	KEM	SA	Handsha		Cost			kets	Server Library Distribution	Client Library Distribution
Level 3	bikel3	dilithium3	Blackbox	Whitebox 110	Server 2.8	Client 16.2	Server 10	Client	47.19 26.11 15.60 	80.53 9.56.4
∟evei 3	bikel3	dilithium3_aes	110 111	110	2.5	16.0	10	3	46.78 29.08 17.214.8	81.76 10.14.8
	bikel3 bikel3	p384_dilithium3 p384_sphincs192	83 29	82 29	6.0 50.2	21.9 27.7	10 55	3 2	78.83 11.96.9	54.81 32.69 7.04.7 46.75 42.59 6.0
	bikel3	rsa:2048 rsa:4096	104	103	4.2 15.7	15.9 16.3	4	3	70.53 12.9 12.0 1 94.07	83.42 9.67 80.40 9.3 6 .7
	bikel3 bikel3	sphincs192	105 35	104 34	47.3	22.0	4 55	2 3	96.36	61.85 23.23 7.6
	hqc192 hqc192	dilithium3 dilithium3 aes	303 307	340 325	2.9 2.8	3.3 3.1	14 14	3 3	45.86 24.46 21.85 5.7 43.02 25.64 23.88 5.7	40.42 31.18 20.79 5.5 41.83 28.80 20.286.5
	hqc192	p384_dilithium3	126	137	6.3	9.1	14	4	73.40 11.9¶0.54	70.31 15.539.63
	hqc192 hqc192	p384_sphincs192 rsa:2048	27 307	26 321	51.0 4.3	14.2 3.0	59 8	4 3	95.36	82.15 7.76.5 44.22 24.47 21.77 7.0
	hqc192 hqc192	rsa:4096 sphincs192	112 34	117 34	16.0 47.3	3.6 8.7	9 59	4 4	90.61	37.94 29.21 25.60 5.9 63.34 21.12 1.93
	kyber768	dilithium3	405	415	2.2	2.0	8	1	54.59 24.94 11.96.1	43.04 33.43 13.92 .4
	kyber768 kyber768	dilithium3_aes p384 dilithium3	386 122	450 138	2.0 5.7	1.9 7.7	8 8	2 2	50.67 25.90 12.76 .6 78.28 12.5 4 .	38.52 35.45 15.847.84 81.20 10.34
	kyber768	p384_sphincs192	27	27	50.0	12.8	53 2	2 2	97.07 72.54 15.186.6	89.88 6.6 4 37.43 35.08 16.12 8.8 3
	kyber768 kyber768	rsa:2048 rsa:4096	299 111	258 113	3.8 15.3	1.7 2.3	3	2	95.05	44.99 32.74 12.0\$.22
	kyber768 kyber90s768	sphincs192 dilithium3	34 417	34 435	46.5 2.1	7.3 2.0	53 8	2 1	97.18 57.73 24.44 9.56.2	71.51 19.35 \$.(46.30 31.88 11.2 7.0 ()
	kyber90s768	dilithium3_aes	455	450	2.0	1.8	8	2	55.10 26.60 9.4 2 .1	42.11 35.05 11.47.6
	kyber90s768 kyber90s768	p384_dilithium3 p384_sphincs192	122 27	139 27	5.7 49.9	7.8 13.0	8 53	2 2	96.07	88.57 6.2
	kyber90s768 kyber90s768	rsa:2048 rsa:4096	280 113	304 114	3.7 15.3	1.8 2.3	2 3	2 2	74.49 13.8 2 5.5	39.78
	kyber90s768	sphincs192	34	34	46.9	7.1	53	2	96.75	73.89 17.81
	p384 p384	dilithium3 dilithium3_aes	111 110	124 127	8.7 8.4	8.3 8.1	7 7	1 1	85.48 7.99 86.60 8.44	84.57 10.01 85.29 9.22
	p384 p384	p384_dilithium3 p384_sphincs192	79 23	90 23	11.9 57.4	14.0 19.0	7 52	1 1	84.70 9.90 9	90.93 5.4 91.37 6.0
