

Appendix to
“Load-Time Reduction Techniques for
Device-Agnostic Web Sites”

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1. Detailed Evaluation Results

This appendix contains more detailed results from the tests we have reported in our paper *Load-Time Reduction Techniques for Device-Agnostic Web Sites*, published in the Journal of Web Engineering. For completeness, we include *all* the tables here, even the ones that were already presented in the main text.

For each test, the tables present the median load times (*Med.*) and the median numbers of HTTP requests (*Req.*), HTTP connections (*Conn.*), and K bytes downloaded (*Byt.*). We also present the standard deviations of the load times (*St.d*) and the relative changes of median load time (*Cha.*) for each page variant compared to its reference page (see Table 2). Finally, the tables also show the numbers of valid results (or test runs) for each test (*n*).

1.1. HTTP/1.1 with compression, but no encryption

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	2692	533	1.00	0.00		56	6.0	762	110
SHA2	2575	686	0.96	0.01		57	13.0	763	103
SHA3	2586	730	0.96	0.06		57	16.0	763	100
SHA10	4395	1018	1.63	1.94		56	18.0	715	103
CDN	3348	603	1.24	1.21		56	6.0	768	97
CDN2	3014	680	1.12	0.55		57	13.0	768	104
CDN3	3106	1165	1.15	0.65		57	17.0	768	116
CDN10	3168	1001	1.18	0.78		57	19.0	768	109
TRREF	2381	1308	1.00	0.00		56	6.0	813	90
MIN	2736	638	1.15	0.08		56	6.0	749	104
CAT	2602	814	1.09	-0.07		41	6.0	800	100
MINCAT	2168	512	0.91	-0.35	0.001	41	6.0	735	90
UGREF	2591	558	1.00	0.00		61	6.0	746	103
SPRITE	2206	809	0.85	-0.36	0.001	49	6.0	712	90
SYMFO	3148	880	1.21	0.59		48	6.0	708	105
RIREF	3047	694	1.00	0.00		55	6.0	865	142
H5PIC	2706	716	0.89	-0.12		55	6.0	865	102
PIC	2670	626	0.88	-0.12		56	6.0	867	98
AI	2615	663	0.86	-0.17		56	6.0	865	102
AIGEN	2895	977	0.95	0.11		56	6.0	865	115
FCCT	3018	1794	0.99	0.41		81	6.0	945	93
ECCT	2609	782	0.86	-0.13		55	6.0	866	88
LZYRIR	1969	485	0.65	-1.27	0.001	38	6.0	604	82
LZYH5	2215	718	0.73	-0.93	0.001	38	6.0	604	92
LZYPIC	2306	543	0.76	-0.93	0.001	39	6.0	606	104
LZYAI	2588	609	0.85	-0.67	0.001	39	6.0	604	114
LZYAIG	2054	598	0.67	-1.02	0.001	39	6.0	604	98
LZYFC	2294	2110	0.75	-0.20	0.001	44	6.0	592	81
LZYEC	2069	550	0.68	-1.15	0.001	38	6.0	605	107

Table 4. Results of the HTTP/1.1 tests with desktop client (DESK), compression, but no encryption.

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	6922	697	1.00	0.00		56	6.0	762	99
SHA2	6819	827	0.99	-0.04		57	13.0	763	106
SHA3	6943	849	1.00	-0.01		57	17.0	763	89
SHA10	7680	781	1.11	1.07		56	21.0	715	108
CDN	7974	871	1.15	1.23		56	6.0	768	111
CDN2	7264	921	1.05	0.55		57	13.0	768	98
CDN3	7435	661	1.07	0.77		57	17.0	768	93
CDN10	7425	741	1.07	0.82		57	21.0	768	109
TRREF	7023	840	1.00	0.00		56	6.0	813	98
MIN	6896	608	0.98	-0.30	0.005	56	6.0	749	100
CAT	6408	945	0.91	-0.52	0.001	41	6.0	800	100
MINCAT	6233	851	0.89	-0.89	0.001	41	6.0	735	110
UGREF	7130	797	1.00	0.00		61	6.0	746	174
SPRITE	6228	485	0.87	-1.39	0.001	49	6.0	712	90
SYMFO	6275	786	0.88	-0.91	0.001	48	6.0	708	111
RIREF	7214	728	1.00	0.00		55	6.0	865	102
H5PIC	6724	421	0.93	-1.12	0.001	55	6.0	689	102
PIC	6700	937	0.93	-0.79	0.001	56	6.0	691	86
AI	7287	896	1.01	0.19		56	6.0	865	110
AIGEN	7198	738	1.00	-0.01		56	6.0	865	96
FCCT	8187	791	1.13	1.12		78	6.0	717	93
ECCT	6624	388	0.92	-1.38	0.001	55	6.0	690	92
LZYRIR	5736	930	0.80	-1.59	0.001	39	6.0	623	82
LZYH5	5309	486	0.74	-3.21	0.001	39	6.0	552	83
LZYPIC	5456	674	0.76	-2.66	0.001	40	6.0	553	106
LZYAI	6018	1060	0.83	-0.99	0.001	40	6.0	623	141
LZYAIG	6061	1150	0.84	-0.92	0.001	40	6.0	623	98
LZYFC	5758	540	0.80	-2.46	0.001	45	6.0	555	128
LZYEC	5398	593	0.75	-2.85	0.001	39	6.0	553	125

Table 5. Results of the HTTP/1.1 tests with emulated Android mobile client (MOBI), compression, but no encryption.

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	7616	609	1.00	0.00		56	6.0	756	66
SHA2	7247	872	0.95	-0.24	0.001	57	13.0	756	79
SHA3	7750	950	1.02	0.05		57	19.0	756	75
SHA10	8006	704	1.05	1.13		57	23.0	760	3
CDN	8261	606	1.08	1.17		56	6.0	768	79
CDN2	8098	2491	1.06	0.53		57	13.0	769	72
CDN3	8312	665	1.09	1.38		57	19.0	769	78
CDN10	7886	507	1.04	0.84		57	28.0	769	69
TRREF	7488	393	1.00	0.00		56	6.0	807	74
MIN	7474	564	1.00	-0.14	0.05	56	6.0	742	75
CAT	7046	529	0.94	-1.14	0.001	41	6.0	796	73
MINCAT	6786	478	0.91	-1.65	0.001	41	6.0	731	71
UGREF	7653	453	1.00	0.00		61	6.0	739	79
SPRITE	6848	971	0.89	-1.00	0.001	49	6.0	706	74
SYMFO	6598	1283	0.86	-0.92	0.001	48	6.0	702	85
RIREF	7766	506	1.00	0.00		55	6.0	858	76
H5PIC	7055	402	0.91	-1.58	0.001	55	6.0	566	74
PIC	7512	576	0.97	-0.46	0.001	56	6.0	567	78
AI	7794	611	1.00	-0.02		56	6.0	858	82
AIGEN	7739	633	1.00	0.16		56	6.0	858	77
FCCT	8489	820	1.09	1.14		77	6.0	576	75
ECCT	6886	295	0.89	-2.22	0.001	55	6.0	567	84
LZYRIR	6781	1533	0.87	-0.72	0.001	38	6.0	599	76
LZYH5	6318	252	0.81	-3.72	0.001	38	6.0	494	78
LZYPIC	6302	1055	0.81	-1.64	0.001	39	6.0	495	72
LZYAI	6720	771	0.87	-1.48	0.001	39	6.0	599	73
LZYAIG	6750	468	0.87	-2.04	0.001	39	6.0	599	72
LZYFC	6592	478	0.85	-2.24	0.001	43	6.0	496	78
LZYEC	6207	462	0.80	-3.08	0.001	38	6.0	495	76

Table 6. Results of the HTTP/1.1 tests with Moto G mobile client (MOTO), compression, but no encryption.

