Tables of simulation results

Contents

Download the LaTeXsource from this link.

Simple random sampling

Type I errors ($n = 500$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.108	0.057	0.010
WaldVCF	1000	1000	2	0.108	0.053	0.010
WaldDiag,MM3	1000	1000	2	0.089	0.036	0.004
Pearson,MM3	1000	1000	2	0.104	0.051	0.011
RSS,MM3	1000	1000	2	0.104	0.055	0.011
Multn,MM3	1000	1000	2	0.107	0.053	0.010
1F 8V						
Wald	1000	1000	0	0.108	0.057	0.013
WaldVCF	1000	1000	0	0.105	0.056	0.012
WaldDiag,MM3	1000	1000	0	0.040	0.012	0.001
Pearson,MM3	1000	1000	0	0.095	0.047	0.006
RSS,MM3	1000	1000	0	0.093	0.053	0.010
Multn,MM3	1000	1000	0	0.099	0.050	0.009
1F 15V						
Wald	1000	1000	2	0.102	0.058	0.014
WaldVCF	1000	1000	2	0.102	0.058	0.013
WaldDiag,MM3	1000	1000	2	0.096	0.055	0.012
Pearson,MM3	1000	1000	2	0.106	0.055	0.013
RSS,MM3	1000	1000	2	0.104	0.055	0.011
Multn,MM3	1000	1000	2	0.101	0.057	0.013
2F 10V						
Wald	1000	1000	0	0.099	0.049	0.009
WaldVCF	1000	1000	0	0.096	0.048	0.009
WaldDiag,MM3	1000	1000	0	0.052	0.021	0.004
Pearson,MM3	1000	1000	0	0.079	0.037	0.008
RSS,MM3	1000	1000	0	0.084	0.041	0.007
Multn,MM3	1000	1000	0	0.091	0.048	0.008
3F 15V						
Wald	1000	1000	17	0.103	0.057	0.012
WaldVCF	1000	1000	17	0.102	0.057	0.012
WaldDiag,MM3	1000	1000	17	0.084	0.039	0.010
Pearson,MM3	1000	1000	17	0.103	0.047	0.010
RSS,MM3	1000	1000	17	0.101	0.052	0.008
Multn,MM3	1000	1000	17	0.102	0.055	0.011

Type I errors ($n = 1000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.105	0.055	0.010
WaldVCF	1000	1000	2	0.104	0.053	0.010
WaldDiag,MM3	1000	1000	2	0.068	0.032	0.004
Pearson,MM3	1000	1000	2	0.091	0.047	0.007
RSS,MM3	1000	1000	2	0.091	0.045	0.007
Multn,MM3	1000	1000	2	0.097	0.053	0.010
1F 8V						
Wald	1000	1000	1	0.119	0.051	0.016
WaldVCF	1000	1000	1	0.118	0.051	0.014
WaldDiag,MM3	1000	1000	1	0.089	0.034	0.009
Pearson,MM3	1000	1000	1	0.104	0.055	0.014
RSS,MM3	1000	1000	1	0.104	0.061	0.014
Multn,MM3	1000	1000	1	0.115	0.048	0.014
1F 15V						
Wald	1000	1000	17	0.110	0.059	0.014
WaldVCF	1000	1000	17	0.106	0.057	0.013
WaldDiag,MM3	1000	1000	17	0.075	0.032	0.005
Pearson,MM3	1000	1000	17	0.116	0.065	0.012
RSS,MM3	1000	1000	17	0.114	0.058	0.012
Multn,MM3	1000	1000	17	0.104	0.056	0.013
2F 10V						
Wald	1000	1000	16	0.102	0.044	0.007
WaldVCF	1000	1000	16	0.096	0.044	0.006
WaldDiag,MM3	1000	1000	16	0.044	0.023	0.002
Pearson,MM3	1000	1000	16	0.086	0.045	0.005
RSS,MM3	1000	1000	16	0.083	0.043	0.004
Multn,MM3	1000	1000	16	0.091	0.041	0.004
3F 15V						
Wald	1000	1000	31	0.090	0.044	0.012
WaldVCF	1000	1000	31	0.084	0.043	0.011
WaldDiag,MM3	1000	1000	31	0.055	0.020	0.003
Pearson,MM3	1000	1000	31	0.087	0.046	0.008
RSS,MM3	1000	1000	31	0.084	0.041	0.009
Multn,MM3	1000	1000	31	0.076	0.041	0.009

Type I errors ($n = 2000$)

					Rejection rate		
sim	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Type I errors ($n = 3000$)

					Rejection rate		
sim	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Type I errors ($n = 5000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.112	0.060	0.014
WaldVCF	1000	1000	2	0.112	0.060	0.014
WaldDiag,MM3	1000	1000	2	0.096	0.055	0.013
Pearson,MM3	1000	1000	2	0.109	0.058	0.013
RSS,MM3	1000	1000	2	0.110	0.058	0.012
Multn,MM3	1000	1000	2	0.111	0.058	0.014
1F 8V						
Wald	1000	1000	7	0.102	0.053	0.020
WaldVCF	1000	1000	7	0.102	0.052	0.019
WaldDiag,MM3	1000	1000	7	0.098	0.049	0.008
Pearson,MM3	1000	1000	7	0.098	0.056	0.012
RSS,MM3	1000	1000	7	0.104	0.050	0.013
Multn,MM3	1000	1000	7	0.100	0.052	0.019
1F 15V						
Wald	1000	1000	26	0.088	0.046	0.007
WaldVCF	1000	1000	26	0.086	0.046	0.007
WaldDiag,MM3	1000	1000	26	0.086	0.038	0.004
Pearson,MM3	1000	1000	26	0.100	0.054	0.006
RSS,MM3	1000	1000	26	0.103	0.041	0.006
Multn,MM3	1000	1000	26	0.086	0.046	0.007
2F 10V						
Wald	1000	1000	26	0.108	0.051	0.008
WaldVCF	1000	1000	26	0.104	0.048	0.007
WaldDiag,MM3	1000	1000	26	0.097	0.053	0.010
Pearson,MM3	1000	1000	26	0.101	0.039	0.009
RSS,MM3	1000	1000	26	0.096	0.042	0.012
Multn,MM3	1000	1000	26	0.105	0.049	0.007
3F 15V						
Wald	1000	1000	68	0.114	0.067	0.009
WaldVCF	1000	1000	68	0.110	0.056	0.007
WaldDiag,MM3	1000	1000	68	0.089	0.049	0.008
Pearson,MM3	1000	1000	68	0.101	0.047	0.013
RSS,MM3	1000	1000	68	0.104	0.054	0.012
Multn,MM3	1000	1000	68	0.109	0.057	0.007