	p384	rsa:2048	102	117	10.1	8.1	1	1	89.85 5.7	85.22 8.42
	p384 p384	rsa:4096 sphincs192	51 28	50 28	21.9 53.3	8.4 13.8	2 52	1 1	96.36 96.96	86.39 8.34 85.65 7.91
	p384_bikel3 p384_bikel3	dilithium3 dilithium3_aes	62 60	63 66	9.1 8.9	22.7 22.5	10 10	2	84.49 8.05. (84.91 8.3 5	57.23 31.85 7.46 57.21 31.65 7.24
	p384_bikel3	p384_dilithium3	54	55	12.6	28.5	10	3	86.99 7.51	46.40 44.56 5.5
	p384_bikel3 p384_bikel3	p384_sphincs192 rsa:2048	25 53	25 59	56.6 10.9	33.4 22.4	55 4	3 3	96.46 83.71 8.7\$.4	51.63 39.98 5.1 60.36 29.36 7.0 (
	p384_bikel3 p384_bikel3	rsa:4096 sphincs192	61 29	63 29	22.6 53.8	22.8 28.0	4 55	3	89.28 4.8 9 5.73	55.96 32.36 7.35 47.63 42.10 6.3
	p384_blkel3 p384_hqc192	dilithium3	29 88	112	9.4	9.7	14	3 4	82.96 7.47.1	73.96 14.467.0
	p384_hqc192 p384_hqc192	dilithium3_aes p384_dilithium3	100 74	113 84	9.4 12.9	9.6 15.5	14 14	4 4	81.95 7.96.7 (86.14 6.2	74.57 13.83 0
	p384_hqc192	p384_sphincs192	22	23	57.5	20.6	59	4	95.99	85.84 6......
	p384_hqc192 p384_hqc192	rsa:2048 rsa:4096	100 63	118 62	10.9 22.8	9.4 9.9	8 9	3 4	83.34 7.06.0 87.65 5.8	74.32 13.64.94
	p384_hqc192 p384_kyber768	sphincs192 dilithium3	28 108	28 117	53.5 8.8	14.9 8.5	59 8	4 2	96.30 86.53 7.18	78.23 11.3 6 .71 84.11 8.32
	p384_kyber768	dilithium3_aes	109	118	8.6	8.4	8	2	85.70 7.8	84.36 8.92
	p384_kyber768 p384_kyber768	p384_dilithium3 p384_sphincs192	78 23	82 23	12.1 56.7	14.4 19.6	8 53	2 2	90.21 5.() 96.52	87.81 6.0 88.39 8.04
	p384_kyber768 p384_kyber768	rsa:2048 rsa:4096	97 48	103 48	10.3 22.1	8.3 8.6	2	2	92.00 94.93	81.57 8.14. 82.86 9.04. 7
	p384_kyber768	sphincs192	28	28	53.5	13.9	53	2	96.92	87.52 7.5 (
Level 5	hqc256 hqc256	dilithium5 dilithium5_aes	225 249	257 265	3.7 3.4	4.7 4.4	19 19	6 6	42.89 31.00 18.74 5.6 40.85 33.39 18.60 5.5	50.40 27.75 14.605.3 52.66 24.98 14.455.5
	hqc256 hqc256	falcon1024	242	226				_		
		n521 dilithiumE	67		4.9 11 7	4.8 17.6	15 20	5 6	57.82 22.52 13.3 . 5.2 83.70 8.5 . 5.5	49.99 29.26 14.65 4.7
5.	hqc256	p521_dilithium5 p521_falcon1024	67 61	67 61	11.7 12.9	17.6 17.7	20 15	6 6	83.70 8.55.1 82.77 7.47.1	49.99 29.26 14.654.1 78.87 12.44.1 79.53 13.36
	hqc256 hqc256 hqc256	. –		67	11.7	17.6	20	6	83.70 \$.5\$.\$ 82.77 7.4\$.1\$ 97.79 56.38 25.40 12.93	49.99 29.26 14.654.1 78.87 12.44.5 79.53 13.36 76.37 12.76.5 57.08 19.08 16.58\$.3