Technique	D-med.	D-eff.	D-p<	M-med.	M-eff.	M-p<	G-med.	G-eff.	G-p<
BASE	2692	0.00		6922	0.00		7616	0.00	
SHA2	2575	0.01		6819	-0.04		7247	-0.24	0.001
SHA3	2586	0.06		6943	-0.01		7750	0.05	
SHA10	4395	1.94		7680	1.07		8006	1.13	
CDN	3348	1.21		7974	1.23		8261	1.17	
CDN2	3014	0.55		7264	0.55		8098	0.53	
CDN3	3106	0.65		7435	0.77		8312	1.38	
CDN10	3168	0.78		7425	0.82		7886	0.84	
TRREF	2381	0.00		7023	0.00		7488	0.00	
MIN	2736	0.08		6896	-0.30	0.005	7474	-0.14	0.05
CAT	2602	-0.07		6408	-0.52	0.001	7046	-1.14	0.001
MINCAT	2168	-0.35	0.001	6233	-0.89	0.001	6786	-1.65	0.001
UGREF	2591	0.00		7130	0.00		7653	0.00	
SPRITE	2206	-0.36	0.001	6228	-1.39	0.001	6848	-1.00	0.001
SYMFO	3148	0.59		6275	-0.91	0.001	6598	-0.92	0.001
RIREF	3047	0.00		7214	0.00		7766	0.00	
H5PIC	2706	-0.12		6724	-1.12	0.001	7055	-1.58	0.001
PIC	2670	-0.12		6700	-0.79	0.001	7512	-0.46	0.001
AI	2615	-0.17		7287	0.19		7794	-0.02	
AIGEN	2895	0.11		7198	-0.01		7739	0.16	
FCCT	3018	0.41		8187	1.12		8489	1.14	
ECCT	2609	-0.13		6624	-1.38	0.001	6886	-2.22	0.001
LZYRIR	1969	-1.27	0.001	5736	-1.59	0.001	6781	-0.72	0.001
LZYH5	2215	-0.93	0.001	5309	-3.21	0.001	6318	-3.72	0.001
LZYPIC	2306	-0.93	0.001	5456	-2.66	0.001	6302	-1.64	0.001
LZYAI	2588	-0.67	0.001	6018	-0.99	0.001	6720	-1.48	0.001
LZYAIG	2054	-1.02	0.001	6061	-0.92	0.001	6750	-2.04	0.001
LZYFC	2294	-0.20	0.001	5758	-2.46	0.001	6592	-2.24	0.001
LZYEC	2069	-1.15	0.001	5398	-2.85	0.001	6207	-3.08	0.001

Table 7. Comparison of the HTTP/1.1 tests with compression, but no encryption (D=DESK, M=MOBI, G=MOTO).

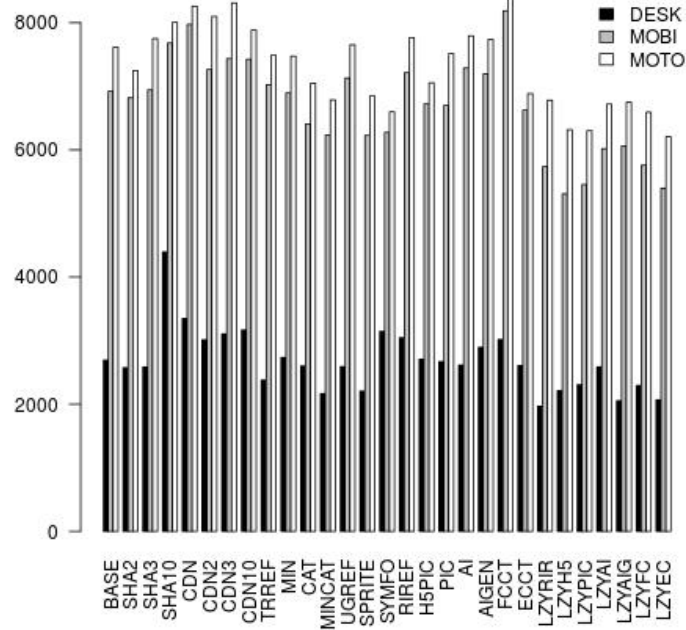


Table 8. Comparison of the median HTTP/1.1 load times with compression, but no encryption.

1.2. HTTPS/1.1 with encryption and compression

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	2852	621	1.00	0.00		56	6.0	776	94
SHA2	3123	751	1.09	0.11		57	13.0	784	106
SHA3	3508	771	1.23	0.36		57	14.0	793	169
SHA10	5002	1041	1.75	2.10		56	14.0	754	106
CDN	2472	726	0.87	-0.98	0.001	56	1.0	770	100
CDN2	2485	1327	0.87	-0.48	0.001	57	2.0	773	94
CDN3	2502	710	0.88	-0.90	0.001	57	2.0	773	107
CDN10	2696	1775	0.95	-0.20	0.001	57	2.0	787	108
TRREF	2954	535	1.00	0.00		56	6.0	827	98
MIN	2782	898	0.94	-0.11	0.005	56	6.0	762	85
CAT	2866	425	0.97	-0.53	0.001	41	6.0	816	125
MINCAT	2757	481	0.93	-0.70	0.001	41	6.0	747	99
UGREF	3077	704	1.00	0.00		61	6.0	759	133
SPRITE	2654	442	0.86	-0.70	0.001	49	6.0	725	85
SYMFO	3322	809	1.08	0.36		48	6.0	721	90
RIREF	3482	632	1.00	0.00		55	6.0	878	114
H5PIC	3461	633	0.99	0.05		55	6.0	879	114
PIC	3397	634	0.98	0.09		56	6.0	880	114
AI	3060	604	0.88	-0.28	0.05	56	6.0	878	86
AIGEN	2968	567	0.85	-0.30	0.05	56	6.0	878	102
FCCT	3534	700	1.01	0.56		81	6.0	943	87
ECCT	3008	911	0.86	-0.12	0.05	55	6.0	880	91
LZYRIR	2912	730	0.84	-0.71	0.001	38	6.0	616	113
LZYH5	2824	706	0.81	-0.80	0.001	38	6.0	617	103
LZYPIC	2517	721	0.72	-0.86	0.001	39	6.0	618	115
LZYAI	2626	551	0.75	-1.02	0.001	39	6.0	616	81
LZYAIG	2483	530	0.71	-1.24	0.001	39	6.0	616	97
LZYFC	2918	760	0.84	-0.47	0.001	44	6.0	606	110
LZYEC	2538	512	0.73	-1.20	0.001	38	6.0	617	86

Table 9. Results of the HTTPS/1.1 tests with desktop client (DESK), encryption, and compression.

