

Test of Compressed WFS Performance (Data from Oklahoma Conservation Commission)

Times were recorded for downloading GML data from a Geoserver Web Feature Service via the Internet using Firefox 3.6.13. Zipped HTTP was enabled and disabled in Firefox and the performance compared.

Bandwidth from the client to the local Internet was about 8.6 Mbps.

Bandwidth to Fort Worth (near Oklahoma) was about 3.3 Mbps.

[both measured using <http://www.speedtest.net/>]

The 5 links used for testing were like so ..

[http://ogi.state.ok.us/geoserver/wfs?](http://ogi.state.ok.us/geoserver/wfs?service=WFS&version=1.0.0&request=GetFeature&typeName=ogi: </layer>)

[service=WFS&version=1.0.0&request=GetFeature&typeName=ogi: </layer>](http://ogi.state.ok.us/geoserver/wfs?service=WFS&version=1.0.0&request=GetFeature&typeName=ogi: </layer>)

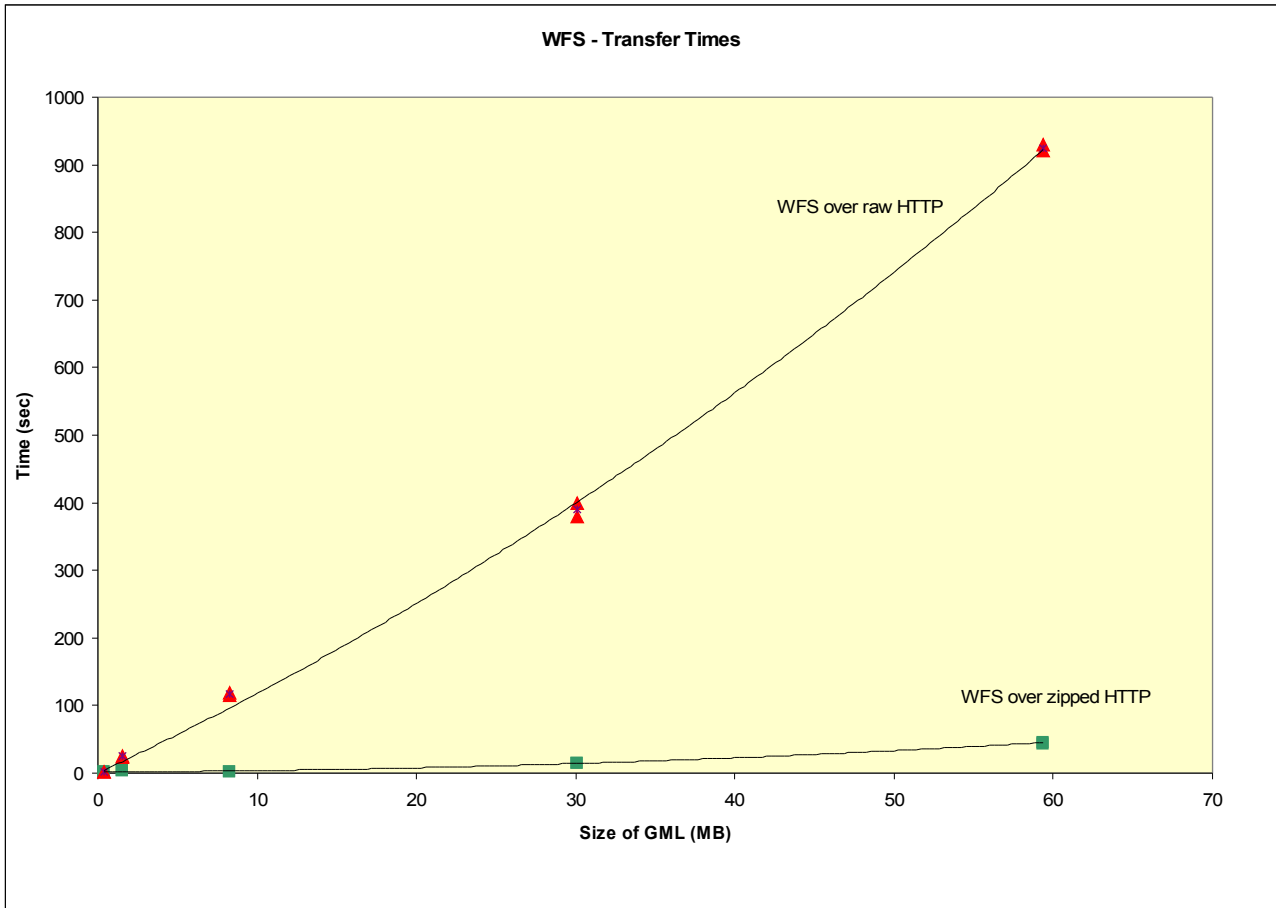
Each link was right-clicked, and 'Save link as ..' chosen so that the GML file would just be downloaded and saved to a file. At the end of each download the size of the file was checked to ensure that all the layer was downloaded.

Initially zipped HTTP was enabled, and the tests run from smallest to largest layer. Then zipped HTTP was disabled, and the tests run from largest to smallest layer – to reduce the time gap between tests of the larger layers. For the 2 largest layers, when using uncompressed HTTP, the time was measured only until a tenth of the transfer was complete and the time multiplied by 10, so as not to impact the service adversely. Each download was repeated.

Results

Layer	Zipped HTTP Times (sec)		Raw HTTP Times (sec)		Points	Size of GML (MB)
	1	2	1	2		
schoold_centroids	1	1	1	1	526	0.36
twprng_centroids	4	4	25	24	2373	1.52
doq_centroids	1	1	119	116	5048	8.26
blm_sections_centroids	15	15	380	400	35194	30.09
sections_centroids	43	45	930	920	71343	59.39

Graph



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