	hqc256 hqc256 hqc256	p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096	61 13 252 110	67 61 14 292 112	11.7 12.9 111.6 4.9 16.6	17.6 17.7 24.1 4.1 4.8	20 15 83 12 13	6 6 5 6	83.70 \$.55.5 82.77 7.47.1 9 97.79 88.69 6.1	49.99 29.26 14.654.1 78.87 12.44.5 79.53 13.36 76.37 12.78.5 57.08 19.08 16.585.3 51.11 22.41 19.86 \$.3
	hqc256 hqc256 hqc256 hqc256 kyber1024	p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256 dilithium5	61 13 252 110 17 384	67 61 14 292 112 18 398	11.7 12.9 111.6 4.9 16.6 104.1 2.4	17.6 17.7 24.1 4.1 4.8 10.8 2.4	20 15 83 12 13 83	6 6 6 5 6 6 2	83.70 \$.5\$.\$ 82.77 7.47.1\$ 97.79 56.38 25.40 12.93 88.69 6.1 96.45 56.19 23.38 12.026.1	49.99 29.26 14.65 1 78.87 12.44 1 79.53 13.36 1 76.37 12.76 1 57.08 19.08 16.58 51.11 22.41 19.86 3 53.70 26.47 12.45 49.22 27.75 12.97 3
	hqc256 hqc256 hqc256 hqc256	p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256	61 13 252 110 17	67 61 14 292 112 18	11.7 12.9 111.6 4.9 16.6 104.1	17.6 17.7 24.1 4.1 4.8 10.8	20 15 83 12 13 83	6 6 5 6 6	83.70 \$.5\$.5 82.77 7.47.11 97.79 56.38 25.40 2.93 88.69 96.45 56.19 23.38 2.025.1 51.65 25.71 12.95.7 70.76 15.627.55.0	49.99 29.26 14.65 1 78.87 12.44 1 79.53 13.36 1 76.37 12.76 1 57.08 19.08 16.58 51.11 22.41 19.86 4 53.70 26.47 12.45 1 49.22 27.75 12.97 3 44.47 30.94 14.75 2 49.26 28.60 13.26 1
	hqc256 hqc256 hqc256 hqc256 kyber1024 kyber1024 kyber1024 kyber1024	p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256 dilithium5 dilithium5_aes falcon1024 p521_dilithium5	61 13 252 110 17 384 429 270 107	67 61 14 292 112 18 398 404 278 107	11.7 12.9 111.6 4.9 16.6 104.1 2.4 2.2 3.7 10.4	17.6 17.7 24.1 4.1 4.8 10.8 2.4 2.1 2.5 14.9	20 15 83 12 13 83 12 11 5	6 6 5 6 6 2 2 1 2	83.70 \$.5\$.5 82.77 7.4\$.1\$ 97.79 56.38 25.40 \$12.93 88.69 6.1 96.45 56.19 23.38 \$12.0\$.1 51.65 25.71 \$12.9\$.7 70.76 \$15.62\$.5\$.0 90.55 \$.2	49.99 29.26 14.654.1 78.87 12.44.5 79.53 13.36 76.37 12.76.5 57.08 19.08 16.58\$.3 51.11 22.41 19.86 \$.4 53.70 26.47 12.45 49.22 27.75 12.97.31 44.47 30.94 14.757.20 49.26 28.60 13.205.1 90.90
	hqc256 hqc256 hqc256 hqc256 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024	p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256 dilithium5 dilithium5_aes falcon1024 p521_dilithium5 p521_falcon1024 p521_sphincs256	61 13 252 110 17 384 429 270 107 57	67 61 14 292 112 18 398 404 278 107 55	11.7 12.9 111.6 4.9 16.6 104.1 2.4 2.2 3.7 10.4 12.0 111.6	17.6 17.7 24.1 4.1 