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	8680	672	1.00	0.00		56	6.0	776	130
SHA2	8512	719	0.98	-0.31	0.05	57	13.0	784	130
SHA3	8616	885	0.99	-0.16		57	15.0	793	82
SHA10	9638	689	1.11	1.35		56	16.0	755	112
CDN	6287	1586	0.72	-1.67	0.001	56	1.0	769	136
CDN2	8128	962	0.94	-0.83	0.001	58	2.0	791	108
CDN3	7718	709	0.89	-1.50	0.001	57	2.0	794	96
CDN10	7734	806	0.89	-1.15	0.001	57	3.0	810	95
TRREF	8969	759	1.00	0.00		56	6.0	827	88
MIN	8677	763	0.97	-0.36	0.001	56	6.0	762	127
CAT	8302	1769	0.93	-0.29	0.001	41	6.0	816	100
MINCAT	8013	831	0.89	-1.16	0.001	41	6.0	747	115
UGREF	8944	834	1.00	0.00		61	6.0	759	94
SPRITE	8043	631	0.90	-1.39	0.001	49	6.0	725	127
SYMFO	8184	762	0.92	-1.11	0.001	48	6.0	721	119
RIREF	9291	906	1.00	0.00		55	6.0	878	94
H5PIC	8529	710	0.92	-1.09	0.001	55	6.0	702	111
PIC	8592	729	0.92	-1.04	0.001	56	6.0	704	96
AI	9324	909	1.00	-0.05		56	6.0	878	103
AIGEN	9377	976	1.01	0.10		56	6.0	878	106
FCCT	9992	553	1.08	0.81		78	6.0	731	88
ECCT	8496	627	0.91	-1.22	0.001	55	6.0	703	95
LZYRIR	7916	1212	0.85	-1.19	0.001	39	6.0	635	83
LZYH5	7168	719	0.77	-2.59	0.001	39	6.0	564	85
LZYPIC	7327	1411	0.79	-1.55	0.001	40	6.0	565	109
LZYAI	8243	1200	0.89	-0.97	0.001	40	6.0	635	99
LZYAIG	7859	1161	0.85	-1.21	0.001	40	6.0	635	95
LZYFC	7575	1093	0.82	-1.61	0.001	45	6.0	568	128
LZYEC	7244	652	0.78	-2.71	0.001	39	6.0	565	109

Table 10. Results of the HTTPS/1.1 tests with generic Android mobile client (MOBI), encryption, and compression.

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	9680	775	1.00	0.00		56	6.0	756	73
SHA2	9093	867	0.94	-0.40	0.001	57	13.0	756	77
SHA3	9265	897	0.96	-0.25	0.005	57	18.0	756	72
SHA10	9904	158	1.02	0.45		57	17.0	760	2
CDN	6403	2274	0.66	-1.55	0.001	56	1.0	743	74
CDN2	8339	1453	0.86	-0.93	0.001	57	2.0	743	71
CDN3	8161	1427	0.84	-0.99	0.001	57	2.0	743	77
CDN10	8336	1345	0.86	-0.88	0.001	57	3.0	743	75
TRREF	9820	568	1.00	0.00		56	6.0	807	74
MIN	9573	591	0.97	-0.25	0.005	56	6.0	742	75
CAT	8716	528	0.89	-1.51	0.001	41	6.0	796	76
MINCAT	8159	900	0.83	-1.73	0.001	41	6.0	731	68
UGREF	9839	606	1.00	0.00		61	6.0	739	74
SPRITE	8920	411	0.91	-1.68	0.001	49	6.0	706	69
SYMFO	8876	807	0.90	-1.46	0.001	48	6.0	703	76
RIREF	9872	551	1.00	0.00		55	6.0	858	80
H5PIC	9181	692	0.93	-0.97	0.001	55	6.0	566	82
PIC	9226	647	0.93	-0.92	0.001	56	6.0	567	76
AI	9856	1728	1.00	0.14		56	6.0	858	68
AIGEN	9964	837	1.01	0.22		56	6.0	858	77
FCCT	10598	531	1.07	1.53		77	6.0	576	73
ECCT	9029	521	0.91	-1.65	0.001	55	6.0	567	76
LZYRIR	8366	1475	0.85	-1.13	0.001	38	6.0	599	74
LZYH5	8006	935	0.81	-2.18	0.001	38	6.0	494	72
LZYPIC	7952	1348	0.81	-1.67	0.001	39	6.0	495	67
LZYAI	8402	322	0.85	-3.04	0.001	39	6.0	599	69
LZYAIG	8479	400	0.86	-2.70	0.001	39	6.0	599	75
LZYFC	8284	742	0.84	-2.18	0.001	43	6.0	496	77
LZYEC	7882	785	0.80	-2.65	0.001	38	6.0	495	72

Table 11. Results of the HTTPS/1.1 tests with Moto G mobile client (MOTO), encryption, and compression.

Technique	D-med.	D-eff.	D-p<	M-med.	M-eff.	M-p<	G-med.	G-eff.	G-p<
BASE	2852	0.00		8680	0.00		9680	0.00	
SHA2	3123	0.11		8512	-0.31	0.05	9093	-0.40	0.001
SHA3	3508	0.36		8616	-0.16		9265	-0.25	0.005
SHA10	5002	2.10		9638	1.35		9904	0.45	
CDN	2472	-0.98	0.001	6287	-1.67	0.001	6403	-1.55	0.001
CDN2	2485	-0.48	0.001	8128	-0.83	0.001	8339	-0.93	0.001
CDN3	2502	-0.90	0.001	7718	-1.50	0.001	8161	-0.99	0.001
CDN10	2696	-0.20	0.001	7734	-1.15	0.001	8336	-0.88	0.001
TRREF	2954	0.00		8969	0.00		9820	0.00	
MIN	2782	-0.11	0.005	8677	-0.36	0.001	9573	-0.25	0.005
CAT	2866	-0.53	0.001	8302	-0.29	0.001	8716	-1.51	0.001
MINCAT	2757	-0.70	0.001	8013	-1.16	0.001	8159	-1.73	0.001
UGREF	3077	0.00		8944	0.00		9839	0.00	
SPRITE	2654	-0.70	0.001	8043	-1.39	0.001	8920	-1.68	0.001
SYMFO	3322	0.36		8184	-1.11	0.001	8876	-1.46	0.001
RIREF	3482	0.00		9291	0.00		9872	0.00	
H5PIC	3461	0.05		8529	-1.09	0.001	9181	-0.97	0.001
PIC	3397	0.09		8592	-1.04	0.001	9226	-0.92	0.001
AI	3060	-0.28	0.05	9324	-0.05		9856	0.14	
AIGEN	2968	-0.30	0.05	9377	0.10		9964	0.22	
FCCT	3534	0.56		9992	0.81		10598	1.53	
ECCT	3008	-0.12	0.05	8496	-1.22	0.001	9029	-1.65	0.001
LZYRIR	2912	-0.71	0.001	7916	-1.19	0.001	8366	-1.13	0.001
LZYH5	2824	-0.80	0.001	7168	-2.59	0.001	8006	-2.18	0.001
LZYPIC	2517	-0.86	0.001	7327	-1.55	0.001	7952	-1.67	0.001
LZYAI	2626	-1.02	0.001	8243	-0.97	0.001	8402	-3.04	0.001
LZYAIG	2483	-1.24	0.001	7859	-1.21	0.001	8479	-2.70	0.001
LZYFC	2918	-0.47	0.001	7575	-1.61	0.001	8284	-2.18	0.001
LZYEC	2538	-1.20	0.001	7244	-2.71	0.001	7882	-2.65	0.001

Table 12. Comparison of the HTTPS/1.1 tests with encryption and compression (D=DESK, M=MOBI, G=MOTO).

