

	KEM	SA	Handshakes [1/s]		Cost [ms]		Packets		Server Library Distribution			Client Library Distribution		
			Blackbox	Whitebox	Server	Client	Server	Client						
Level $\leq 2$	X25519	dilithium2	401	414	2.1	1.9	5	1	58.98	25.13	7.84	48.86	32.10	8.70
	X25519	dilithium2_aes	390	375	2.1	1.8	5	1	55.55	27.57	9.05	49.15	32.44	9.06
	X25519	falcon512	340	345	2.7	2.1	2	1	68.06	19.23	6.96	52.32	31.54	8.26
	X25519	p256_dilithium2	355	386	2.3	2.7	5	1	58.04	24.53	8.25	58.53	26.19	6.76
	X25519	p256_falcon512	287	300	2.9	2.7	2	1	68.80	17.80	7.52	63.77	22.85	6.65
	X25519	p256_sphincs128	51	51	29.4	6.2	26	1	96.86			77.91		13.37
	X25519	rsa:1024	435	501	2.1	1.6	1	1	57.85	24.99	8.65	45.65	34.75	9.50
	X25519	rsa:2048	315	339	3.8	2.0	1	1	77.86	13.10	7.77	43.61	34.78	9.14
	X25519	rsa:3072	193	203	7.9	2.1	2	1	88.46	7.34		47.61	35.37	8.66
	X25519	rsa:4096	115	120	15.4	2.5	2	1	94.86			47.70	34.66	7.65
	X25519	sphincs128	53	53	29.6	5.5	26	1	95.85			74.53		16.07
bikel1	dilithium2	212	221	2.2	6.5	6	2	49.23	29.13	13.45	74.87		11.48	7.60
bikel1	dilithium2_aes	212	229	2.1	6.4	6	2	46.64	28.55	13.91	75.66		10.51	10.14
bikel1	falcon512	202	202	2.8	6.6	4	2	62.62	19.70	10.25	72.82		13.81	9.70
bikel1	p256_dilithium2	199	210	2.3	7.1	7	2	51.22	28.32	11.46	68.29		19.45	8.07
bikel1	p256_falcon512	188	188	2.9	7.3	4	2	60.44	23.19	9.15	69.03		17.60	8.92
bikel1	p256_sphincs128	48	48	29.8	10.7	27	2	95.28			45.91	41.79		9.46
bikel1	rsa:1024	229	229	2.1	6.3	2	2	49.66	28.72	13.04	78.09		9.48	4.42
bikel1	rsa:2048	168	195	3.9	6.4	2	1	80.95	9.44		74.96		11.99	9.12
bikel1	rsa:3072	126	141	8.0	6.6	3	2	84.34	8.59		73.77		12.97	9.87
bikel1	rsa:4096	66	94	15.7	6.8	3	2	79.64	11.64		75.28		19.39	
bikel1	sphincs128	51	51	28.9	10.0	27	2	96.87			49.06	38.82		10.34
hqc128	dilithium2	389	429	2.2	2.4	9	2	49.44	24.76	17.20	32.30	30.47	27.60	7.91
hqc128	dilithium2_aes	398	434	2.1	2.3	9	2	45.14	27.11	18.05	31.62	31.52	27.71	7.01
hqc128	falcon512	358	371	2.8	2.5	6	2	59.42	18.91	14.04	35.59	28.99	27.33	6.51
hqc128	p256_dilithium2	336	378	2.4	3.0	9	2	49.25	24.06	16.10	46.37	24.05	20.86	7.24
hqc128	p256_falcon512	303	321	3.0	3.2	6	2	60.55	18.47	13.09	48.30	22.31	20.93	6.21
hqc128	p256_sphincs128	51	50	29.5	6.5	30	2	96.15			70.45		13.82	9.40
hqc128	rsa:1024	435	536	2.1	2.0	5	2	47.60	25.16	18.81	34.00	27.77	27.23	8.04
hqc128	rsa:2048	323	368	3.8	2.2	5	1	71.65	13.69	7.72	31.51	30.08	28.59	7.21
