

	DHS2	DOS	POE	POEBVA
D	0.9917	0.9845	0.9955	0.9932
F	0.9893	0.9944	0.9979	0.9979
H	0.9870	0.9978	0.9993	0.9994
I	0.9904	0.9978	0.9992	0.9992
J	0.9890	0.9909	0.9972	0.9968
K	0.9703	0.9809	0.9920	0.9926
O	0.9860	0.9969	0.9991	0.9990
P	0.9821	0.9948	0.9985	0.9981
Q	0.9874	0.9960	0.9975	0.9971
R	0.9851	0.9983	0.9994	0.9993
U	0.9860	0.9960	0.9981	0.9978
W	0.8327	0.9848	0.9864	0.9868
W2	0.9883	0.9931	0.9965	0.9947
X	0.7068	0.9709	0.9708	0.9814
X2	0.9836	0.9864	0.9896	0.9875
Z	0.4822	0.9812	0.9873	0.9892
1A	0.7345	0.8780	0.8930	0.8941
1B	0.9610	0.9631	0.9773	0.9755
1C	0.9908	0.9969	0.9988	0.9988
1D	0.9683	0.9796	0.9873	0.9933
1E	0.9748	0.9731	0.9880	0.9870
1F	0.9899	0.9942	0.9974	0.9978
1G	0.9526	0.9887	0.9953	0.9957
1H	0.9905	0.9974	0.9989	0.9993
1I	0.9782	0.9920	0.9962	0.9958
1J	0.9539	0.9932	0.9976	0.9975
1K	0.9886	0.9962	0.9990	0.9986
1L	0.9446	0.9935	0.9963	0.9954
1M	0.9907	0.9994	0.9996	0.9997
1N	0.6580	0.9100	0.8999	0.9011
1O	0.9910	0.9994	0.9996	0.9997
1P	0.9890	0.9985	0.9993	0.9988
1Q	0.9554	0.9957	0.9983	0.9969

Table 1: TAR at a FAR of 0.0001

	DHS2	DOS	POE	POEBVA
D	0.9987	0.9950	0.9988	0.9987
F	0.9968	0.9985	0.9995	0.9996
H	0.9932	0.9996	0.9997	0.9999
I	0.9985	0.9996	0.9997	0.9997
J	0.9928	0.9967	0.9990	0.9986
K	0.9904	0.9933	0.9976	0.9975
O	0.9915	0.9989	0.9995	0.9996
P	0.9866	0.9973	0.9991	0.9989
Q	NA	NA	NA	NA
R	0.9933	0.9997	0.9997	0.9998
U	0.9928	0.9986	0.9993	0.9992
W	0.8646	0.9952	0.9973	0.9970
W2	0.9950	0.9982	0.9992	0.9987
X	0.8583	0.9901	0.9925	0.9946
X2	0.9930	0.9975	0.9984	0.9973
Z	0.5202	0.9955	0.9978	0.9977
1A	0.8208	0.9513	0.9631	0.9609
1B	0.9892	0.9842	0.9942	0.9939
1C	0.9949	0.9990	0.9994	0.9997
1D	0.9905	0.9937	0.9968	0.9973
1E	0.9935	0.9884	0.9965	0.9959
1F	0.9944	0.9984	0.9994	0.9993
1G	0.9944	0.9984	0.9994	0.9993
1H	0.9944	0.9993	0.9995	0.9999
1I	0.9917	0.9969	0.9987	0.9983
1J	0.9595	0.9962	0.9983	0.9987
1K	0.9964	0.9991	0.9996	0.9996
1L	0.9601	0.9989	0.9991	0.9992
1M	0.9950	0.9999	0.9997	0.9999
1N	NA	NA	NA	NA
1O	0.9958	0.9999	0.9997	0.9999
1P	0.9940	0.9997	0.9996	0.9997
1Q	0.9641	0.9988	0.9993	0.9990

