

1.About the experiment:

I set the proxy cache to be local IP(10.0.0.25). And then run the Driver in two computers in the same LAN.(eg. 10.0.0.25 and 10.0.0.14)

My local computer will print out the timing of returning object from sibling cache, or from server, attached with sending request and parsing response 's process information.

Then I visited this website:<http://git-scm.com/book/ch2-5.html>

2.Process information(output) when I run Driver in two computers:

NewhandlePeerResponse:hashCode: 2129434590	NewProxyServer: hashCode: 2129434590
NewhandlePeerResponse: response unavailable in cache	NewProxyServer: send request to peer: /10.0.0.25
check proxy is working.	NewProxyServer: parsing response from peer: /10.0.0.25
	NewProxyServer: finished parsing response from peer: /10.0.0.25
	time to return an object from a sibling cache is 0.018
	NewProxyServer: send request to server
	NewProxyServer: read response from server
	time to return an object from a server is 0.476

3.Data for timing of object returning from local cache, peer cache or server:

ProxyServer: 10.0.0.25(local ip) port:5678

HashCode	Time of Peer Cache	Time of Server
2129434590	0.11	0.522
2020534288	0.013	0.29
-1521233627	0.013	0.277
1894986326	0.021	0.264
-772096374	0.012	0.267
1039732901	0.017	0.265
1766783239	0.032	0.535

-70543908	0.01	0.953
218333634	0.012	0.313
-2059210823	0.012	0.281
-70543908	0.021	1.685
1192926733	0.009	0.283
694735169	0.012	0.336

Average Time of returning object from peer cache: 0.0208s

Average Time of returning object from server: 0.5006 s

So we can save a lot of time(and as well bandwidth) to use peer cache instead of fetching from source.