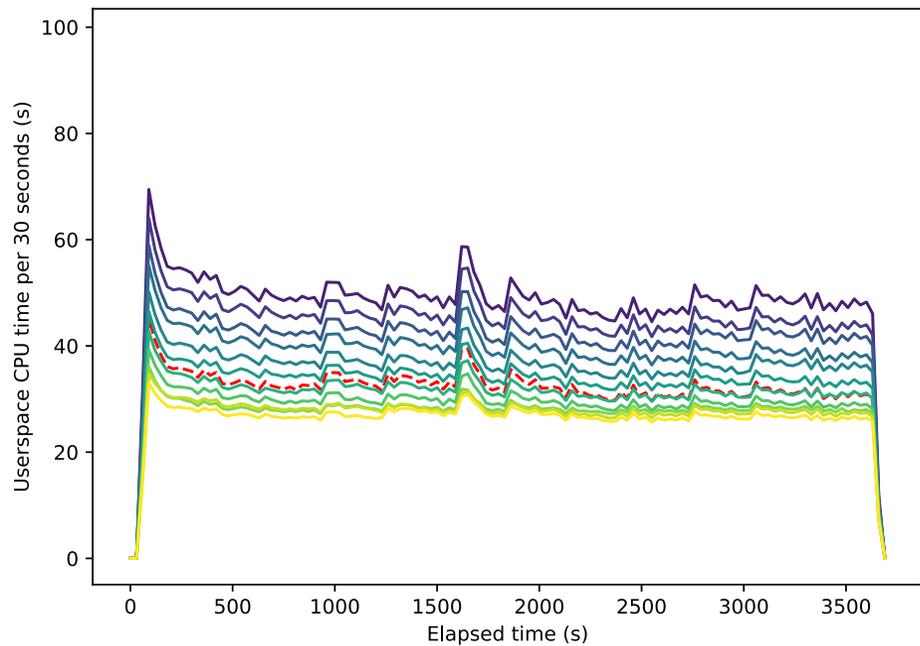
NSD



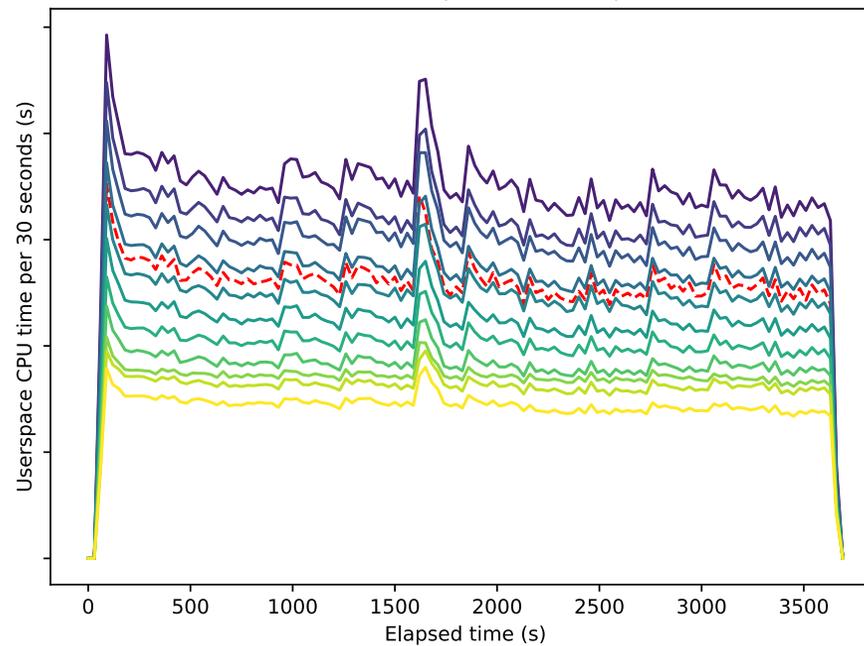
Knot



BIND



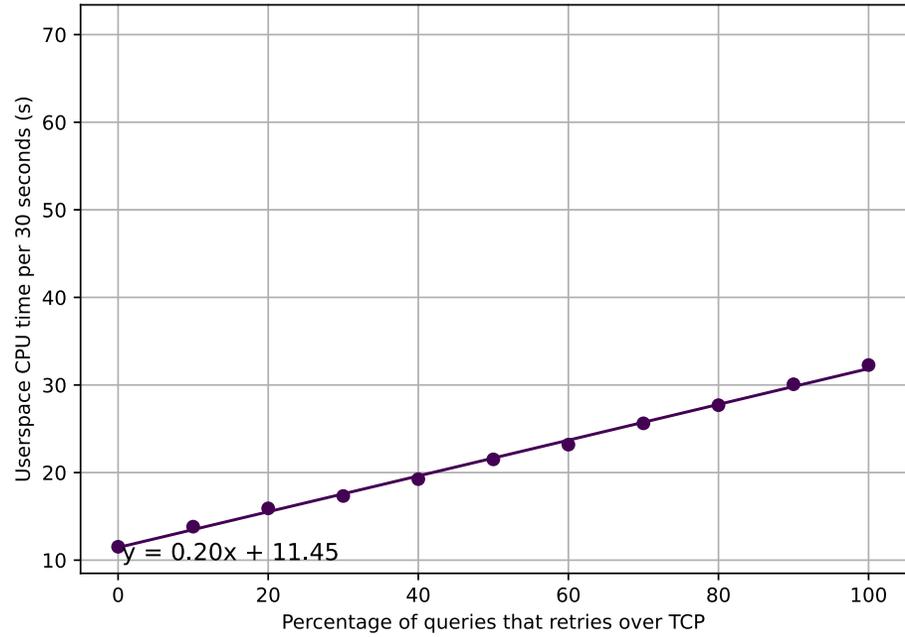
PowerDNS (in BIND mode)



