

A Comparison of Performance and Scalability between WordPress versions 3.5.1 and 3.7.1

Location	Page	Browser	Load Time	TTFB	Bytes In	Requests	Time To Start Render	Load Time Distance from Avg	Include?
Dulles	Features	Chrome	903	119	162586	24	549	223.48	TRUE
Dulles	Features	Chrome	762	118	162587	27	473	364.48	TRUE
Dulles	Features	Chrome	1160	132	162587	25	796	33.52	TRUE
Dulles	Features	Chrome	1229	176	162587	25	771	102.52	TRUE
Dulles	Features	Chrome	849	134	167457	27	558	277.48	TRUE
Dulles	Features	Chrome	842	165	162587	26	548	284.48	TRUE
Dulles	Features	Chrome	959	128	162587	26	495	167.48	TRUE
Dulles	Features	Chrome	798	118	162586	25	513	328.48	TRUE
Dulles	Features	Chrome	812	115	162587	26	468	314.48	TRUE
Dulles	Features	Chrome	1492	265	162586	25	973	365.52	TRUE
Dulles	Features	Chrome	1052	134	162587	25	615	74.48	TRUE
Dulles	Home	Chrome	1154	129	250434	30	529	27.52	TRUE
Dulles	Home	Chrome	1173	332	250435	30	755	46.52	TRUE
Dulles	Home	Chrome	1054	134	250435	35	459	72.48	TRUE
Dulles	Home	Chrome	825	115	250435	32	577	301.48	TRUE
Dulles	Home	Chrome	937	129	250435	30	525	189.48	TRUE
Dulles	Home	Chrome	969	127	250435	31	550	157.48	TRUE
Dulles	Home	Chrome	1095	126	250435	30	727	31.48	TRUE
Dulles	Home	Chrome	1116	382	250435	33	794	10.48	TRUE
Dulles	Home	Chrome	1237	146	250435	31	725	110.52	TRUE
Dulles	Home	Chrome	727	100	251453	38	390	399.48	TRUE
Dulles	Home	Chrome	1197	125	250435	31	800	70.52	TRUE
Dulles	Pricing	Chrome	989	136	199202	31	578	137.48	TRUE
Dulles	Pricing	Chrome	1367	206	199202	29	788	240.52	TRUE
Dulles	Pricing	Chrome	1268	129	204072	33	764	141.52	TRUE
Dulles	Pricing	Chrome	1377	175	199201	29	964	250.52	TRUE
Dulles	Pricing	Chrome	1513	140	199202	30	1056	386.52	TRUE
Dulles	Pricing	Chrome	1439	297	204072	30	904	312.52	TRUE
Dulles	Pricing	Chrome	1103	134	204072	32	526	23.48	TRUE
Dulles	Pricing	Chrome	1315	124	199201	29	830	188.52	TRUE
Dulles	Pricing	Chrome	1324	136	199202	30	882	197.52	TRUE
Dulles	Pricing	Chrome	1298	175	204072	30	848	171.52	TRUE
Averages			1104.22	159.41	205019.50	29.22	679.06	187.62	
Comparison format			1.10	0.16	200	29	0.68	0.19	
			seconds	seconds	kilobytes		seconds	seconds	