hqc128	rsa:3072	200	183	8.2	2.4	6	2	83.19	7.46		34.65	28.35	27.15	6.51
hqc128	rsa:4096	116	119	15.8	2.9	6	2	92.91			33.56	28.79	25.88	6.21
hqc128	sphincs128	53	53	29.6	5.7	30	2	95.43			67.93		16.09	12.34
kyber512	dilithium2	460	463	1.9	1.8	6	1	51.06	26.82	11.56	39.87	34.72	14.23	8.76
kyber512	dilithium2_aes	470	489	1.8	1.7	6	1	50.84	27.57	12.16	38.16	37.39	14.14	7.61
kyber512	falcon512	353	362	2.6	1.9	3	1	63.36	20.24	8.86	43.09	34.13	13.56	7.11
kyber512	p256_dilithium2	383	393	2.1	2.5	6	1	53.02	26.95	11.06	55.28	24.91	8.82	7.49
kyber512	p256_falcon512	300	311	2.8	2.6	3	1	63.05	20.11	8.06	57.41	23.19	9.26	9.19
kyber512	p256_sphincs128	50	50	29.7	6.0	27	1	94.71			75.73		12.41	
kyber512	rsa:1024	447	455	1.9	1.6	2	1	51.05	26.64	12.05	38.12	33.77	16.27	8.89
kyber512	rsa:2048	303	304	3.6	1.7	2	1	75.25	14.43	5.81	37.42	37.07	14.60	8.52
kyber512	rsa:3072	187	190	7.8	2.0	2	1	87.88	7.34		37.84	34.32	14.71	7.71
kyber512	rsa:4096	112	113	15.4	2.3	2	1	94.44			43.90	30.43	14.56	8.11
kyber512	sphincs128	52	52	29.6	5.1	27	1	95.30			75.70		16.27	
kyber90s12	dilithium2	466	477	1.9	1.7	6	1	54.09	26.55	9.86	41.73	36.04	11.68	8.17
kyber90s12	dilithium2_aes	478	489	1.8	1.7	6	1	52.45	27.52	10.26	39.59	36.92	12.98	8.17
kyber90s12	falcon512	361	370	2.6	1.8	3	1	63.86	19.84	7.65	45.35	33.48	11.40	7.21
kyber90s12	p256_dilithium2	392	392	2.1	2.4	6	1	53.07	27.57	9.76	56.37	25.92	8.19	6.61
kyber90s12	p256_falcon512	286	314	2.7	2.5	3	1	63.90	20.35	7.85	59.86	23.93	7.96	6.41
kyber90s12	p256_sphincs128	50	50	29.5	5.8	27	1	95.49			78.74		14.78	
kyber90s12	rsa:1024	451	471	1.9	1.5	2	1	52.68	28.28	9.98	38.65	36.62	12.90	9.25
kyber90s12	rsa:2048	307	311	3.6	1.7	2	1	77.29	13.67	5.41	37.88	36.98	12.93	8.43
kyber90s12	rsa:3072	188	193	7.7	1.9	2	1	88.41	6.51		46.56	31.23	9.66	7.11
kyber90s12	rsa:4096	114	114	15.3	2.2	2	1	94.74			47.26	32.62	8.70	7.01
kyber90s12	sphincs128	52	52	29.6	5.3	27	1	95.50			72.58		15.71	
p256	dilithium2	396	419	2.3	2.1	5	1	57.35	24.25	7.76	50.01	31.32	8.48	8.16
p256	dilithium2_aes	406	435	2.2	2.0	5	1	57.84	23.73	7.87	49.14	31.62	8.98	8.11
p256	falcon512	312	328	2.9	2.2	2	1	66.92	17.98	6.60	53.75	28.59	8.17	6.61
p256	p256_dilithium2	355	347	2.5	2.8	5	1	59.32	23.78	7.77	58.83	23.38	7.66	5.81
p256	p256_falcon512	273	289	3.1	2.9	3	1	65.71	19.82	6.66	58.59	25.35	7.35	6.81