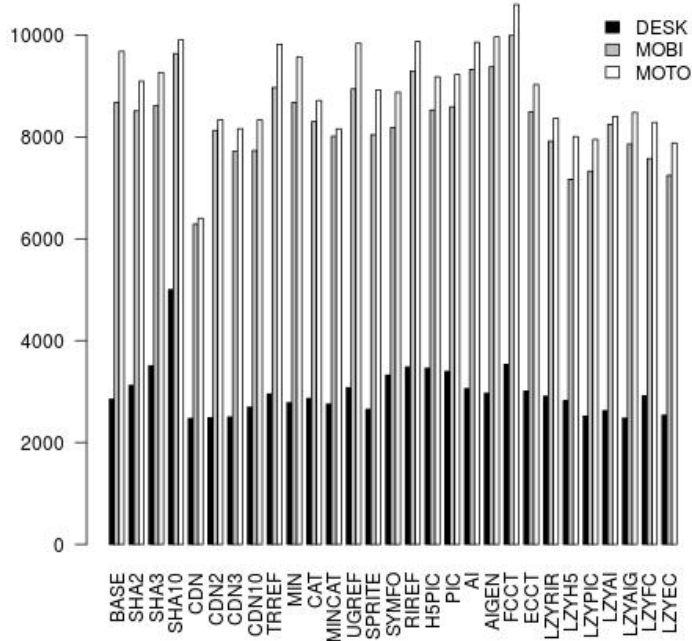


Table 13. Comparison of the median HTTPS/1.1 load times with encryption and compression.

1.3. HTTPS/2 with encryption and compression

Variant	Med.	Std	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	3181	632	1.00	0.00		56	1.0	758	105
SHA2	3440	741	1.08	0.44		57	3.0	783	124
SHA3	3126	607	0.98	0.21		57	4.0	785	99
SHA10	4576	892	1.44	1.61		56	10.0	765	93
CDN	2452	1098	0.77	-0.64	0.001	56	1.0	756	86
CDN2	3074	936	0.97	0.02		57	1.0	776	136
CDN3	3084	687	0.97	-0.15		57	1.0	775	106
CDN10	2606	708	0.82	-0.64	0.001	57	2.0	777	81
TRREF	3073	1195	1.00	0.00		56	1.0	808	115
MIN	3314	731	1.08	-0.10		56	4.0	771	88
CAT	2828	652	0.92	-0.44	0.001	41	1.0	799	87
MINCAT	2783	581	0.91	-0.48	0.001	41	1.0	734	99
UGREF	3326	512	1.00	0.00		61	4.5	768	82
SPRITE	3142	685	0.94	-0.24	0.05	49	1.0	708	117
SYMFO	3565	849	1.07	0.70		50	1.0	705	105
RIREF	3358	829	1.00	0.00		55	1.0	860	98
H5PIC	3297	779	0.98	-0.05		55	1.0	861	104
PIC	3236	643	0.96	-0.15		56	1.0	863	93
AI	3297	644	0.98	-0.15		56	4.0	887	89
AIGEN	3490	638	1.04	-0.02		56	4.0	887	86
FCCT	3771	813	1.12	0.53		82	1.0	947	99
ECCT	3391	636	1.01	-0.14		55	4.0	889	93
LZYRIR	2877	777	0.86	-0.54	0.001	38	1.0	601	127
LZYH5	2845	783	0.85	-0.62	0.001	38	1.0	603	92
LZYPIC	2872	949	0.86	-0.53	0.001	39	1.0	603	113
LZYAI	2906	634	0.87	-0.69	0.001	39	1.0	602	109
LZYAIG	2849	747	0.85	-0.66	0.001	39	1.0	601	109
LZYFC	2978	551	0.89	-0.58	0.001	44	4.0	622	86
LZYEC	2814	554	0.84	-0.91	0.001	38	1.0	603	105

Table 14. Results of the HTTPS/2 tests with desktop client (DESK), encryption, and compression.

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	7844	1871	1.00	0.00		56	1.0	756	102
SHA2	8676	1471	1.11	0.57		57	5.0	801	84
SHA3	8454	1213	1.08	0.57		57	4.0	815	84
SHA10	8985	1103	1.15	0.80		56	10.0	772	104
CDN	6527	1326	0.83	-0.62	0.001	56	1.0	772	94
CDN2	7842	1429	1.00	0.13		57	2.0	778	93
CDN3	7836	1591	1.00	0.12		57	2.0	779	122
CDN10	7841	702	1.00	-0.04		57	2.0	811	99
TRREF	8182	2279	1.00	0.00		56	1.0	808	96
MIN	6846	1782	0.84	-0.76	0.001	56	1.0	743	107
CAT	7743	1617	0.95	-0.54	0.005	41	1.0	797	99
MINCAT	6886	2085	0.84	-0.61	0.001	41	1.0	733	71
UGREF	8378	2270	1.00	0.00		61	2.0	768	95
SPRITE	7662	1889	0.91	-0.23		49	4.0	733	90
SYMFO	7785	1391	0.93	-0.39	0.05	48	1.0	714	107
RIREF	8672	1986	1.00	0.00		55	4.0	887	96
H5PIC	7065	2069	0.81	-0.76	0.001	55	1.0	683	112
PIC	8119	2084	0.94	-0.28	0.05	56	4.0	712	85
AI	8384	1662	0.97	-0.48	0.005	56	1.0	859	106
AIGEN	8665	2108	1.00	-0.00		56	4.0	887	97
FCCT	9547	3111	1.10	0.27		78	4.0	740	86
ECCT	6505	1623	0.75	-1.16	0.001	55	1.0	684	136
LZYRIR	6854	1537	0.79	-1.15	0.001	39	1.0	620	111
LZYH5	6903	1653	0.80	-0.85	0.001	39	4.0	573	78
LZYPIC	6618	1574	0.76	-1.33	0.001	40	1.0	550	104
LZYAI	7148	1905	0.82	-0.80	0.001	40	1.0	621	90
LZYAIG	7011	1553	0.81	-1.04	0.001	40	1.0	619	109
LZYFC	7188	1644	0.83	-0.77	0.001	45	1.0	551	96
LZYEC	6185	1454	0.71	-1.58	0.001	39	1.0	550	117

Table 15. Results of the HTTPS/2 tests with emulated mobile client (MOBI), encryption, and compression.

Technique	D-med.	D-eff.	D-p<	M-med.	M-eff.	M-p<
BASE	3181	0.00		7844	0.00	
SHA2	3440	0.44		8676	0.57	
SHA3	3126	0.21		8454	0.57	
SHA10	4576	1.61		8985	0.80	
CDN	2452	-0.64	0.001	6527	-0.62	0.001
CDN2	3074	0.02		7842	0.13	
CDN3	3084	-0.15		7836	0.12	
CDN10	2606	-0.64	0.001	7841	-0.04	
TRREF	3073	0.00		8182	0.00	
MIN	3314	-0.10		6846	-0.76	0.001
CAT	2828	-0.44	0.001	7743	-0.54	0.005
MINCAT	2783	-0.48	0.001	6886	-0.61	0.001
UGREF	3326	0.00		8378	0.00	
SPRITE	3142	-0.24	0.05	7662	-0.23	
SYMFO	3565	0.70		7785	-0.39	0.05
RIREF	3358	0.00		8672	0.00	
H5PIC	3297	-0.05		7065	-0.76	0.001
PIC	3236	-0.15		8119	-0.28	0.05
AI	3297	-0.15		8384	-0.48	0.005
AIGEN	3490	-0.02		8665	-0.00	
FCCT	3771	0.53		9547	0.27	
ECCT	3391	-0.14		6505	-1.16	0.001
LZYRIR	2877	-0.54	0.001	6854	-1.15	0.001
LZYH5	2845	-0.62	0.001	6903	-0.85	0.001
LZYPIC	2872	-0.53	0.001	6618	-1.33	0.001
LZYAI	2906	-0.69	0.001	7148	-0.80	0.001
LZYAIG	2849	-0.66	0.001	7011	-1.04	0.001
LZYFC	2978	-0.58	0.001	7188	-0.77	0.001
LZYEC	2814	-0.91	0.001	6185	-1.58	0.001

Table 16. Comparison of the HTTPS/2 tests with encryption and compression (D=DESK, M=MOBI).