Table 2: TAR at a FAR of 0.01

	DHS2	DOS	POE	POEBVA
D	0.0083	0.0155	0.0045	0.0068
F	0.0107	0.0056	0.0021	0.0021
H	0.0130	0.0022	0.0007	0.0006
I	0.0096	0.0022	0.0008	0.0008
J	0.0110	0.0091	0.0028	0.0032
K	0.0297	0.0191	0.0080	0.0074
O	0.0140	0.0031	0.0009	0.0010
P	0.0179	0.0052	0.0015	0.0019
Q	0.0126	0.0040	0.0025	0.0029
R	0.0149	0.0017	0.0006	0.0007
U	0.0140	0.0040	0.0019	0.0022
W	0.1673	0.0152	0.0136	0.0132
W2	0.0117	0.0069	0.0035	0.0053
X	0.2932	0.0291	0.0292	0.0186
X2	0.0164	0.0136	0.0104	0.0125
Z	0.5178	0.0188	0.0127	0.0108
1A	0.2655	0.1220	0.1070	0.1059
1B	0.0390	0.0369	0.0227	0.0245
1C	0.0092	0.0031	0.0012	0.0012
1D	0.0317	0.0204	0.0127	0.0067
1E	0.0252	0.0269	0.0120	0.0130
1F	0.0101	0.0058	0.0026	0.0022
1G	0.0474	0.0113	0.0047	0.0043
1H	0.0095	0.0026	0.0011	0.0007
1I	0.0218	0.0080	0.0038	0.0042
1J	0.0461	0.0068	0.0024	0.0025
1K	0.0114	0.0038	0.0010	0.0014
1L	0.0554	0.0065	0.0037	0.0046
1M	0.0093	0.0006	0.0004	0.0003
1N	0.3420	0.0900	0.1001	0.0989
1O	0.0090	0.0006	0.0004	0.0003
1P	0.0110	0.0015	0.0007	0.0012
1Q	0.0446	0.0043	0.0017	0.0031

Table 3: FRR at a FAR of 0.0001

	DHS2	DOS	POE	POEBVA
D	0.0013	0.0050	0.0012	0.0013
F	0.0032	0.0015	0.0005	0.0004
H	0.0068	0.0004	0.0003	0.0001
I	0.0015	0.0004	0.0003	0.0003
J	0.0072	0.0033	0.0010	0.0014
K	0.0096	0.0067	0.0024	0.0025
O	0.0085	0.0011	0.0005	0.0004
P	0.0134	0.0027	0.0009	0.0011
Q	NA	NA	NA	NA
R	0.0067	0.0003	0.0003	0.0002
U	0.0072	0.0014	0.0007	0.0008
W	0.1354	0.0048	0.0027	0.0030
W2	0.0050	0.0018	0.0008	0.0013
X	0.1417	0.0098	0.0075	0.0054
X2	0.0070	0.0025	0.0016	0.0027
Z	0.4798	0.0045	0.0022	0.0023
1A	0.1792	0.0487	0.0369	0.0391
1B	0.0108	0.0158	0.0058	0.0061
1C	0.0051	0.0010	0.0006	0.0003
1D	0.0095	0.0063	0.0032	0.0027
1E	0.0065	0.0116	0.0035	0.0041
1F	0.0056	0.0016	0.0006	0.0007
1G	0.0377	0.0055	0.0024	0.0021
1H	0.0056	0.0007	0.0005	0.0001
1I	0.0083	0.0031	0.0013	0.0017
1J	0.0405	0.0038	0.0017	0.0013
1K	0.0036	0.0009	0.0004	0.0004
1L	0.0399	0.0011	0.0009	0.0008
1M	0.0050	0.0001	0.0003	0.0001
1N	NA	NA	NA	NA
1O	0.0042	0.0001	0.0003	<0.00002
1P	0.0060	0.0003	0.0004	0.0003
1Q	0.0359	0.0012	0.0007	0.0010