Type I errors ($n = 10000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	5	0.110	0.050	0.013
WaldVCF	1000	1000	5	0.110	0.049	0.013
WaldDiag,MM3	1000	1000	5	0.089	0.044	0.007
Pearson,MM3	1000	1000	5	0.108	0.053	0.015
RSS,MM3	1000	1000	5	0.111	0.057	0.015
Multn,MM3	1000	1000	5	0.109	0.049	0.013
1F 8V						
Wald	1000	1000	10	0.107	0.045	0.012
WaldVCF	1000	1000	10	0.106	0.044	0.012
WaldDiag,MM3	1000	1000	10	0.092	0.042	0.007
Pearson,MM3	1000	1000	10	0.082	0.041	0.008
RSS,MM3	1000	1000	10	0.091	0.044	0.009
Multn,MM3	1000	1000	10	0.105	0.043	0.012
1F 15V						
Wald	1000	1000	38	0.100	0.049	0.006
WaldVCF	1000	1000	38	0.100	0.048	0.006
WaldDiag,MM3	1000	1000	38	0.101	0.045	0.011
Pearson,MM3	1000	1000	38	0.097	0.046	0.009
RSS,MM3	1000	1000	38	0.095	0.049	0.008
Multn,MM3	1000	1000	38	0.100	0.048	0.006
2F 10V						
Wald	1000	1000	35	0.106	0.056	0.015
WaldVCF	1000	1000	35	0.101	0.054	0.013
WaldDiag,MM3	1000	1000	35	0.103	0.054	0.012
Pearson,MM3	1000	1000	35	0.099	0.058	0.012
RSS,MM3	1000	1000	35	0.096	0.056	0.013
Multn,MM3	1000	1000	35	0.100	0.054	0.013
3F 15V						
Wald	1000	1000	93	0.096	0.050	0.010
WaldVCF	1000	1000	93	0.089	0.046	0.010
WaldDiag,MM3	1000	1000	93	0.087	0.047	0.012
Pearson,MM3	1000	1000	93	0.087	0.042	0.014
RSS,MM3	1000	1000	93	0.081	0.041	0.012
Multn,MM3	1000	1000	93	0.088	0.046	0.010

Power ($n = 500$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.877	0.820	0.636
WaldVCF	1000	1000	0	0.877	0.820	0.636
WaldDiag,MM3	1000	1000	0	0.774	0.666	0.417
Pearson,MM3	1000	1000	0	0.892	0.836	0.696
RSS,MM3	1000	1000	0	0.897	0.856	0.714
Multn,MM3	1000	1000	0	0.876	0.818	0.633
1F 8V						
Wald	1000	1000	1	0.315	0.198	0.086
WaldVCF	1000	1000	1	0.314	0.196	0.085
WaldDiag,MM3	1000	1000	1	0.118	0.056	0.007
Pearson,MM3	1000	1000	1	0.316	0.215	0.081
RSS,MM3	1000	1000	1	0.327	0.223	0.085
Multn,MM3	1000	1000	1	0.293	0.179	0.069
1F 15V						
Wald	1000	1000	1	0.999	0.998	0.994
WaldVCF	1000	1000	1	0.999	0.998	0.993
WaldDiag,MM3	1000	1000	1	0.997	0.990	0.963
Pearson,MM3	1000	1000	1	0.982	0.955	0.849
RSS,MM3	1000	1000	1	0.994	0.986	0.948
Multn,MM3	1000	1000	1	0.999	0.998	0.993
2F 10V						
Wald	1000	1000	0	0.590	0.469	0.271
WaldVCF	1000	1000	0	0.585	0.462	0.269
WaldDiag,MM3	1000	1000	0	0.383	0.243	0.071
Pearson,MM3	1000	1000	0	0.337	0.208	0.065
RSS,MM3	1000	1000	0	0.425	0.295	0.099
Multn,MM3	1000	1000	0	0.584	0.459	0.262
3F 15V						
Wald	1000	1000	12	0.987	0.981	0.949
WaldVCF	1000	1000	12	0.987	0.979	0.947
WaldDiag,MM3	1000	1000	12	0.982	0.958	0.863
Pearson,MM3	1000	1000	12	0.998	0.997	0.993
RSS,MM3	1000	1000	12	0.999	0.998	0.992
Multn,MM3	1000	1000	12	0.987	0.979	0.947

Power ($n = 1000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.533	0.408	0.215
WaldVCF	1000	1000	0	0.530	0.406	0.211
WaldDiag,MM3	1000	1000	0	0.354	0.220	0.063
Pearson,MM3	1000	1000	0	0.561	0.429	0.231
RSS,MM3	1000	1000	0	0.571	0.447	0.245
Multn,MM3	1000	1000	0	0.524	0.399	0.204
1F 8V						
Wald	1000	1000	1	0.896	0.828	0.675
WaldVCF	1000	1000	1	0.895	0.822	0.672
WaldDiag,MM3	1000	1000	1	0.787	0.669	0.382
Pearson,MM3	1000	1000	1	0.637	0.515	0.252
RSS,MM3	1000	1000	1	0.755	0.644	0.399
Multn,MM3	1000	1000	1	0.894	0.819	0.669
1F 15V						
Wald	1000	1000	3	0.739	0.611	0.376
WaldVCF	1000	1000	3	0.736	0.601	0.369
WaldDiag,MM3	1000	1000	3	0.600	0.453	0.214
Pearson,MM3	1000	1000	3	0.880	0.812	0.616
RSS,MM3	1000	1000	3	0.880	0.807	0.618
Multn,MM3	1000	1000	3	0.733	0.600	0.367
2F 10V						
Wald	1000	1000	8	0.345	0.211	0.087
WaldVCF	1000	1000	8	0.326	0.200	0.077
WaldDiag,MM3	1000	1000	8	0.290	0.181	0.062
Pearson,MM3	1000	1000	8	0.409	0.289	0.151
RSS,MM3	1000	1000	8	0.427	0.317	0.161
Multn,MM3	1000	1000	8	0.319	0.193	0.075
3F 15V						
Wald	1000	1000	16	0.392	0.282	0.136
WaldVCF	1000	1000	16	0.378	0.273	0.128
WaldDiag,MM3	1000	1000	16	0.347	0.232	0.097
Pearson,MM3	1000	1000	16	0.498	0.386	0.197
RSS,MM3	1000	1000	16	0.513	0.400	0.228
Multn,MM3	1000	1000	16	0.366	0.264	0.125

Power ($n = 2000$)

					Rejection rate		
sim	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Power ($n = 3000$)

					Rejection rate		
sim	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Power ($n = 5000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.987	0.976	0.937
WaldVCF	1000	1000	0	0.987	0.976	0.936
WaldDiag,MM3	1000	1000	0	0.970	0.945	0.847
Pearson,MM3	1000	1000	0	0.987	0.977	0.941
RSS,MM3	1000	1000	0	0.988	0.980	0.954
Multn,MM3	1000	1000	0	0.986	0.976	0.936
1F 8V						
Wald	1000	1000	2	1.000	1.000	1.000
WaldVCF	1000	1000	2	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	2	1.000	1.000	1.000
Pearson,MM3	1000	1000	2	1.000	1.000	0.998
RSS,MM3	1000	1000	2	1.000	1.000	1.000
Multn,MM3	1000	1000	2	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	17	1.000	1.000	1.000
WaldVCF	1000	1000	17	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	17	1.000	1.000	0.999
Pearson,MM3	1000	1000	17	1.000	1.000	1.000
RSS,MM3	1000	1000	17	1.000	1.000	1.000
Multn,MM3	1000	1000	17	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	11	0.806	0.749	0.632
WaldVCF	1000	1000	11	0.801	0.741	0.619
WaldDiag,MM3	1000	1000	11	0.836	0.777	0.640
Pearson,MM3	1000	1000	11	0.852	0.803	0.687
RSS,MM3	1000	1000	11	0.866	0.825	0.727
Multn,MM3	1000	1000	11	0.802	0.746	0.627
3F 15V						
Wald	1000	1000	51	0.932	0.898	0.804
WaldVCF	1000	1000	51	0.928	0.891	0.795
WaldDiag,MM3	1000	1000	51	0.946	0.918	0.844
Pearson,MM3	1000	1000	51	0.953	0.934	0.877
RSS,MM3	1000	1000	51	0.964	0.943	0.897
Multn,MM3	1000	1000	51	0.930	0.892	0.796