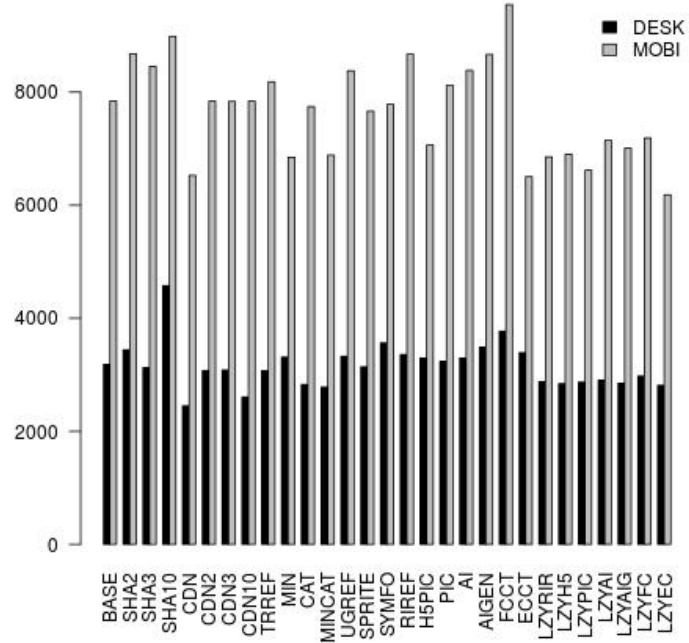


Table 17. Comparison of the median HTTPS/2 load times with encryption and compression.

1.4. HTTP/1.1 without encryption and compression

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	3671	732	1.00	0.00		56	6.0	1481	91
SHA2	4104	1526	1.12	0.46		57	13.0	1484	124
SHA3	3508	683	0.96	0.09		57	16.0	1484	89
SHA10	5164	1020	1.41	1.49		56	19.0	1436	106
TRREF	4588	597	1.00	0.00		56	6.0	2144	104
MIN	3792	695	0.83	-1.49	0.001	56	6.0	1427	128
CAT	4583	479	1.00	-0.09		41	6.0	2135	85
MINCAT	3657	897	0.80	-1.23	0.001	41	6.0	1413	104
UGREF	3662	686	1.00	0.00		61	6.0	1467	104
SPRITE	3536	506	0.97	-0.32	0.05	49	6.0	1430	105
SYMFO	3698	730	1.01	0.15		48	6.0	1426	88
RIREF	3381	539	1.00	0.00		55	6.0	1583	86
H5PIC	3332	566	0.99	-0.01		55	6.0	1592	77
PIC	4222	769	1.25	1.02		56	6.0	1596	94
AI	3904	836	1.15	0.56		56	6.0	1584	98
AIGEN	3888	736	1.15	0.53		56	6.0	1584	107
FCCT	3827	2832	1.13	0.38		80	6.0	1651	85
ECCT	3796	902	1.12	0.49		55	6.0	1601	110
LZYRIR	3195	743	0.94	-0.16	0.001	38	6.0	1324	81
LZYH5	3286	512	0.97	-0.26	0.01	38	6.0	1334	90
LZYPIC	3236	576	0.96	-0.27	0.001	39	6.0	1336	89
LZYAI	3413	606	1.01	-0.03		39	6.0	1324	99
LZYAIG	3206	621	0.95	-0.28	0.001	39	6.0	1324	87
LZYFC	3802	672	1.12	0.40		44	6.0	1347	104
LZYEC	3264	677	0.97	-0.22	0.005	38	6.0	1342	90

Table 18. Results of the HTTP/1.1 tests with desktop client (DESK), but no encryption or compression.

Variant	Med.	Std.	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	9606	1006	1.00	0.00		56	6.0	1481	82
SHA2	10359	818	1.08	0.70		57	13.0	1484	85
SHA3	10538	1160	1.10	0.79		57	17.0	1484	106
SHA10	10936	1405	1.14	0.88		56	21.0	1436	136
TRREF	13456	1202	1.00	0.00		56	6.0	2144	104
MIN	9772	933	0.73	-3.52	0.001	56	6.0	1427	108
CAT	13962	905	1.04	0.53		41	8.0	2135	107
MINCAT	10424	937	0.77	-3.00	0.001	41	6.0	1413	118
UGREF	9941	676	1.00	0.00		61	6.0	1467	115
SPRITE	9502	712	0.96	-0.56	0.001	49	6.0	1430	128
SYMFO	9348	825	0.94	-0.47	0.001	48	6.0	1426	98
RIREF	10244	1087	1.00	0.00		55	6.0	1583	93
H5PIC	9662	1071	0.94	-0.55	0.001	55	6.0	1416	113
PIC	10582	1591	1.03	0.41		56	6.0	1420	94
AI	10590	1168	1.03	0.35		56	6.0	1584	112
AIGEN	9959	849	0.97	-0.16		56	6.0	1584	87
FCCT	10962	892	1.07	0.60		78	6.0	1445	98
ECCT	9826	871	0.96	-0.48	0.001	55	6.0	1425	101
LZYRIR	9447	1244	0.92	-0.50	0.001	39	6.0	1342	97
LZYH5	9683	916	0.95	-0.67	0.001	39	6.0	1282	124
LZYPIC	9318	1006	0.91	-0.81	0.001	40	6.0	1284	95
LZYAI	9578	929	0.93	-0.57	0.001	40	6.0	1343	102
LZYAIG	9788	948	0.96	-0.39	0.005	40	6.0	1343	104
LZYFC	9674	854	0.94	-0.55	0.001	45	6.0	1279	108
LZYEC	9378	1065	0.92	-0.77	0.001	39	6.0	1289	98

Table 19. Results of the HTTP/1.1 tests with generic Android mobile client (MOBI), but no encryption or compression.

Variant	Med.	Std.	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	10454	683	1.00	0.00		56	6.0	1475	76
SHA2	11607	1234	1.11	1.35		57	13.0	1478	79
SHA3	12230	1355	1.17	1.68		57	19.0	1478	72
SHA10	11894	1074	1.14	1.95		56	23.0	1481	2
TRREF	14277	1331	1.00	0.00		56	6.0	2138	77
MIN	10340	664	0.72	-4.06	0.001	56	6.0	1421	68
CAT	15223	770	1.07	0.51		41	7.0	2130	70
MINCAT	10659	1031	0.75	-3.06	0.001	41	6.0	1408	73
UGREF	10470	716	1.00	0.00		61	6.0	1460	72
SPRITE	10325	1495	0.99	-0.05	0.005	49	6.0	1424	77
SYMFO	10214	926	0.98	-0.44	0.001	48	6.0	1420	73
RIREF	10664	814	1.00	0.00		55	6.0	1577	69
H5PIC	9858	469	0.92	-1.49	0.001	55	6.0	1293	78
PIC	11244	1199	1.05	0.43		56	6.0	1296	77
AI	10633	1092	1.00	-0.01		56	6.0	1577	73
AIGEN	10685	664	1.00	-0.16		56	6.0	1577	75
FCCT	10784	717	1.01	-0.07		77	6.0	1305	75
ECCT	9950	491	0.93	-1.38	0.001	55	6.0	1302	79
LZYRIR	10522	1276	0.99	-0.24	0.001	38	6.0	1319	80
LZYH5	10126	490	0.95	-1.17	0.001	38	6.0	1224	78
LZYPIC	10132	564	0.95	-1.08	0.001	39	6.0	1226	74
LZYAI	10464	643	0.98	-0.43	0.001	39	6.0	1319	74
LZYAIG	10494	681	0.98	-0.35	0.001	39	6.0	1320	78
LZYFC	10422	1338	0.98	-0.26	0.001	43	6.0	1220	76
LZYEC	10054	895	0.94	-0.85	0.001	38	6.0	1232	84

Table 20. Results of the HTTP/1.1 tests with Moto G mobile client (MOTO), but no encryption or compression.