Outliers

Dulles	Pricing	Chrome	1839	144	199201	30	1365	712.52	FALSE
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Location	Page	Browser	Load Time	TTFB	Bytes In	Requests	Time To Start Render	Load Time Distance from Avg	Include?
Dulles	Features	Chrome	1202	264	167215	29	667	11.09	TRUE
Dulles	Features	Chrome	1168	213	165731	28	658	45.09	TRUE
Dulles	Features	Chrome	1288	209	167214	30	655	74.91	TRUE
Dulles	Features	Chrome	1013	127	166770	29	511	200.09	TRUE
Dulles	Features	Chrome	1011	366	165732	30	688	202.09	TRUE
Dulles	Features	Chrome	1432	168	165731	26	701	218.91	TRUE
Dulles	Features	Chrome	1473	288	165732	26	765	259.91	TRUE
Dulles	Features	Chrome	943	200	166769	28	494	270.09	TRUE
Dulles	Features	Chrome	764	118	166769	28	408	449.09	TRUE
Dulles	Features	Chrome	706	142	165732	28	491	507.09	TRUE
Dulles	Home	Chrome	1229	230	281069	38	544	15.91	TRUE
Dulles	Home	Chrome	1260	303	279609	39	721	46.91	TRUE
Dulles	Home	Chrome	1298	185	281073	39	590	84.91	TRUE
Dulles	Home	Chrome	1126	153	280628	35	535	87.09	TRUE
Dulles	Home	Chrome	1102	194	279610	36	524	111.09	TRUE
Dulles	Home	Chrome	1050	145	279610	38	539	163.09	TRUE
Dulles	Home	Chrome	1049	172	280628	36	550	164.09	TRUE
Dulles	Home	Chrome	1014	136	280627	38	421	199.09	TRUE
Dulles	Home	Chrome	960	122	281032	35	476	253.09	TRUE
Dulles	Home	Chrome	1473	202	281073	34	643	259.91	TRUE
Dulles	Home	Chrome	833	141	279610	45	485	380.09	TRUE
Dulles	Pricing	Chrome	1313	157	202398	33	640	99.91	TRUE
Dulles	Pricing	Chrome	1089	147	202398	31	541	124.09	TRUE
Dulles	Pricing	Chrome	1086	132	202398	35	555	127.09	TRUE
Dulles	Pricing	Chrome	1071	232	202398	35	575	142.09	TRUE
Dulles	Pricing	Chrome	1045	144	202398	36	519	168.09	TRUE
Dulles	Pricing	Chrome	1032	131	202398	32	474	181.09	TRUE
Dulles	Pricing	Chrome	1490	259	203880	35	669	276.91	TRUE
Dulles	Pricing	Chrome	1566	344	203436	36	831	352.91	TRUE
Dulles	Pricing	Chrome	811	126	203436	42	476	402.09	TRUE
Dulles	Pricing	Chrome	750	145	202397	37	440	463.09	TRUE
Averages			1117.65	190.16	218564.55	33.77	573.74	204.55	
Comparison format			1.12	0.19	213	34	0.57	0.20	
			seconds	seconds	kilobytes		seconds	seconds	
Outliers									
Dulles	Features	Chrome	2779	104	165731	30	2370	1565.91	FALSE
Dulles	Pricing	Chrome	2606	344	203880	37	839	1392.91	FALSE

Comparing Performance Tests

WP Version	Location	Pages	Browser	Load Time (s)	TTFB (s)	Bytes In (KB)	Requests	Time To Start Render (s)
3.7.1	Dulles	3	Chrome	1.12	0.19	213	34	0.57
3.5.1	Dulles	3	Chrome	1.10	0.16	200	29	0.68
Difference	same	same	same	-1.22%	-19.29%	-6.61%	-15.59%	15.51%

Conclusion There appears to be no significant change in performance between these versions. The new version is a tiny fraction of a second slower for page load time, and the time to start render is actually faster.

Comparing Load Tests

3.7.1	Response (average)	Errors	Requests	RPS (average)	RPS (peak)	Throughput (average)	Throughput (peak)	Total Transfer
HTML	1.433	1	42991	34	52	610 kB/s	936 kB/s	751 MB
Other *	0.677	28	386922	307	470	5,364 kB/s	8,144 kB/s	6 GB
Total	0.752	29	429913	341	522	5,975 kB/s	9,080 kB/s	7 GB

3.5.1	Response (average)	Errors	Requests	RPS (average)	RPS (peak)	Throughput (average)	Throughput (peak)	Total Transfer
HTML	0.96	0	45579	36	57	617 kB/s	980 kB/s	759 MB
Other *	0.566	1	363241	288	451	5,294 kB/s	8,276 kB/s	6 GB
Total	0.61	1	408820	324	507	5,910 kB/s	9,226 kB/s	7 GB

Comparison	Response (average)	Errors	Requests	RPS (average)	RPS (peak)	Throughput (average)	Throughput (peak)	Total Transfer
HTML	0.473	1	-2588	-2	-5	-7	-44	-8
Other *	0.111	27	23681	19	19	70	-132	0
Total	0.142	28	21093	17	15	65	-146	0
Total % Change	23.28%	2800.00%	5.16%	5.25%	2.96%	1.10%	-1.58%	-0.12%
Difference	slower	more	more	more	more	more	less	less

Conclusion The change in scalability between these versions borders on significant. The new version is about a half of a second slower for the HTML results, but overall better results for non-HTML requests.