Power ($n = 10000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	1.000	1.000	0.999
WaldVCF	1000	1000	0	1.000	1.000	0.999
WaldDiag,MM3	1000	1000	0	1.000	0.999	0.994
Pearson,MM3	1000	1000	0	1.000	0.999	0.999
RSS,MM3	1000	1000	0	1.000	0.999	0.999
Multn,MM3	1000	1000	0	1.000	1.000	0.999
1F 8V						
Wald	1000	1000	1	1.000	1.000	1.000
WaldVCF	1000	1000	1	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	1	1.000	1.000	1.000
Pearson,MM3	1000	1000	1	1.000	1.000	1.000
RSS,MM3	1000	1000	1	1.000	1.000	1.000
Multn,MM3	1000	1000	1	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	22	1.000	1.000	1.000
WaldVCF	1000	1000	22	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	22	1.000	1.000	1.000
Pearson,MM3	1000	1000	22	1.000	1.000	1.000
RSS,MM3	1000	1000	22	1.000	1.000	1.000
Multn,MM3	1000	1000	22	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	21	0.927	0.894	0.822
WaldVCF	1000	1000	21	0.924	0.891	0.813
WaldDiag,MM3	1000	1000	21	0.936	0.913	0.842
Pearson,MM3	1000	1000	21	0.948	0.921	0.853
RSS,MM3	1000	1000	21	0.955	0.935	0.889
Multn,MM3	1000	1000	21	0.926	0.891	0.819
3F 15V						
Wald	1000	1000	63	0.988	0.986	0.964
WaldVCF	1000	1000	63	0.987	0.982	0.961
WaldDiag,MM3	1000	1000	63	0.992	0.987	0.975
Pearson,MM3	1000	1000	63	0.993	0.987	0.976
RSS,MM3	1000	1000	63	0.993	0.990	0.982
Multn,MM3	1000	1000	63	0.988	0.985	0.963

Stratified sampling

Type I errors ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.128	0.070	0.027
WaldVCF	1000	1000	1	0.123	0.066	0.026
WaldDiag,MM3	1000	1000	1	0.103	0.052	0.013
Pearson,MM3	1000	1000	1	0.129	0.070	0.023
RSS,MM3	1000	1000	1	0.130	0.073	0.021
Multn,MM3	1000	1000	1	0.124	0.067	0.027
1F 8V						
Wald	1000	1000	2	0.151	0.091	0.032
WaldVCF	1000	1000	2	0.120	0.066	0.013
WaldDiag,MM3	1000	1000	2	0.050	0.022	0.003
Pearson,MM3	1000	1000	2	0.114	0.057	0.014
RSS,MM3	1000	1000	2	0.117	0.060	0.013
Multn,MM3	1000	1000	2	0.122	0.075	0.017
1F 15V						
Wald	1000	1000	2	0.184	0.104	0.029
WaldVCF	1000	1000	2	0.159	0.084	0.024
WaldDiag,MM3	1000	1000	2	0.121	0.061	0.013
Pearson,MM3	1000	1000	2	0.151	0.083	0.022
RSS,MM3	1000	1000	2	0.156	0.086	0.023
Multn,MM3	1000	1000	2	0.179	0.097	0.028
2F 10V						
Wald	1000	1000	1	0.328	0.231	0.095
WaldVCF	1000	1000	1	0.164	0.086	0.023
WaldDiag,MM3	1000	1000	1	0.080	0.036	0.003
Pearson,MM3	1000	1000	1	0.149	0.083	0.025
RSS,MM3	1000	1000	1	0.151	0.078	0.027
Multn,MM3	1000	1000	1	0.261	0.175	0.062
3F 15V						
Wald	1000	1000	14	0.373	0.260	0.090
WaldVCF	1000	1000	14	0.279	0.157	0.045
WaldDiag,MM3	1000	1000	14	0.184	0.084	0.012
Pearson,MM3	1000	1000	14	0.268	0.162	0.043
RSS,MM3	1000	1000	14	0.268	0.160	0.045
Multn,MM3	1000	1000	14	0.385	0.278	0.096

Type I errors ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.152	0.080	0.021
WaldVCF	1000	1000	2	0.139	0.066	0.017
WaldDiag,MM3	1000	1000	2	0.081	0.039	0.003
Pearson,MM3	1000	1000	2	0.134	0.077	0.015
RSS,MM3	1000	1000	2	0.133	0.067	0.015
Multn,MM3	1000	1000	2	0.143	0.071	0.018
1F 8V						
Wald	1000	1000	0	0.245	0.157	0.045
WaldVCF	1000	1000	0	0.177	0.085	0.022
WaldDiag,MM3	1000	1000	0	0.115	0.046	0.010
Pearson,MM3	1000	1000	0	0.173	0.094	0.017
RSS,MM3	1000	1000	0	0.167	0.098	0.018
Multn,MM3	1000	1000	0	0.218	0.127	0.036
1F 15V						
Wald	1000	1000	12	0.625	0.500	0.285
WaldVCF	1000	1000	12	0.330	0.208	0.062
WaldDiag,MM3	1000	1000	12	0.160	0.086	0.015
Pearson,MM3	1000	1000	12	0.278	0.176	0.050
RSS,MM3	1000	1000	12	0.286	0.173	0.052
Multn,MM3	1000	1000	12	0.615	0.484	0.268
2F 10V						
Wald	1000	1000	8	0.289	0.190	0.067
WaldVCF	1000	1000	8	0.204	0.122	0.031
WaldDiag,MM3	1000	1000	8	0.112	0.046	0.006
Pearson,MM3	1000	1000	8	0.190	0.096	0.026
RSS,MM3	1000	1000	8	0.190	0.100	0.026
Multn,MM3	1000	1000	8	0.283	0.185	0.063
3F 15V						
Wald	1000	1000	41	0.551	0.394	0.187
WaldVCF	1000	1000	41	0.344	0.218	0.070
WaldDiag,MM3	1000	1000	41	0.147	0.068	0.009
Pearson,MM3	1000	1000	41	0.254	0.142	0.036
RSS,MM3	1000	1000	41	0.253	0.144	0.033
Multn,MM3	1000	1000	41	0.572	0.443	0.210