Technique	D-med.	D-eff.	D-p<	M-med.	M-eff.	M-p<	G-med.	G-eff.	G-p<
BASE	3671	0.00		9606	0.00		10454	0.00	
SHA2	4104	0.46		10359	0.70		11607	1.35	
SHA3	3508	0.09		10538	0.79		12230	1.68	
SHA10	5164	1.49		10936	0.88		11894	1.95	
TRREF	4588	0.00		13456	0.00		14277	0.00	
MIN	3792	-1.49	0.001	9772	-3.52	0.001	10340	-4.06	0.001
CAT	4583	-0.09		13962	0.53		15223	0.51	
MINCAT	3657	-1.23	0.001	10424	-3.00	0.001	10659	-3.06	0.001
UGREF	3662	0.00		9941	0.00		10470	0.00	
SPRITE	3536	-0.32	0.05	9502	-0.56	0.001	10325	-0.05	0.005
SYMFO	3698	0.15		9348	-0.47	0.001	10214	-0.44	0.001
RIREF	3381	0.00		10244	0.00		10664	0.00	
H5PIC	3332	-0.01		9662	-0.55	0.001	9858	-1.49	0.001
PIC	4222	1.02		10582	0.41		11244	0.43	
AI	3904	0.56		10590	0.35		10633	-0.01	
AIGEN	3888	0.53		9959	-0.16		10685	-0.16	
FCCT	3827	0.38		10962	0.60		10784	-0.07	
ECCT	3796	0.49		9826	-0.48	0.001	9950	-1.38	0.001
LZYRIR	3195	-0.16	0.001	9447	-0.50	0.001	10522	-0.24	0.001
LZYH5	3286	-0.26	0.01	9683	-0.67	0.001	10126	-1.17	0.001
LZYPIC	3236	-0.27	0.001	9318	-0.81	0.001	10132	-1.08	0.001
LZYAI	3413	-0.03		9578	-0.57	0.001	10464	-0.43	0.001
LZYAIG	3206	-0.28	0.001	9788	-0.39	0.005	10494	-0.35	0.001
LZYFC	3802	0.40		9674	-0.55	0.001	10422	-0.26	0.001
LZYEC	3264	-0.22	0.005	9378	-0.77	0.001	10054	-0.85	0.001

Table 21. Comparison of the HTTP/1.1 tests with no encryption or compression (D=DESK, M=MOBI, G=MOTO).

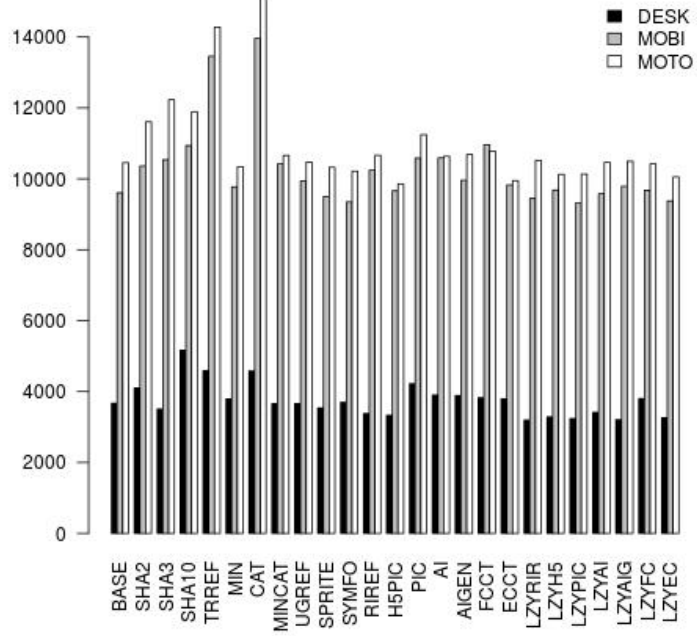


Table 22. Comparison of the median HTTP/1.1 load times with no encryption or compression.

1.5. *HTTPS/1.1 with encryption, but no compression*

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	3714	1184	1.00	0.00		56	6.0	1497	88
SHA2	4040	471	1.09	0.21		57	12.0	1513	96
SHA3	4044	611	1.09	0.28		57	13.0	1520	94
SHA10	5454	883	1.47	1.65		56	15.0	1480	102
TRREF	5168	746	1.00	0.00		56	6.0	2162	102
MIN	3942	531	0.76	-2.14	0.001	56	6.0	1443	118
CAT	4796	849	0.93	-0.31	0.001	41	6.0	2153	94
MINCAT	3808	615	0.74	-2.02	0.001	41	6.0	1428	118
UGREF	3607	745	1.00	0.00		61	6.0	1482	85
SPRITE	3662	537	1.02	0.00		50	6.0	1445	85
SYMFO	4440	978	1.23	0.77		48	6.0	1441	132
RIREF	3911	805	1.00	0.00		55	6.0	1599	93
H5PIC	4168	774	1.07	0.17		55	6.0	1609	110
PIC	4258	840	1.09	0.52		56	6.0	1612	91
AI	3939	753	1.01	-0.00		56	6.0	1600	91
AIGEN	4009	762	1.03	0.01		56	6.0	1600	97
FCCT	4667	832	1.19	0.79		81	6.0	1669	127
ECCT	4082	807	1.04	0.14		55	6.0	1617	100
LZYRIR	3629	504	0.93	-0.50	0.001	38	6.0	1338	106
LZYH5	3698	883	0.95	-0.24	0.001	38	6.0	1348	104
LZYPIC	3798	740	0.97	-0.25	0.01	39	6.0	1351	96
LZYAI	3669	546	0.94	-0.45	0.001	39	6.0	1338	94
LZYAIG	3750	479	0.96	-0.41	0.005	39	6.0	1338	102
LZYFC	3868	848	0.99	-0.03		43	6.0	1331	90
LZYEC	3718	750	0.95	-0.34	0.001	38	6.0	1356	96

Table 23. Results of the HTTPS/1.1 tests with desktop client (DESK), encryption, but no compression.