4.8 10.8 2.4 2.1 2.5 14.9 15.2 20.8	20 15 83 12 13 83 12 11 5 12 5 74	6 6 5 6 6 2 2 1 2 2 2	83.70 \$.5\$.5 82.77 7.47.11 97.79 25.40 2.93 88.69 6.1 96.45 56.19 23.38 2.02.11 51.65 25.71 12.94.71 70.76 15.627.55.0 90.55 5.4 88.10 6.0 97.41 97.41	49.99 29.26 14.654.1 78.87 12.44.5 79.53 13.36 76.37 12.78.5 57.08 19.08 16.585.3 51.11 22.41 19.86 5.4 53.70 26.47 12.45 49.22 27.75 12.97.31 44.47 30.94 14.75.24 49.26 28.60 13.26.1 90.90 91.91 5.3 88.55 6.94
	hqc256 hqc256 hqc256 hqc256 kyber1024 kyber1024 kyber1024 kyber1024	p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256 dilithium5 dilithium5_aes falcon1024 p521_dilithium5 p521_falcon1024	61 13 252 110 17 384 429 270 107 57	67 61 14 292 112 18 398 404 278 107 55	11.7 12.9 111.6 4.9 16.6 104.1 2.4 2.2 3.7 10.4 12.0	17.6 17.7 24.1 4.1 4.8 10.8 2.4 2.1 2.5 14.9 15.2	20 15 83 12 13 83 12 11 5 12 5	6 6 5 6 6 2 2 1 2 2	83.70 \$.5\$.5 82.77 7.47.11 97.79 3 56.38 25.40 12.93 88.69 6.1 96.45 56.19 23.38 12.045.1 51.65 25.71 12.945.7 70.76 15.627.55.0 90.55 5.4 88.10 6.0 97.41 75.16 94.16 14.06.5	49.99 29.26 14.65 78.87 12.4€.\$ 79.53 13.36 76.37 12.7€.5 57.08 19.08 16.585.3 51.11 22.41 19.86 \$.3 53.70 26.47 12.45 49.22 27.75 12.97.3 44.47 30.94 14.75/.20 49.26 28.60 13.206.1 90.90 1 91.91 \$.3 88.55 6.94 33.71 32.50 19.56 \$.57 43.46 30.71 12.76.74.4
	hqc256 hqc256 hqc256 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024	p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256 dilithium5 dilithium5_aes falcon1024 p521_dilithium5 p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256	61 13 252 110 17 384 429 270 107 57 13 292 99 17	67 61 14 292 112 18 398 404 278 107 55 14 293 113 18	11.7 12.9 111.6 4.9 16.6 104.1 2.4 2.2 3.7 10.4 12.0 111.6 3.8 15.3 102.1	17.6 17.7 24.1 4.1 4.8 10.8 2.4 2.1 2.5 14.9 15.2 20.8 1.9 2.4 8.2	20 15 83 12 13 83 12 11 5 12 5 74 2 3 74	6 6 5 6 6 2 2 1 2 2 2 2	83.70 \$.5\$.5 82.77 7.47.11 97.79 56.38 25.40 88.69 96.45 56.19 51.65 70.76 88.10	49.99 29.26 14.654.1 78.87 12.44.4 79.53 13.36 76.37 12.78.5 57.08 19.08 16.585.3 51.11 22.41 19.86 \$.3 53.70 26.47 12.45 49.22 27.75 12.97.31 44.47 30.94 14.757.20 49.26 28.60 13.205.11 90.90 91.91 \$.3 88.55 6.941 33.71 32.50 19.56 \$.57 43.46 30.71 12.78.74.4 71.81 20.12 \$.2