Type I errors ($n = 2000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Type I errors ($n = 3000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Type I errors ($n = 5000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	3	0.149	0.084	0.017
WaldVCF	1000	1000	3	0.148	0.080	0.016
WaldDiag,MM3	1000	1000	3	0.146	0.063	0.015
Pearson,MM3	1000	1000	3	0.138	0.083	0.019
RSS,MM3	1000	1000	3	0.142	0.083	0.017
Multn,MM3	1000	1000	3	0.148	0.081	0.016
1F 8V						
Wald	1000	1000	8	0.161	0.094	0.031
WaldVCF	1000	1000	8	0.154	0.087	0.030
WaldDiag,MM3	1000	1000	8	0.130	0.074	0.015
Pearson,MM3	1000	1000	8	0.160	0.102	0.029
RSS,MM3	1000	1000	8	0.168	0.095	0.028
Multn,MM3	1000	1000	8	0.160	0.094	0.031
1F 15V						
Wald	1000	1000	31	0.317	0.196	0.070
WaldVCF	1000	1000	31	0.268	0.158	0.045
WaldDiag,MM3	1000	1000	31	0.186	0.109	0.030
Pearson,MM3	1000	1000	31	0.295	0.172	0.056
RSS,MM3	1000	1000	31	0.307	0.172	0.059
Multn,MM3	1000	1000	31	0.329	0.204	0.073
2F 10V						
Wald	1000	1000	14	0.228	0.124	0.037
WaldVCF	1000	1000	14	0.202	0.114	0.031
WaldDiag,MM3	1000	1000	14	0.164	0.085	0.027
Pearson,MM3	1000	1000	14	0.179	0.104	0.027
RSS,MM3	1000	1000	14	0.195	0.108	0.025
Multn,MM3	1000	1000	14	0.221	0.124	0.037
3F 15V						
Wald	1000	1000	72	0.344	0.221	0.080
WaldVCF	1000	1000	72	0.295	0.186	0.066
WaldDiag,MM3	1000	1000	72	0.231	0.134	0.034
Pearson,MM3	1000	1000	72	0.272	0.150	0.046
RSS,MM3	1000	1000	72	0.278	0.167	0.055
Multn,MM3	1000	1000	72	0.347	0.227	0.084

Type I errors ($n = 10000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	5	0.148	0.086	0.022
WaldVCF	1000	1000	5	0.147	0.085	0.021
WaldDiag,MM3	1000	1000	5	0.133	0.065	0.019
Pearson,MM3	1000	1000	5	0.149	0.087	0.033
RSS,MM3	1000	1000	5	0.148	0.094	0.033
Multn,MM3	1000	1000	5	0.147	0.086	0.020
1F 8V						
Wald	1000	1000	13	0.141	0.076	0.023
WaldVCF	1000	1000	13	0.139	0.075	0.023
WaldDiag,MM3	1000	1000	13	0.124	0.068	0.012
Pearson,MM3	1000	1000	13	0.195	0.102	0.030
RSS,MM3	1000	1000	13	0.188	0.107	0.027
Multn,MM3	1000	1000	13	0.140	0.075	0.023
1F 15V						
Wald	1000	1000	36	0.288	0.187	0.061
WaldVCF	1000	1000	36	0.284	0.178	0.060
WaldDiag,MM3	1000	1000	36	0.229	0.139	0.042
Pearson,MM3	1000	1000	36	0.329	0.224	0.085
RSS,MM3	1000	1000	36	0.346	0.234	0.087
Multn,MM3	1000	1000	36	0.282	0.177	0.060
2F 10V						
Wald	1000	1000	32	0.184	0.111	0.038
WaldVCF	1000	1000	32	0.179	0.106	0.037
WaldDiag,MM3	1000	1000	32	0.165	0.092	0.022
Pearson,MM3	1000	1000	32	0.190	0.105	0.029
RSS,MM3	1000	1000	32	0.190	0.112	0.029
Multn,MM3	1000	1000	32	0.179	0.106	0.036
3F 15V						
Wald	1000	1000	84	0.295	0.193	0.065
WaldVCF	1000	1000	84	0.276	0.177	0.058
WaldDiag,MM3	1000	1000	84	0.236	0.145	0.035
Pearson,MM3	1000	1000	84	0.299	0.196	0.057
RSS,MM3	1000	1000	84	0.304	0.207	0.066
Multn,MM3	1000	1000	84	0.275	0.175	0.058

Power ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.841	0.766	0.558
WaldVCF	1000	1000	0	0.837	0.755	0.542
WaldDiag,MM3	1000	1000	0	0.735	0.609	0.331
Pearson,MM3	1000	1000	0	0.881	0.812	0.639
RSS,MM3	1000	1000	0	0.884	0.817	0.657
Multn,MM3	1000	1000	0	0.836	0.756	0.542
1F 8V						
Wald	1000	1000	1	0.426	0.315	0.144
WaldVCF	1000	1000	1	0.376	0.258	0.097
WaldDiag,MM3	1000	1000	1	0.195	0.090	0.009
Pearson,MM3	1000	1000	1	0.409	0.287	0.113
RSS,MM3	1000	1000	1	0.414	0.292	0.113
Multn,MM3	1000	1000	1	0.365	0.240	0.082
1F 15V						
Wald	1000	1000	0	1.000	1.000	1.000
WaldVCF	1000	1000	0	1.000	1.000	0.999
WaldDiag,MM3	1000	1000	0	0.999	0.999	0.991
Pearson,MM3	1000	1000	0	1.000	0.997	0.982
RSS,MM3	1000	1000	0	1.000	1.000	0.997
Multn,MM3	1000	1000	0	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	1	0.795	0.684	0.489
WaldVCF	1000	1000	1	0.525	0.387	0.168
WaldDiag,MM3	1000	1000	1	0.382	0.232	0.060
Pearson,MM3	1000	1000	1	0.390	0.248	0.070
RSS,MM3	1000	1000	1	0.466	0.322	0.111
Multn,MM3	1000	1000	1	0.709	0.596	0.375
3F 15V						
Wald	1000	1000	5	0.995	0.988	0.966
WaldVCF	1000	1000	5	0.987	0.979	0.930
WaldDiag,MM3	1000	1000	5	0.979	0.958	0.858
Pearson,MM3	1000	1000	5	1.000	0.999	0.996
RSS,MM3	1000	1000	5	1.000	0.999	0.995
Multn,MM3	1000	1000	5	0.994	0.987	0.962

Power ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.673	0.559	0.339
WaldVCF	1000	1000	0	0.656	0.526	0.301
WaldDiag,MM3	1000	1000	0	0.490	0.339	0.126
Pearson,MM3	1000	1000	0	0.636	0.508	0.271
RSS,MM3	1000	1000	0	0.676	0.566	0.323
Multn,MM3	1000	1000	0	0.662	0.537	0.316
1F 8V						
Wald	1000	1000	2	0.964	0.940	0.837
WaldVCF	1000	1000	2	0.934	0.871	0.659
WaldDiag,MM3	1000	1000	2	0.842	0.719	0.420
Pearson,MM3	1000	1000	2	0.795	0.685	0.398
RSS,MM3	1000	1000	2	0.882	0.791	0.554
Multn,MM3	1000	1000	2	0.957	0.933	0.817
1F 15V						
Wald	1000	1000	5	0.977	0.952	0.867
WaldVCF	1000	1000	5	0.853	0.754	0.503
WaldDiag,MM3	1000	1000	5	0.756	0.612	0.320
Pearson,MM3	1000	1000	5	0.963	0.921	0.798
RSS,MM3	1000	1000	5	0.956	0.911	0.781
Multn,MM3	1000	1000	5	0.959	0.920	0.787
2F 10V						
Wald	1000	1000	6	0.560	0.447	0.221
WaldVCF	1000	1000	6	0.452	0.316	0.120
WaldDiag,MM3	1000	1000	6	0.382	0.262	0.082
Pearson,MM3	1000	1000	6	0.495	0.379	0.176
RSS,MM3	1000	1000	6	0.557	0.435	0.208
Multn,MM3	1000	1000	6	0.541	0.412	0.206
3F 15V						
Wald	1000	1000	27	0.667	0.539	0.275
WaldVCF	1000	1000	27	0.438	0.295	0.110
WaldDiag,MM3	1000	1000	27	0.304	0.186	0.049
Pearson,MM3	1000	1000	27	0.405	0.267	0.126
RSS,MM3	1000	1000	27	0.429	0.289	0.136
Multn,MM3	1000	1000	27	0.690	0.572	0.308