Table 4: FRR at a FAR of 0.01

	DHS2		DOS		POE		POEBVA	
	RI	LI	RI	LI	RI	LI	RI	LI
D	0.9450	0.9504	0.9630	0.9328	0.9755	0.9605	0.9746	0.9545
F	0.9624	0.9628	0.9767	0.9575	0.9833	0.9691	0.9832	0.9682
H	0.9608	0.9603	0.9919	0.9768	0.9924	0.9871	0.9939	0.9877
I	0.9699	0.9724	0.9892	0.9771	0.9895	0.9830	0.9906	0.9833
J	0.9545	0.9497	0.9667	0.9414	0.9739	0.9608	0.9776	0.9609
K	0.8758	0.8811	0.9394	0.8917	0.9518	0.9298	0.9497	0.9237
O	0.9593	0.9579	0.9883	0.9722	0.9901	0.9847	0.9914	0.9825
P	0.9463	0.9435	0.9811	0.9595	0.9843	0.9751	0.9860	0.9736
Q	0.9525	0.9604	0.9849	0.9748	0.9788	0.9724	0.9852	0.9725
R	0.9653	0.9690	0.9920	0.9791	0.9926	0.9877	0.9929	0.9880
U	0.9532	0.9577	0.9861	0.9723	0.9815	0.9754	0.9870	0.9758
W	0.7264	0.7241	0.9518	0.9123	0.9515	0.9289	0.9488	0.9286
W2	0.9541	0.9509	0.9701	0.9483	0.9756	0.9655	0.9699	0.9520
X	0.6963	0.6935	0.9496	0.9149	0.9560	0.9325	0.9591	0.9337
X2	0.9468	0.9391	0.9655	0.9407	0.9739	0.9550	0.9661	0.9462
Z	0.3921	0.4034	0.9509	0.9084	0.9559	0.9266	0.9603	0.9230
1A	0.5710	0.5803	0.7721	0.7055	0.7508	0.7118	0.7877	0.7241
1B	0.8607	0.8425	0.9207	0.8489	0.9249	0.8667	0.9280	0.8687
1C	0.9678	0.9638	0.9798	0.9649	0.9861	0.9762	0.9891	0.9735
1D	0.9335	0.9341	0.9637	0.9358	0.9702	0.9573	0.9754	0.9567
1E	0.8998	0.8735	0.9343	0.8766	0.9538	0.9170	0.9480	0.9045
1F	0.9575	0.9614	0.9785	0.9565	0.9810	0.9676	0.9822	0.9665
1G	0.8924	0.9010	0.9731	0.9527	0.9745	0.9552	0.9788	0.9588
1H	0.9639	0.9643	0.9800	0.9660	0.9842	0.9750	0.9869	0.9777
1I	0.9097	0.9239	0.9700	0.9540	0.9722	0.9552	0.9748	0.9499
1J	0.9049	0.9126	0.9822	0.9661	0.9818	0.9692	0.9855	0.9730
1K	0.9670	0.9653	0.9843	0.9675	0.9884	0.9828	0.9878	0.9758
1L	0.8767	0.8896	0.9779	0.9570	0.9774	0.9545	0.9759	0.9542
1M	0.9765	0.9797	0.9956	0.9874	0.9954	0.9931	0.9966	0.9918
1N	0.5286	0.5450	0.8522	0.7615	0.8142	0.7556	0.8246	0.7598
1O	0.9811	0.9822	0.9955	0.9866	0.9955	0.9928	0.9965	0.9924
1P	0.9668	0.9690	0.9922	0.9815	0.9887	0.9848	0.9923	0.9855
1Q	0.8978	0.9058	0.9787	0.9565	0.9823	0.9706	0.9806	0.9629