Variant	Med.	Std	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	11334	1153	1.00	0.00		56	6.0	1497	84
SHA2	12103	1282	1.07	0.66		57	12.0	1513	87
SHA3	12216	1301	1.08	0.68		57	14.0	1521	96
SHA10	12558	927	1.11	0.73		56	17.0	1478	108
TRREF	14911	1177	1.00	0.00		56	6.0	2162	80
MIN	11810	1118	0.79	-3.04	0.001	56	6.0	1443	117
CAT	15077	1215	1.01	0.05		41	6.0	2153	109
MINCAT	10890	1221	0.73	-3.32	0.001	41	6.0	1428	103
UGREF	12390	1117	1.00	0.00		61	6.0	1482	119
SPRITE	10987	1186	0.89	-0.76	0.001	50	6.0	1445	93
SYMFO	11216	998	0.91	-0.79	0.001	50	6.0	1441	104
RIREF	11659	955	1.00	0.00		55	6.0	1599	85
H5PIC	11015	1197	0.94	-0.48	0.001	55	6.0	1432	83
PIC	12195	1708	1.05	0.62		56	6.0	1435	91
AI	12381	1077	1.06	0.48		56	6.0	1600	107
AIGEN	11662	1471	1.00	0.20		56	6.0	1600	85
FCCT	12572	1295	1.08	0.72		78	6.0	1461	102
ECCT	11138	1246	0.96	-0.23	0.005	55	6.0	1441	79
LZYRIR	12139	1682	1.04	0.36		39	6.0	1357	133
LZYH5	11552	1797	0.99	0.13		39	6.0	1296	103
LZYPIC	10879	1825	0.93	-0.18	0.001	40	6.0	1299	87
LZYAI	11058	1519	0.95	-0.13	0.005	40	6.0	1358	82
LZYAIG	11878	1725	1.02	0.29		40	6.0	1358	103
LZYFC	11638	1557	1.00	0.16		45	6.0	1294	102
LZYEC	11985	2025	1.03	0.31		39	6.0	1304	97

Table 24. Results of the HTTPS/1.1 tests with generic Android mobile client (MOBI), encryption, but no compression.

Variant	Med.	Std	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	12162	887	1.00	0.00		56	6.0	1475	73
SHA2	13271	889	1.09	1.04		57	13.0	1478	75
SHA3	13643	779	1.12	1.40		57	17.0	1478	73
SHA10	14004	429	1.15	1.63		57	20.0	1481	3
TRREF	15956	1396	1.00	0.00		56	6.0	2138	75
MIN	11977	1254	0.75	-3.37	0.001	56	6.0	1421	75
CAT	15990	1350	1.00	-0.17		41	6.0	2130	79
MINCAT	11639	901	0.73	-3.93	0.001	41	6.0	1408	78
UGREF	12189	681	1.00	0.00		61	6.0	1460	68
SPRITE	12280	927	1.01	-0.06		49	6.0	1424	82
SYMFO	11940	1133	0.98	-0.55	0.001	48	6.0	1420	76
RIREF	12478	986	1.00	0.00		55	6.0	1577	72
H5PIC	11480	1191	0.92	-0.77	0.001	55	6.0	1293	72
PIC	13036	1148	1.04	0.54		56	6.0	1296	80
AI	12438	912	1.00	-0.08		56	6.0	1577	77
AIGEN	12440	1287	1.00	-0.11		56	6.0	1577	73
FCCT	12594	1635	1.01	0.17		77	6.0	1305	70
ECCT	11572	1394	0.93	-0.79	0.001	55	6.0	1302	70
LZYRIR	12219	1547	0.98	-0.27	0.001	38	6.0	1319	75
LZYH5	11624	1314	0.93	-0.62	0.001	38	6.0	1224	72
LZYPIC	11694	1270	0.94	-0.58	0.001	39	6.0	1226	82
LZYAI	12311	1615	0.99	-0.11	0.05	39	6.0	1319	77
LZYAIG	12265	1463	0.98	-0.09	0.05	39	6.0	1320	77
LZYFC	12158	1384	0.97	-0.18	0.001	43	6.0	1220	72
LZYEC	11737	1691	0.94	-0.49	0.001	38	6.0	1232	74

Table 25. Results of the HTTPS/1.1 tests with Moto G mobile client (MOTO), encryption, but no compression.

Technique	D-med.	D-eff.	D-p<	M-med.	M-eff.	M-p<	G-med.	G-eff.	G-p<
BASE	3714	0.00		11334	0.00		12162	0.00	
SHA2	4040	0.21		12103	0.66		13271	1.04	
SHA3	4044	0.28		12216	0.68		13643	1.40	
SHA10	5454	1.65		12558	0.73		14004	1.63	
TRREF	5168	0.00		14911	0.00		15956	0.00	
MIN	3942	-2.14	0.001	11810	-3.04	0.001	11977	-3.37	0.001
CAT	4796	-0.31	0.001	15077	0.05		15990	-0.17	
MINCAT	3808	-2.02	0.001	10890	-3.32	0.001	11639	-3.93	0.001
UGREF	3607	0.00		12390	0.00		12189	0.00	
SPRITE	3662	0.00		10987	-0.76	0.001	12280	-0.06	
SYMFO	4440	0.77		11216	-0.79	0.001	11940	-0.55	0.001
RIREF	3911	0.00		11659	0.00		12478	0.00	
H5PIC	4168	0.17		11015	-0.48	0.001	11480	-0.77	0.001
PIC	4258	0.52		12195	0.62		13036	0.54	
AI	3939	-0.00		12381	0.48		12438	-0.08	
AIGEN	4009	0.01		11662	0.20		12440	-0.11	
FCCT	4667	0.79		12572	0.72		12594	0.17	
ECCT	4082	0.14		11138	-0.23	0.005	11572	-0.79	0.001
LZYRIR	3629	-0.50	0.001	12139	0.36		12219	-0.27	0.001
LZYH5	3698	-0.24	0.001	11552	0.13		11624	-0.62	0.001
LZYPIC	3798	-0.25	0.01	10879	-0.18	0.001	11694	-0.58	0.001
LZYAI	3669	-0.45	0.001	11058	-0.13	0.005	12311	-0.11	0.05
LZYAIG	3750	-0.41	0.005	11878	0.29		12265	-0.09	0.05
LZYFC	3868	-0.03		11638	0.16		12158	-0.18	0.001
LZYEC	3718	-0.34	0.001	11985	0.31		11737	-0.49	0.001

Table 26. Comparison of the HTTPS/1.1 tests with encryption, but no compression (D=DESK, M=MOBI, G=MOTO).

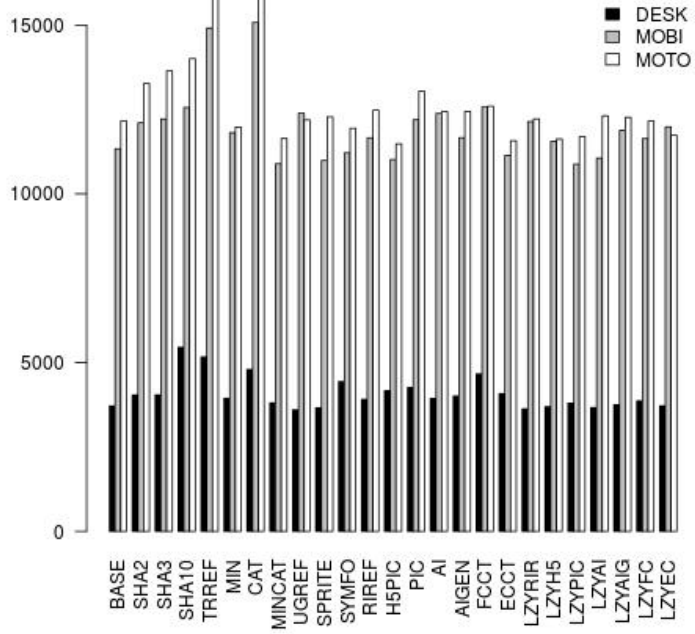


Table 27. Comparison of the median HTTP/1.1 load times with encryption, but no compression.