Power ($n = 2000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Power ($n = 3000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Power ($n = 5000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	3	0.964	0.946	0.868
WaldVCF	1000	1000	3	0.964	0.943	0.867
WaldDiag,MM3	1000	1000	3	0.965	0.934	0.816
Pearson,MM3	1000	1000	3	0.974	0.951	0.880
RSS,MM3	1000	1000	3	0.976	0.953	0.896
Multn,MM3	1000	1000	3	0.964	0.943	0.866
1F 8V						
Wald	1000	1000	1	1.000	1.000	1.000
WaldVCF	1000	1000	1	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	1	1.000	1.000	1.000
Pearson,MM3	1000	1000	1	1.000	1.000	1.000
RSS,MM3	1000	1000	1	1.000	1.000	1.000
Multn,MM3	1000	1000	1	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	13	1.000	1.000	1.000
WaldVCF	1000	1000	13	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	13	1.000	1.000	1.000
Pearson,MM3	1000	1000	13	1.000	1.000	1.000
RSS,MM3	1000	1000	13	1.000	1.000	1.000
Multn,MM3	1000	1000	13	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	13	0.679	0.554	0.318
WaldVCF	1000	1000	13	0.643	0.516	0.274
WaldDiag,MM3	1000	1000	13	0.677	0.540	0.278
Pearson,MM3	1000	1000	13	0.745	0.611	0.397
RSS,MM3	1000	1000	13	0.757	0.642	0.427
Multn,MM3	1000	1000	13	0.676	0.548	0.315
3F 15V						
Wald	1000	1000	47	0.973	0.949	0.844
WaldVCF	1000	1000	47	0.962	0.926	0.801
WaldDiag,MM3	1000	1000	47	0.991	0.974	0.906
Pearson,MM3	1000	1000	47	0.985	0.968	0.891
RSS,MM3	1000	1000	47	0.994	0.985	0.949
Multn,MM3	1000	1000	47	0.976	0.954	0.843

Power ($n = 10000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	1.000	1.000	0.995
WaldVCF	1000	1000	0	1.000	1.000	0.995
WaldDiag,MM3	1000	1000	0	0.999	0.998	0.982
Pearson,MM3	1000	1000	0	1.000	0.998	0.992
RSS,MM3	1000	1000	0	1.000	1.000	0.996
Multn,MM3	1000	1000	0	1.000	1.000	0.995
1F 8V						
Wald	1000	1000	2	1.000	1.000	1.000
WaldVCF	1000	1000	2	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	2	1.000	1.000	1.000
Pearson,MM3	1000	1000	2	1.000	1.000	1.000
RSS,MM3	1000	1000	2	1.000	1.000	1.000
Multn,MM3	1000	1000	2	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	22	1.000	1.000	1.000
WaldVCF	1000	1000	22	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	22	1.000	1.000	1.000
Pearson,MM3	1000	1000	22	1.000	1.000	1.000
RSS,MM3	1000	1000	22	1.000	1.000	1.000
Multn,MM3	1000	1000	22	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	15	1.000	1.000	1.000
WaldVCF	1000	1000	15	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	15	1.000	1.000	1.000
Pearson,MM3	1000	1000	15	1.000	1.000	1.000
RSS,MM3	1000	1000	15	1.000	1.000	1.000
Multn,MM3	1000	1000	15	1.000	1.000	1.000
3F 15V						
Wald	1000	1000	66	1.000	1.000	1.000
WaldVCF	1000	1000	66	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	66	1.000	1.000	1.000
Pearson,MM3	1000	1000	66	1.000	1.000	1.000
RSS,MM3	1000	1000	66	1.000	1.000	1.000
Multn,MM3	1000	1000	66	1.000	1.000	1.000

Cluster sampling

Type I errors ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.098	0.051	0.013
WaldVCF	1000	1000	2	0.091	0.048	0.012
WaldDiag,MM3	1000	1000	2	0.084	0.046	0.010
Pearson,MM3	1000	1000	2	0.094	0.050	0.008
RSS,MM3	1000	1000	2	0.087	0.049	0.007
Multn,MM3	1000	1000	2	0.092	0.048	0.012
1F 8V						
Wald	1000	1000	4	0.139	0.081	0.024
WaldVCF	1000	1000	4	0.111	0.054	0.007
WaldDiag,MM3	1000	1000	4	0.041	0.015	0.002
Pearson,MM3	1000	1000	4	0.074	0.033	0.004
RSS,MM3	1000	1000	4	0.073	0.032	0.003
Multn,MM3	1000	1000	4	0.115	0.057	0.014
1F 15V						
Wald	1000	1000	1	0.138	0.076	0.018
WaldVCF	1000	1000	1	0.113	0.059	0.010
WaldDiag,MM3	1000	1000	1	0.102	0.051	0.010
Pearson,MM3	1000	1000	1	0.095	0.040	0.010
RSS,MM3	1000	1000	1	0.096	0.045	0.012
Multn,MM3	1000	1000	1	0.134	0.074	0.017
2F 10V						
Wald	1000	1000	6	0.295	0.220	0.100
WaldVCF	1000	1000	6	0.114	0.060	0.015
WaldDiag,MM3	1000	1000	6	0.049	0.023	0.005
Pearson,MM3	1000	1000	6	0.084	0.032	0.008
RSS,MM3	1000	1000	6	0.083	0.037	0.009
Multn,MM3	1000	1000	6	0.218	0.140	0.051
3F 15V						
Wald	1000	1000	13	0.242	0.147	0.053
WaldVCF	1000	1000	13	0.136	0.078	0.018
WaldDiag,MM3	1000	1000	13	0.110	0.056	0.014
Pearson,MM3	1000	1000	13	0.095	0.050	0.007
RSS,MM3	1000	1000	13	0.094	0.052	0.007
Multn,MM3	1000	1000	13	0.262	0.157	0.059