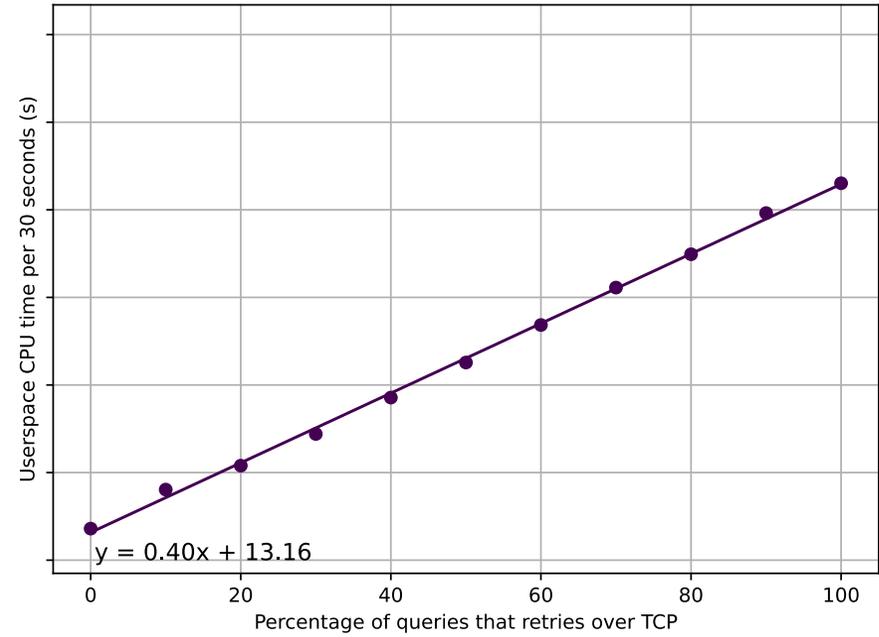
- Only TCP
- 100% TCP
- 90% TCP
- 80% TCP
- 70% TCP
- 60% TCP
- 50% TCP
- 40% TCP
- 30% TCP
- 20% TCP
- 10% TCP
- 0% TCP