p256	p256_sphincs128	51	51	29.6	6.2	26	1	96.74			76.64		12.88	
p256	rsa:1024	404	409	2.3	1.8	1	1	59.17	23.55	7.76	46.85	31.51	9.87	9.18
p256	rsa:2048	301	325	3.9	2.1	1	1	77.46	12.98	6.41	45.95	34.13	8.83	8.59
p256	rsa:3072	186	201	8.0	2.3	2	1	90.10	5.71		47.55	32.61	8.17	9.91
p256	rsa:4096	113	118	15.6	2.6	2	1	94.99			51.72	31.36	7.97	7.10
p256	sphincs128	53	53	29.8	5.5	26	1	95.50			77.38		15.04	
p256_bikel1	dilithium2	189	211	2.6	6.9	7	1	54.58	24.62	11.46	70.24		15.62	9.17
p256_bikel1	dilithium2_aes	189	213	2.5	6.8	7	2	52.79	26.21	11.66	71.35		15.12	9.23
p256_bikel1	falcon512	172	188	3.2	7.0	4	2	61.58	20.95	8.67	69.03		16.71	10.01
p256_bikel1	p256_dilithium2	179	196	2.8	7.5	7	2	56.88	23.34	11.36	64.25		23.96	7.39
p256_bikel1	p256_falcon512	144	175	3.4	7.6	4	2	61.82	19.12	8.86	62.64		23.50	8.68
p256_bikel1	p256_sphincs128	48	47	29.7	11.0	27	2	96.16			50.08	38.00		9.25
p256_bikel1	rsa:1024	174	213	2.6	6.7	2	2	55.22	22.83	11.16	71.92		14.17	9.97
p256_bikel1	rsa:2048	181	181	4.3	6.9	2	1	72.41	15.68	6.61	71.36		13.87	9.88
p256_bikel1	rsa:3072	119	133	8.4	7.0	3	2	86.19	7.51		66.58		18.42	10.41
p256_bikel1	rsa:4096	63	65	16.2	7.2	3	2	90.58	5.81		53.48	28.10	13.65	
p256_bikel1	sphincs128	50	50	29.7	10.4	27	2	95.94			45.38	42.57		7.34
p256_hqc128	dilithium2	331	362	2.7	2.8	9	1	53.08	20.58	15.17	39.56	24.95	23.76	9.34
p256_hqc128	dilithium2_aes	363	307	2.7	2.7	9	1	51.89	23.41	15.37	38.46	26.03	24.63	8.21
p256_hqc128	falcon512	316	331	3.3	3.0	6	2	62.03	16.96	12.18	41.73	24.33	23.99	7.01
p256_hqc128	p256_dilithium2	295	321	2.8	3.4	9	2	54.94	21.40	14.55	51.92	20.07	18.63	7.91
p256_hqc128	p256_falcon512	289	285	3.4	3.6	6	2	62.34	18.05	11.66	48.97	21.66	20.05	7.11
p256_hqc128	p256_sphincs128	50	50	29.9	6.8	30	2	95.84			71.16		14.08	9.94
p256_hqc128	rsa:1024	364	418	2.6	2.5	5	2	52.93	21.32	15.47	36.32	27.43	25.55	8.82
p256_hqc128	rsa:2048	299	328	4.3	2.7	5	2	73.17	12.98	9.00	38.08	26.41	25.95	7.61
p256_hqc128	rsa:3072	187	196	8.4	3.0	6	2	88.50	5.31		35.50	28.09	27.11	7.70
p256_hqc128	rsa:4096	112	115	16.1	3.3	6	2	92.46			41.35	27.44	22.73	6.41
p256_hqc128	sphincs128	52	52	30.0	6.1	30	2	95.67			65.16		17.49	11.62
p256_kyber512	dilithium2	375	346	2.4	2.2	6	1	56.29	23.76	10.07	49.15	27.96	11.14	9.48
p256_kyber512	dilithium2_aes	378	389	2.3	2.2	6	1	54.24	24.43	11.07	45.06	30.44	12.48	9.40
p256_kyber512	falcon512	300	307	3.0	2.3									