Type I errors ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.111	0.056	0.010
WaldVCF	1000	1000	0	0.100	0.046	0.008
WaldDiag,MM3	1000	1000	0	0.053	0.021	0.002
Pearson,MM3	1000	1000	0	0.081	0.037	0.005
RSS,MM3	1000	1000	0	0.081	0.036	0.005
Multn,MM3	1000	1000	0	0.103	0.050	0.008
1F 8V						
Wald	1000	1000	3	0.194	0.125	0.037
WaldVCF	1000	1000	3	0.132	0.065	0.016
WaldDiag,MM3	1000	1000	3	0.097	0.054	0.009
Pearson,MM3	1000	1000	3	0.091	0.040	0.010
RSS,MM3	1000	1000	3	0.102	0.046	0.010
Multn,MM3	1000	1000	3	0.175	0.105	0.030
1F 15V						
Wald	1000	1000	8	0.481	0.356	0.185
WaldVCF	1000	1000	8	0.150	0.072	0.014
WaldDiag,MM3	1000	1000	8	0.085	0.039	0.005
Pearson,MM3	1000	1000	8	0.088	0.038	0.006
RSS,MM3	1000	1000	8	0.097	0.040	0.003
Multn,MM3	1000	1000	8	0.472	0.347	0.174
2F 10V						
Wald	1000	1000	10	0.207	0.122	0.042
WaldVCF	1000	1000	10	0.125	0.071	0.019
WaldDiag,MM3	1000	1000	10	0.067	0.027	0.005
Pearson,MM3	1000	1000	10	0.103	0.049	0.005
RSS,MM3	1000	1000	10	0.100	0.049	0.005
Multn,MM3	1000	1000	10	0.205	0.132	0.044
3F 15V						
Wald	1000	1000	28	0.298	0.181	0.066
WaldVCF	1000	1000	28	0.140	0.081	0.012
WaldDiag,MM3	1000	1000	28	0.065	0.028	0.004
Pearson,MM3	1000	1000	28	0.080	0.050	0.011
RSS,MM3	1000	1000	28	0.088	0.050	0.008
Multn,MM3	1000	1000	28	0.356	0.257	0.103

Type I errors ($n = 2000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Type I errors ($n = 3000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Type I errors ($n = 5000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.129	0.061	0.012
WaldVCF	1000	1000	0	0.121	0.058	0.012
WaldDiag,MM3	1000	1000	0	0.099	0.051	0.010
Pearson,MM3	1000	1000	0	0.115	0.055	0.009
RSS,MM3	1000	1000	0	0.117	0.055	0.009
Multn,MM3	1000	1000	0	0.124	0.059	0.012
1F 8V						
Wald	1000	1000	3	0.109	0.064	0.014
WaldVCF	1000	1000	3	0.098	0.060	0.010
WaldDiag,MM3	1000	1000	3	0.086	0.042	0.016
Pearson,MM3	1000	1000	3	0.076	0.036	0.008
RSS,MM3	1000	1000	3	0.080	0.032	0.009
Multn,MM3	1000	1000	3	0.109	0.063	0.014
1F 15V						
Wald	1000	1000	31	0.162	0.085	0.016
WaldVCF	1000	1000	31	0.123	0.058	0.014
WaldDiag,MM3	1000	1000	31	0.118	0.051	0.009
Pearson,MM3	1000	1000	31	0.093	0.038	0.008
RSS,MM3	1000	1000	31	0.092	0.047	0.007
Multn,MM3	1000	1000	31	0.172	0.097	0.017
2F 10V						
Wald	1000	1000	17	0.132	0.077	0.013
WaldVCF	1000	1000	17	0.119	0.067	0.008
WaldDiag,MM3	1000	1000	17	0.090	0.051	0.009
Pearson,MM3	1000	1000	17	0.107	0.058	0.016
RSS,MM3	1000	1000	17	0.109	0.052	0.016
Multn,MM3	1000	1000	17	0.131	0.074	0.015
3F 15V						
Wald	1000	1000	65	0.162	0.094	0.023
WaldVCF	1000	1000	65	0.130	0.071	0.018
WaldDiag,MM3	1000	1000	65	0.119	0.056	0.007
Pearson,MM3	1000	1000	65	0.104	0.051	0.011
RSS,MM3	1000	1000	65	0.103	0.054	0.005
Multn,MM3	1000	1000	65	0.168	0.104	0.026

Type I errors ($n = 10000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	4	0.107	0.056	0.022
WaldVCF	1000	1000	4	0.106	0.055	0.022
WaldDiag,MM3	1000	1000	4	0.083	0.049	0.013
Pearson,MM3	1000	1000	4	0.092	0.050	0.016
RSS,MM3	1000	1000	4	0.097	0.055	0.016
Multn,MM3	1000	1000	4	0.106	0.055	0.022
1F 8V						
Wald	1000	1000	5	0.102	0.062	0.012
WaldVCF	1000	1000	5	0.102	0.060	0.011
WaldDiag,MM3	1000	1000	5	0.098	0.058	0.009
Pearson,MM3	1000	1000	5	0.089	0.047	0.005
RSS,MM3	1000	1000	5	0.089	0.052	0.006
Multn,MM3	1000	1000	5	0.102	0.060	0.011
1F 15V						
Wald	1000	1000	48	0.137	0.062	0.017
WaldVCF	1000	1000	48	0.133	0.059	0.016
WaldDiag,MM3	1000	1000	48	0.135	0.073	0.010
Pearson,MM3	1000	1000	48	0.100	0.049	0.007
RSS,MM3	1000	1000	48	0.109	0.051	0.007
Multn,MM3	1000	1000	48	0.133	0.060	0.016
2F 10V						
Wald	1000	1000	29	0.134	0.060	0.017
WaldVCF	1000	1000	29	0.127	0.057	0.014
WaldDiag,MM3	1000	1000	29	0.116	0.056	0.014
Pearson,MM3	1000	1000	29	0.106	0.050	0.017
RSS,MM3	1000	1000	29	0.108	0.061	0.018
Multn,MM3	1000	1000	29	0.126	0.056	0.014
3F 15V						
Wald	1000	1000	87	0.128	0.082	0.026
WaldVCF	1000	1000	87	0.116	0.079	0.020
WaldDiag,MM3	1000	1000	87	0.119	0.061	0.015
Pearson,MM3	1000	1000	87	0.117	0.051	0.012
RSS,MM3	1000	1000	87	0.124	0.067	0.010
Multn,MM3	1000	1000	87	0.119	0.080	0.021

Power ($n = 500$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.978	0.964	0.877
WaldVCF	1000	1000	0	0.977	0.961	0.871
WaldDiag,MM3	1000	1000	0	0.931	0.874	0.663
Pearson,MM3	1000	1000	0	0.977	0.962	0.883
RSS,MM3	1000	1000	0	0.987	0.970	0.912
Multn,MM3	1000	1000	0	0.978	0.960	0.873
1F 8V						
Wald	1000	1000	0	0.351	0.241	0.093
WaldVCF	1000	1000	0	0.301	0.189	0.061
WaldDiag,MM3	1000	1000	0	0.110	0.050	0.005
Pearson,MM3	1000	1000	0	0.336	0.204	0.068
RSS,MM3	1000	1000	0	0.348	0.218	0.069
Multn,MM3	1000	1000	0	0.299	0.182	0.056
1F 15V						
Wald	1000	1000	1	1.000	1.000	0.998
WaldVCF	1000	1000	1	1.000	0.999	0.993
WaldDiag,MM3	1000	1000	1	0.998	0.993	0.949
Pearson,MM3	1000	1000	1	0.990	0.973	0.873
RSS,MM3	1000	1000	1	0.997	0.992	0.962
Multn,MM3	1000	1000	1	1.000	1.000	0.997
2F 10V						
Wald	1000	1000	12	0.796	0.721	0.538
WaldVCF	1000	1000	12	0.521	0.379	0.161
WaldDiag,MM3	1000	1000	12	0.397	0.248	0.072
Pearson,MM3	1000	1000	12	0.453	0.295	0.110
RSS,MM3	1000	1000	12	0.506	0.357	0.147
Multn,MM3	1000	1000	12	0.728	0.636	0.405
3F 15V						
Wald	1000	1000	17	1.000	0.999	0.990
WaldVCF	1000	1000	17	0.999	0.996	0.971
WaldDiag,MM3	1000	1000	17	0.997	0.995	0.959
Pearson,MM3	1000	1000	17	1.000	1.000	0.999
RSS,MM3	1000	1000	17	1.000	1.000	0.999
Multn,MM3	1000	1000	17	1.000	0.999	0.986