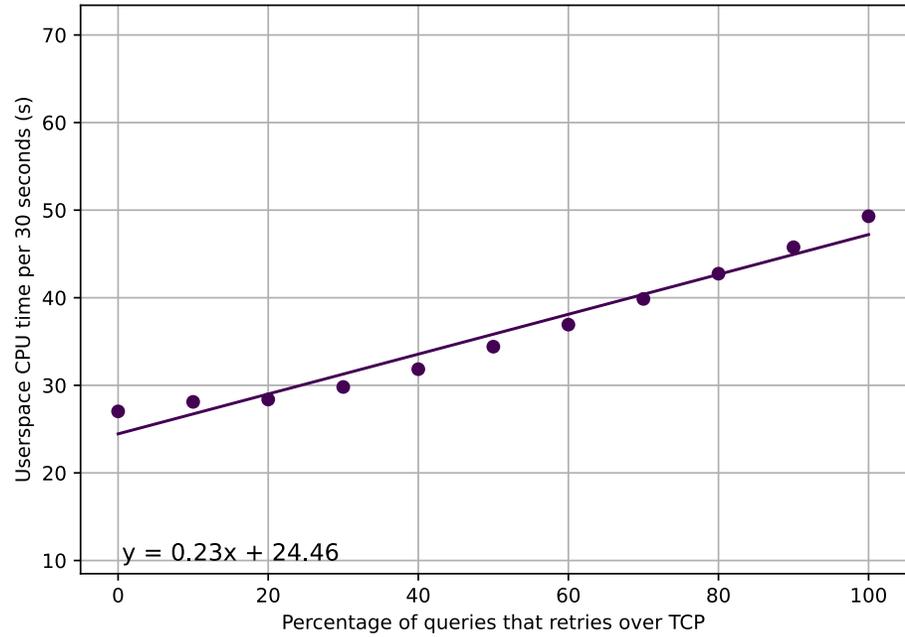
NSD



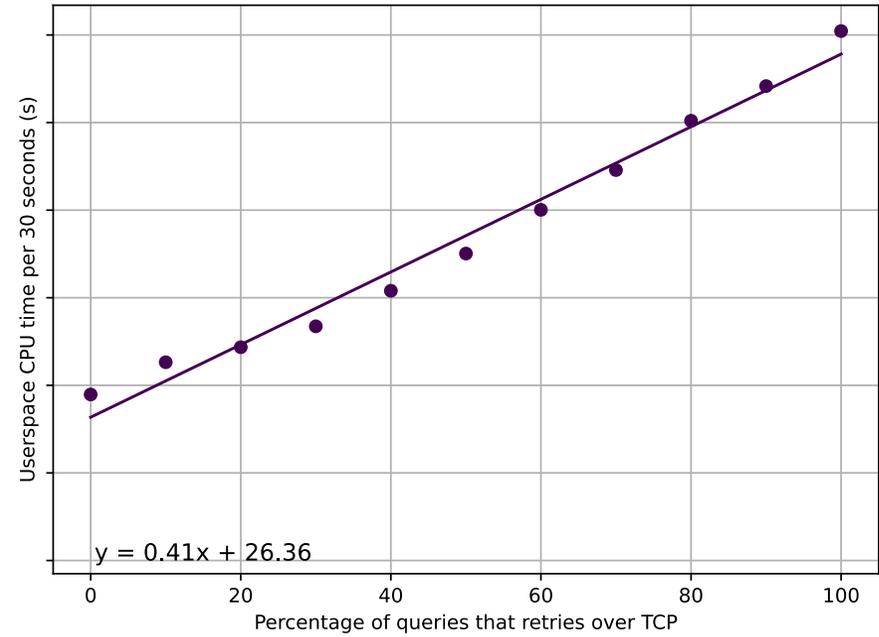
Knot



BIND



PowerDNS (in BIND mode)



# Conclusion