Table 5: Single Finger TAR at a FAR of 0.0001

	DHS2		DOS		POE		POEBVA	
	RI	LI	RI	LI	RI	LI	RI	LI
D	0.0550	0.0496	0.0370	0.0672	0.0245	0.0395	0.0254	0.0455
F	0.0376	0.0372	0.0233	0.0425	0.0167	0.0308	0.0168	0.0318
H	0.0392	0.0397	0.0081	0.0232	0.0076	0.0129	0.0061	0.0123
I	0.0301	0.0276	0.0108	0.0229	0.0105	0.0170	0.0094	0.0167
J	0.0455	0.0503	0.0333	0.0586	0.0261	0.0392	0.0224	0.0391
K	0.1242	0.1189	0.0606	0.1083	0.0482	0.0702	0.0503	0.0763
O	0.0407	0.0421	0.0117	0.0278	0.0099	0.0153	0.0086	0.0175
P	0.0537	0.0565	0.0189	0.0405	0.0157	0.0249	0.0140	0.0264
Q	0.0475	0.0396	0.0151	0.0252	0.0212	0.0276	0.0148	0.0275
R	0.0347	0.0310	0.0080	0.0209	0.0074	0.0123	0.0071	0.0120
U	0.0468	0.0423	0.0139	0.0277	0.0185	0.0246	0.0130	0.0242
W	0.2736	0.2759	0.0482	0.0877	0.0485	0.0711	0.0512	0.0714
W2	0.0459	0.0491	0.0299	0.0517	0.0244	0.0345	0.0301	0.0480
X	0.3037	0.3065	0.0504	0.0851	0.0440	0.0675	0.0409	0.0663
X2	0.0532	0.0609	0.0345	0.0593	0.0261	0.0450	0.0339	0.0538
Z	0.6079	0.5966	0.0491	0.0916	0.0441	0.0734	0.0397	0.0770
1A	0.4290	0.4197	0.2279	0.2945	0.2492	0.2882	0.2123	0.2759
1B	0.1393	0.1575	0.0793	0.1511	0.0751	0.1333	0.0720	0.1313
1C	0.0322	0.0362	0.0202	0.0351	0.0139	0.0238	0.0109	0.0265
1D	0.0665	0.0659	0.0363	0.0642	0.0298	0.0427	0.0246	0.0433
1E	0.1002	0.1265	0.0658	0.1234	0.0462	0.0830	0.0520	0.0955
1F	0.0425	0.0386	0.0215	0.0435	0.0190	0.0324	0.0178	0.0335
1G	0.1076	0.0990	0.0269	0.0473	0.0255	0.0448	0.0212	0.0412
1H	0.0361	0.0357	0.0200	0.0340	0.0158	0.0250	0.0131	0.0223
1I	0.0903	0.0761	0.0300	0.0460	0.0278	0.0448	0.0252	0.0501
1J	0.0951	0.0874	0.0178	0.0339	0.0182	0.0308	0.0145	0.0270
1K	0.0330	0.0347	0.0157	0.0325	0.0116	0.0172	0.0122	0.0242
1L	0.1233	0.1104	0.0221	0.0430	0.0226	0.0455	0.0241	0.0458
1M	0.0235	0.0203	0.0044	0.0126	0.0046	0.0069	0.0034	0.0082
1N	0.4714	0.4550	0.1478	0.2385	0.1858	0.2444	0.1754	0.2402
1O	0.0189	0.0178	0.0045	0.0134	0.0045	0.0072	0.0035	0.0076
1P	0.0332	0.0310	0.0078	0.0185	0.0113	0.0152	0.0077	0.0145
1Q	0.1022	0.0942	0.0213	0.0435	0.0177	0.0294	0.0194	0.0371

Table 6: Single Finger FRR at a FAR of 0.0001

	DHS2	DOS	POE	POEBVA
D	0.0005	0.0100	0.0001	0.0002
F	0.0048	0.0001	<0.00002	<0.00002
H	0.0276	<0.00002	<0.00002	<0.00002
I	0.0017	<0.00002	<0.00002	<0.00002
J	0.0539	0.0019	<0.00002	<0.00002
K	0.0588	0.0256	0.0007	0.0009
O	NA	0.0000	<0.00002	<0.00002
P	NA	0.0001	<0.00002	<0.00002
Q	NA	<0.00002	<0.00002	<0.00002
R		<0.00002	<0.00002	<0.00002
U	0.0794	<0.00002	<0.00002	<0.00002
W	NA	0.0085	0.0016	0.0024
W2	0.0100	0.0003	0.0000	0.0002
X	NA	0.0276	0.0160	0.0113
X2	0.0232	0.0023	0.0019	0.0033
Z	NA	0.0079	0.0010	0.0010
1A	NA	0.4825	0.4624	0.4661
1B	0.0678	0.2426	0.0169	0.0163
1C	0.0105	<0.00002	<0.00002	<0.00002
1D	0.0752	0.0215	0.0006	0.0005
1E	0.0207	0.1416	0.0026	0.0043
1F	0.0175	0.0002	<0.00002	<0.00002
1G	NA	0.0178	0.0001	<0.00002
1H	0.0145	<0.00002	<0.00002	<0.00002
1I	0.0615	0.0009	<0.00002	<0.00002
1J	NA	0.0014	<0.00002	<0.00002
1K	0.0036	<0.00002	<0.00002	<0.00002
1L	NA	0.0002	<0.00002	<0.00002
1M	0.0100	<0.00002	<0.00002	<0.00002
1N	NA	NA	NA	NA
1O	0.0051	<0.00002	<0.00002	<0.00002
1P	0.0232	<0.00002	<0.00002	<0.00002
1Q	0.5771	0.0001	<0.00002	<0.00002

