



Fig1: CDF of DNS resolution time for Top 25 websites.

In the above graph, the percentages have been covered for three cases. In the first case, we ran the my\_digtool for Top 25 websites 10 times and took the average for each website. In the second case, we ran the dig command over the local server(130.245.255.4) and ran it for the Top 25 websites. Each website we ran it on 10 times and took the average score of it. In the third instance, we ran it against Google public DNS(8.8.8.4) and recorded the data.

From the graph, we can see that “my\_digtool” takes the most time to run a query for every website. This is because the local server and Google server have a cache that helps in restoring the repeated queries. For example. 'Qq.com' took 355msec while I ran the first the query time but the average over 10 attempts was only 88.6msec. The Query retrieves the value faster from the local cache and returns the response.

Another observation from the data is that the Chinese websites takes a lot of time compared to anyother websites. “Weibo.com” took 419msec for mydigtool, 32msec for localserver(nearly 10times compared to other websites), 128.7msec for Google Public dns.