1.6. HTTPS/2 with encryption, but no compression

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	3690	888	1.00	0.00		56	1.0	1479	129
SHA2	3869	417	1.05	-0.01		57	3.0	1493	121
SHA3	4005	516	1.09	0.30		57	4.0	1495	102
SHA10	5188	731	1.41	1.32		56	10.0	1453	100
TRREF	4858	881	1.00	0.00		56	1.0	2144	99
MIN	3639	777	0.75	-1.48	0.001	56	1.0	1424	109
CAT	4647	448	0.96	-0.61	0.001	41	6.0	2153	83
MINCAT	3480	579	0.72	-1.97	0.001	41	1.0	1413	101
UGREF	3652	782	1.00	0.00		61	1.0	1463	97
SPRITE	3583	942	0.98	-0.05		49	1.0	1429	91
SYMFO	4498	1151	1.23	0.64		48	1.0	1424	93
RIREF	3838	769	1.00	0.00		55	1.0	1581	100
H5PIC	3768	709	0.98	-0.04		55	6.0	1609	79
PIC	4026	507	1.05	0.18		56	5.0	1612	102
AI	3805	1041	0.99	0.14		56	1.0	1581	101
AIGEN	4034	872	1.05	0.28		56	1.0	1580	156
FCCT	4060	492	1.06	0.23		81	6.0	1668	87
ECCT	3762	617	0.98	-0.19		55	1.0	1599	122
LZYRIR	3659	784	0.95	-0.16	0.005	38	1.0	1324	122
LZYH5	3581	1072	0.93	-0.27	0.001	38	6.0	1348	95
LZYPIC	3660	651	0.95	-0.28	0.001	39	1.0	1337	116
LZYAI	3540	768	0.92	-0.37	0.001	39	6.0	1338	86
LZYAIG	3694	798	0.96	-0.11	0.05	39	1.0	1324	119
LZYFC	3767	670	0.98	-0.09		44	1.0	1349	109
LZYEC	3569	596	0.93	-0.41	0.001	38	1.0	1342	104

Table 28. Results of the HTTPS/2 tests with desktop client (DESK), encryption, but no compression.

Variant	Med.	St.d	Cha.	Eff.	p<	Req.	Conn.	Byt.	n
BASE	10816	890	1.00	0.00		56	1.0	1478	111
SHA2	11408	813	1.05	0.58		57	3.0	1493	105
SHA3	11528	1267	1.07	0.69		57	4.0	1495	128
SHA10	11649	803	1.08	1.04		56	15.0	1476	93
TRREF	14300	777	1.00	0.00		56	1.0	2145	98
MIN	10604	874	0.74	-4.30	0.001	56	1.0	1424	142
CAT	14236	1483	1.00	-0.09		41	1.0	2138	102
MINCAT	10360	1048	0.72	-4.42	0.001	41	1.0	1413	118
UGREF	11064	850	1.00	0.00		61	5.5	1482	92
SPRITE	10677	1806	0.97	-0.17	0.001	49	1.0	1428	103
SYMFO	10759	992	0.97	-0.34	0.001	48	6.0	1441	82
RIREF	11094	1427	1.00	0.00		55	1.0	1581	131
H5PIC	10584	700	0.95	-0.65	0.001	55	5.0	1432	97
PIC	11334	1016	1.02	-0.12		56	3.5	1435	92
AI	11503	953	1.04	0.22		56	6.0	1600	90
AIGEN	11490	857	1.04	0.09		56	6.0	1600	90
FCCT	11387	1066	1.03	-0.20		78	1.0	1437	113
ECCT	10522	1066	0.95	-0.58	0.001	55	1.0	1422	137
LZYRIR	10706	970	0.97	-0.47	0.001	39	5.0	1357	85
LZYH5	10420	2203	0.94	-0.30	0.001	39	1.0	1282	92
LZYPIC	10554	1014	0.95	-0.58	0.001	40	5.0	1299	85
LZYAI	10610	928	0.96	-0.52	0.001	40	6.0	1358	92
LZYAIG	10643	1064	0.96	-0.53	0.001	40	1.0	1343	93
LZYFC	11080	1110	1.00	-0.03		45	5.0	1294	94
LZYEC	10310	1057	0.93	-0.81	0.001	39	1.0	1290	116

Table 29. Results of the HTTPS/2 tests with emulated mobile client (MOBI), encryption, but no compression.

Technique	D-med.	D-eff.	D-p<	M-med.	M-eff.	M-p<
BASE	3690	0.00		10816	0.00	
SHA2	3869	-0.01		11408	0.58	
SHA3	4005	0.30		11528	0.69	
SHA10	5188	1.32		11649	1.04	
TRREF	4858	0.00		14300	0.00	
MIN	3639	-1.48	0.001	10604	-4.30	0.001
CAT	4647	-0.61	0.001	14236	-0.09	
MINCAT	3480	-1.97	0.001	10360	-4.42	0.001
UGREF	3652	0.00		11064	0.00	
SPRITE	3583	-0.05		10677	-0.17	0.001
SYMFO	4498	0.64		10759	-0.34	0.001
RIREF	3838	0.00		11094	0.00	
H5PIC	3768	-0.04		10584	-0.65	0.001
PIC	4026	0.18		11334	-0.12	
AI	3805	0.14		11503	0.22	
AIGEN	4034	0.28		11490	0.09	
FCCT	4060	0.23		11387	-0.20	
ECCT	3762	-0.19		10522	-0.58	0.001
LZYRIR	3659	-0.16	0.005	10706	-0.47	0.001
LZYH5	3581	-0.27	0.001	10420	-0.30	0.001
LZYPIC	3660	-0.28	0.001	10554	-0.58	0.001
LZYAI	3540	-0.37	0.001	10610	-0.52	0.001
LZYAIG	3694	-0.11	0.05	10643	-0.53	0.001
LZYFC	3767	-0.09		11080	-0.03	
LZYEC	3569	-0.41	0.001	10310	-0.81	0.001

Table 30. Comparison of the HTTPS/2 tests with encryption, but no compression (D=DESK, M=MOBI).

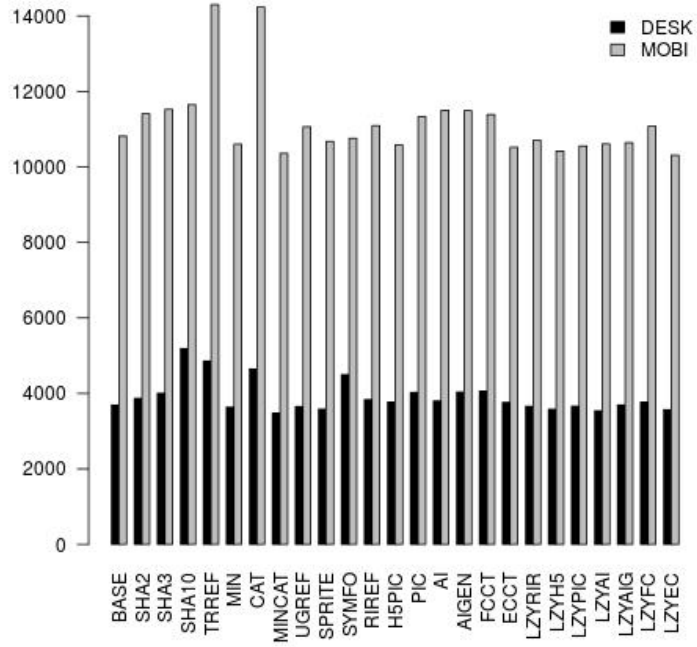


Table 31. Comparison of the median HTTPS/2 load times with encryption, but no compression.