Table 7: FAR at a TAR of 0.995

	DHS2	DOS	POE	POEBVA
D	0.0035	0.0971	0.0018	0.0027
F	0.0188	0.0057	0.0001	0.0001
H	NA	0.0002	<0.00002	<0.00002
I	0.0070	0.0002	<0.00002	<0.00002
J	0.4675	0.0582	0.0004	0.0013
K	0.3594	0.2123	0.0174	0.0220
O	NA	0.0009	<0.00002	<0.00002
P	NA	NA	<0.00002	<0.00002
Q	NA	NA	0.0002	0.0005
R	NA	0.0001	<0.00002	<0.00002
U	0.1349	0.0031	0.0001	0.0002
W	NA	NA	0.0731	0.0411
W2	0.0627	0.0061	0.0008	0.0033
X	NA	0.1021	0.0352	0.0332
X2	0.1022	0.0149	0.0080	0.0153
Z	NA	NA	0.0163	0.0187
1A	NA	0.7482	0.8057	0.7266
1B	0.4394	NA	0.1820	0.1406
1C	0.1343	0.0008	<0.00002	<0.00002
1D	0.4510	0.1506	0.0673	0.0281
1E	0.1716	NA	0.0497	0.0706
1F	0.0819	0.0040	0.0001	0.0001
1G	NA	NA	0.0400	0.0172
1H	0.1538	0.0004	<0.00002	<0.00002
1I	0.5935	0.0700	0.0014	0.0038
1J	NA	0.0462	0.0013	0.0010
1K	0.0301	0.0010	<0.00002	<0.00002
1L	NA	0.0028	0.0011	0.0010
1M	0.1138	<0.00002	<0.00002	<0.00002
1N	NA	NA	NA	NA
1O	0.0703	<0.00002	<0.00002	<0.00002
1P	0.2223	<0.00002	<0.00002	<0.00002
1Q	0.7064	0.0026	0.0001	0.0007

Table 8: FAR at a TAR of 0.998

	DHS2	DOS	POE	POEBVA
D	0.0024	0.0058	0.0020	0.0021
F	0.0049	0.0026	0.0010	0.0011
H	0.0074	0.0011	0.0005	0.0004
I	0.0034	0.0010	0.0006	0.0006
J	0.0075	0.0042	0.0015	0.0018
K	0.0097	0.0074	0.0032	0.0033
O	0.0086	0.0018	0.0007	0.0007
P	0.0133	0.0032	0.0011	0.0014
Q	0.0080	0.0023	0.0013	0.0015
R	0.0072	0.0008	0.0004	0.0004
U	0.0077	0.0022	0.0012	0.0014
W	0.1329	0.0057	0.0036	0.0041
W2	0.0059	0.0026	0.0016	0.0022
X	0.1269	0.0099	0.0084	0.0065
X2	0.0076	0.0040	0.0036	0.0043
Z	0.4780	0.0056	0.0030	0.0033
1A	0.1338	0.0331	0.0265	0.0279
1B	0.0106	0.0144	0.0066	0.0068
1C	0.0058	0.0017	0.0009	0.0008
1D	0.0095	0.0068	0.0038	0.0034
1E	0.0072	0.0113	0.0043	0.0049
1F	0.0059	0.0023	0.0011	0.0011
1G	0.0350	0.0059	0.0028	0.0026
1H	0.0062	0.0013	0.0008	0.0005
1I	0.0087	0.0036	0.0019	0.0023
1J	0.0362	0.0044	0.0019	0.0018
1K	0.0046	0.0017	0.0007	0.0008
1L	0.0357	0.0022	0.0017	0.0018
1M	0.0056	0.0003	0.0003	0.0002
1N	0.3140	0.0682	0.0828	0.0726
1O	0.0050	0.0003	0.0004	0.0002
1P	0.0067	0.0008	0.0005	0.0007
1Q	0.0336	0.0022	0.0011	0.0016

Table 9: Equal Error Rates