Power ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.333	0.234	0.096
WaldVCF	1000	1000	0	0.314	0.210	0.078
WaldDiag,MM3	1000	1000	0	0.216	0.123	0.027
Pearson,MM3	1000	1000	0	0.286	0.172	0.051
RSS,MM3	1000	1000	0	0.305	0.204	0.067
Multn,MM3	1000	1000	0	0.321	0.217	0.083
1F 8V						
Wald	1000	1000	0	0.945	0.910	0.773
WaldVCF	1000	1000	0	0.889	0.792	0.538
WaldDiag,MM3	1000	1000	0	0.802	0.675	0.372
Pearson,MM3	1000	1000	0	0.720	0.542	0.277
RSS,MM3	1000	1000	0	0.788	0.672	0.390
Multn,MM3	1000	1000	0	0.939	0.895	0.739
1F 15V						
Wald	1000	1000	12	0.902	0.823	0.627
WaldVCF	1000	1000	12	0.578	0.427	0.179
WaldDiag,MM3	1000	1000	12	0.460	0.313	0.106
Pearson,MM3	1000	1000	12	0.856	0.761	0.534
RSS,MM3	1000	1000	12	0.836	0.742	0.521
Multn,MM3	1000	1000	12	0.843	0.737	0.521
2F 10V						
Wald	1000	1000	10	0.267	0.173	0.051
WaldVCF	1000	1000	10	0.179	0.081	0.022
WaldDiag,MM3	1000	1000	10	0.117	0.055	0.008
Pearson,MM3	1000	1000	10	0.147	0.081	0.009
RSS,MM3	1000	1000	10	0.144	0.080	0.014
Multn,MM3	1000	1000	10	0.265	0.170	0.054
3F 15V						
Wald	1000	1000	27	0.633	0.501	0.234
WaldVCF	1000	1000	27	0.421	0.275	0.085
WaldDiag,MM3	1000	1000	27	0.372	0.218	0.060
Pearson,MM3	1000	1000	27	0.714	0.592	0.363
RSS,MM3	1000	1000	27	0.676	0.543	0.307
Multn,MM3	1000	1000	27	0.674	0.554	0.296

Power ($n = 2000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Power ($n = 3000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Power ($n = 5000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	1.000	0.999	0.994
WaldVCF	1000	1000	0	1.000	0.998	0.993
WaldDiag,MM3	1000	1000	0	0.996	0.986	0.926
Pearson,MM3	1000	1000	0	1.000	1.000	0.997
RSS,MM3	1000	1000	0	1.000	1.000	0.997
Multn,MM3	1000	1000	0	1.000	0.998	0.993
1F 8V						
Wald	1000	1000	0	1.000	1.000	1.000
WaldVCF	1000	1000	0	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	0	1.000	1.000	1.000
Pearson,MM3	1000	1000	0	1.000	1.000	1.000
RSS,MM3	1000	1000	0	1.000	1.000	1.000
Multn,MM3	1000	1000	0	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	17	1.000	1.000	1.000
WaldVCF	1000	1000	17	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	17	1.000	1.000	1.000
Pearson,MM3	1000	1000	17	1.000	1.000	1.000
RSS,MM3	1000	1000	17	1.000	1.000	1.000
Multn,MM3	1000	1000	17	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	14	0.809	0.705	0.479
WaldVCF	1000	1000	14	0.785	0.687	0.450
WaldDiag,MM3	1000	1000	14	0.803	0.669	0.416
Pearson,MM3	1000	1000	14	0.787	0.650	0.367
RSS,MM3	1000	1000	14	0.849	0.765	0.515
Multn,MM3	1000	1000	14	0.811	0.709	0.484
3F 15V						
Wald	1000	1000	30	0.975	0.944	0.837
WaldVCF	1000	1000	30	0.960	0.916	0.782
WaldDiag,MM3	1000	1000	30	0.996	0.988	0.943
Pearson,MM3	1000	1000	30	0.993	0.978	0.910
RSS,MM3	1000	1000	30	0.995	0.989	0.939
Multn,MM3	1000	1000	30	0.975	0.944	0.842

Power ($n = 10000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	2	1.000	0.997	0.991
WaldVCF	1000	1000	2	1.000	0.997	0.991
WaldDiag,MM3	1000	1000	2	0.998	0.996	0.984
Pearson,MM3	1000	1000	2	1.000	0.998	0.989
RSS,MM3	1000	1000	2	1.000	1.000	0.993
Multn,MM3	1000	1000	2	1.000	0.997	0.991
1F 8V						
Wald	1000	1000	3	1.000	1.000	1.000
WaldVCF	1000	1000	3	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	3	1.000	1.000	1.000
Pearson,MM3	1000	1000	3	1.000	1.000	1.000
RSS,MM3	1000	1000	3	1.000	1.000	1.000
Multn,MM3	1000	1000	3	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	31	1.000	1.000	1.000
WaldVCF	1000	1000	31	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	31	1.000	1.000	1.000
Pearson,MM3	1000	1000	31	1.000	1.000	1.000
RSS,MM3	1000	1000	31	1.000	1.000	1.000
Multn,MM3	1000	1000	31	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	19	1.000	1.000	1.000
WaldVCF	1000	1000	19	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	19	1.000	1.000	1.000
Pearson,MM3	1000	1000	19	1.000	1.000	1.000
RSS,MM3	1000	1000	19	1.000	1.000	1.000
Multn,MM3	1000	1000	19	1.000	1.000	1.000
3F 15V						
Wald	1000	1000	66	1.000	1.000	1.000
WaldVCF	1000	1000	66	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	66	1.000	1.000	1.000
Pearson,MM3	1000	1000	66	1.000	1.000	1.000
RSS,MM3	1000	1000	66	1.000	1.000	1.000
Multn,MM3	1000	1000	66	1.000	1.000	1.000

Strat-clust sampling

Type I errors ($n = 500$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.129	0.068	0.012
WaldVCF	1000	1000	2	0.123	0.060	0.010
WaldDiag,MM3	1000	1000	2	0.098	0.048	0.005
Pearson,MM3	1000	1000	2	0.117	0.062	0.009
RSS,MM3	1000	1000	2	0.114	0.059	0.011
Multn,MM3	1000	1000	2	0.125	0.064	0.011
1F 8V						
Wald	1000	1000	3	0.148	0.085	0.028
WaldVCF	1000	1000	3	0.112	0.056	0.015
WaldDiag,MM3	1000	1000	3	0.050	0.022	0.005
Pearson,MM3	1000	1000	3	0.090	0.045	0.010
RSS,MM3	1000	1000	3	0.090	0.043	0.010
Multn,MM3	1000	1000	3	0.120	0.065	0.017
1F 15V						
Wald	1000	1000	4	0.145	0.086	0.024
WaldVCF	1000	1000	4	0.125	0.065	0.016
WaldDiag,MM3	1000	1000	4	0.109	0.053	0.005
Pearson,MM3	1000	1000	4	0.141	0.081	0.022
RSS,MM3	1000	1000	4	0.146	0.083	0.017
Multn,MM3	1000	1000	4	0.140	0.076	0.022
2F 10V						
Wald	1000	1000	3	0.301	0.192	0.091
WaldVCF	1000	1000	3	0.131	0.073	0.015
WaldDiag,MM3	1000	1000	3	0.071	0.036	0.005
Pearson,MM3	1000	1000	3	0.118	0.062	0.016
RSS,MM3	1000	1000	3	0.112	0.065	0.012
Multn,MM3	1000	1000	3	0.221	0.143	0.050
3F 15V						
Wald	1000	1000	23	0.261	0.161	0.043
WaldVCF	1000	1000	23	0.173	0.095	0.017
WaldDiag,MM3	1000	1000	23	0.123	0.065	0.009
Pearson,MM3	1000	1000	23	0.161	0.093	0.022
RSS,MM3	1000	1000	23	0.171	0.104	0.021
Multn,MM3	1000	1000	23	0.273	0.171	0.047