	hqc256 hqc256 hqc256 hqc256 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber90s1024	p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256 dilithium5 dilithium5_aes falcon1024 p521_dilithium5 p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256 dilithium5 dilithium5_aes	61 13 252 110 17 384 429 270 107 57 13 292 99 17 403 429	67 61 14 292 112 18 398 404 278 107 55 14 293 113 18 394 449	11.7 12.9 111.6 4.9 16.6 104.1 2.4 2.2 3.7 10.4 12.0 111.6 3.8 15.3 102.1 2.3 2.1	17.6 17.7 24.1 4.1 4.8 10.8 2.4 2.1 2.5 14.9 15.2 20.8 1.9 2.4 8.2 2.3 2.0	20 15 83 12 13 83 12 11 5 12 5 74 2 3 74 12 12	6 6 6 5 6 6 2 2 1 2 2 2 2 2 2 2	83.70 \$.5\$.\$ 82.77 7.47.1\$ 97.79 25.40 2.93 88.69 6.1 96.45 56.19 23.38 2.045.1 51.65 25.71 2.945.7 70.76 15.627.55.0 90.55 5.4 88.10 6.0 97.41 4.065.5 94.16 98.48 57.53 24.81 9.35.8 54.80 26.25 10.5\$.1	49.99 29.26 14.654.1 78.87 12.44.4 79.53 13.36 76.37 12.78.5 57.08 19.08 16.585.3 51.11 22.41 19.86 \$.3 53.70 26.47 12.45 49.22 27.75 12.97.31 44.47 30.94 14.75.20 49.26 28.60 13.206.1 90.90 91.91 \$.3 88.55 6.94 33.71 32.50 19.56 \$.57 43.46 30.71 12.78.74.4 71.81 20.12 \$.2 50.91 28.57 10.86.84 45.70 32.34 12.76.66
	hqc256 hqc256 hqc256 hqc256 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024 kyber1024	p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256 dilithium5 dilithium5_aes falcon1024 p521_dilithium5 p521_falcon1024 p521_sphincs256 rsa:2048 rsa:4096 sphincs256 dilithium5	61 13 252 110 17 384 429 270 107 57 13 292 99 17 403	67 61 14 292 112 18 398 404 278 107 55 14 293 113 18 394	11.7 12.9 111.6 4.9 16.6 104.1 2.4 2.2 3.7 10.4 12.0 111.6 3.8 15.3 102.1 2.3	17.6 17.7 24.1 4.1 4.8 10.8 2.4 2.1 2.5 14.9 15.2 20.8 1.9 2.4 8.2 2.3	20 15 83 12 13 83 12 11 5 12 5 74 2 3 74 12	6 6 6 5 6 6 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	83.70 \$.5\$.5 82.77 7.47.11 97.79 56.38 88.69 6.1 96.45 23.38 12.026.1 51.65 25.71 12.95.71 70.76 15.627.55.0 6.0 90.55 \$.4 88.10 6.0 97.41 75.16 14.06.51 94.16 98.48 57.53 24.81 9.35.5 54.80 26.25 10.5\$.11 69.56 16.636.24.1 90.81	49.99 29.26 14.654.1 78.87 12.44.9 79.53 13.36 76.37 12.76.5 57.08 19.08 16.585.3 51.11 22.41 19.86 \$.3 53.70 26.47 12.45 49.22 27.75 12.97.31 44.47 30.94 14.757.24 49.26 28.60 13.206.1 90.90 91.91 \$.3 88.55 6.91 33.71 32.50 19.56 \$.57 43.46 30.71 12.78.74.4 71.81 20.12 \$.2 50.91 28.57 10.86.81 45.70 32.34 12.76.61 54.38 28.98 9.9\$.2 90.93 \$.41
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