Type I errors ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.122	0.067	0.012
WaldVCF	1000	1000	1	0.106	0.053	0.007
WaldDiag,MM3	1000	1000	1	0.056	0.018	0.005
Pearson,MM3	1000	1000	1	0.100	0.051	0.010
RSS,MM3	1000	1000	1	0.103	0.049	0.009
Multn,MM3	1000	1000	1	0.109	0.058	0.009
1F 8V						
Wald	1000	1000	3	0.198	0.115	0.037
WaldVCF	1000	1000	3	0.132	0.070	0.012
WaldDiag,MM3	1000	1000	3	0.080	0.041	0.009
Pearson,MM3	1000	1000	3	0.132	0.066	0.018
RSS,MM3	1000	1000	3	0.132	0.064	0.021
Multn,MM3	1000	1000	3	0.169	0.100	0.027
1F 15V						
Wald	1000	1000	14	0.453	0.319	0.127
WaldVCF	1000	1000	14	0.166	0.087	0.025
WaldDiag,MM3	1000	1000	14	0.099	0.037	0.002
Pearson,MM3	1000	1000	14	0.166	0.099	0.019
RSS,MM3	1000	1000	14	0.164	0.087	0.021
Multn,MM3	1000	1000	14	0.436	0.318	0.136
2F 10V						
Wald	1000	1000	11	0.189	0.118	0.039
WaldVCF	1000	1000	11	0.134	0.070	0.021
WaldDiag,MM3	1000	1000	11	0.069	0.029	0.004
Pearson,MM3	1000	1000	11	0.123	0.057	0.015
RSS,MM3	1000	1000	11	0.126	0.061	0.011
Multn,MM3	1000	1000	11	0.197	0.118	0.041
3F 15V						
Wald	1000	1000	29	0.350	0.234	0.076
WaldVCF	1000	1000	29	0.185	0.096	0.017
WaldDiag,MM3	1000	1000	29	0.087	0.037	0.004
Pearson,MM3	1000	1000	29	0.144	0.069	0.010
RSS,MM3	1000	1000	29	0.148	0.069	0.012
Multn,MM3	1000	1000	29	0.412	0.276	0.113

Type I errors ($n = 2000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Type I errors ($n = 3000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Type I errors ($n = 5000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	3	0.120	0.061	0.013
WaldVCF	1000	1000	3	0.118	0.058	0.013
WaldDiag,MM3	1000	1000	3	0.099	0.059	0.009
Pearson,MM3	1000	1000	3	0.108	0.055	0.012
RSS,MM3	1000	1000	3	0.113	0.057	0.013
Multn,MM3	1000	1000	3	0.118	0.059	0.013
1F 8V						
Wald	1000	1000	2	0.132	0.070	0.016
WaldVCF	1000	1000	2	0.130	0.064	0.015
WaldDiag,MM3	1000	1000	2	0.103	0.052	0.011
Pearson,MM3	1000	1000	2	0.139	0.076	0.024
RSS,MM3	1000	1000	2	0.144	0.076	0.019
Multn,MM3	1000	1000	2	0.133	0.070	0.016
1F 15V						
Wald	1000	1000	33	0.225	0.131	0.034
WaldVCF	1000	1000	33	0.185	0.091	0.024
WaldDiag,MM3	1000	1000	33	0.143	0.065	0.016
Pearson,MM3	1000	1000	33	0.191	0.119	0.028
RSS,MM3	1000	1000	33	0.204	0.108	0.029
Multn,MM3	1000	1000	33	0.236	0.138	0.040
2F 10V						
Wald	1000	1000	20	0.156	0.081	0.019
WaldVCF	1000	1000	20	0.143	0.071	0.012
WaldDiag,MM3	1000	1000	20	0.109	0.048	0.012
Pearson,MM3	1000	1000	20	0.129	0.072	0.016
RSS,MM3	1000	1000	20	0.137	0.073	0.015
Multn,MM3	1000	1000	20	0.157	0.081	0.017
3F 15V						
Wald	1000	1000	58	0.210	0.124	0.035
WaldVCF	1000	1000	58	0.179	0.099	0.026
WaldDiag,MM3	1000	1000	58	0.145	0.067	0.017
Pearson,MM3	1000	1000	58	0.160	0.091	0.025
RSS,MM3	1000	1000	58	0.175	0.097	0.032
Multn,MM3	1000	1000	58	0.209	0.129	0.036

Type I errors ($n = 10000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	2	0.114	0.053	0.016
WaldVCF	1000	1000	2	0.113	0.053	0.016
WaldDiag,MM3	1000	1000	2	0.093	0.042	0.009
Pearson,MM3	1000	1000	2	0.112	0.056	0.015
RSS,MM3	1000	1000	2	0.107	0.054	0.017
Multn,MM3	1000	1000	2	0.112	0.053	0.016
1F 8V						
Wald	1000	1000	12	0.118	0.060	0.013
WaldVCF	1000	1000	12	0.114	0.057	0.012
WaldDiag,MM3	1000	1000	12	0.095	0.049	0.009
Pearson,MM3	1000	1000	12	0.136	0.075	0.014
RSS,MM3	1000	1000	12	0.144	0.076	0.018
Multn,MM3	1000	1000	12	0.114	0.057	0.012
1F 15V						
Wald	1000	1000	34	0.178	0.102	0.025
WaldVCF	1000	1000	34	0.177	0.099	0.024
WaldDiag,MM3	1000	1000	34	0.154	0.083	0.013
Pearson,MM3	1000	1000	34	0.203	0.129	0.036
RSS,MM3	1000	1000	34	0.204	0.131	0.032
Multn,MM3	1000	1000	34	0.177	0.099	0.024
2F 10V						
Wald	1000	1000	25	0.164	0.101	0.030
WaldVCF	1000	1000	25	0.161	0.095	0.028
WaldDiag,MM3	1000	1000	25	0.133	0.068	0.016
Pearson,MM3	1000	1000	25	0.155	0.081	0.021
RSS,MM3	1000	1000	25	0.152	0.094	0.026
Multn,MM3	1000	1000	25	0.160	0.094	0.028
3F 15V						
Wald	1000	1000	66	0.202	0.115	0.029
WaldVCF	1000	1000	66	0.182	0.104	0.024
WaldDiag,MM3	1000	1000	66	0.141	0.077	0.020
Pearson,MM3	1000	1000	66	0.168	0.092	0.026
RSS,MM3	1000	1000	66	0.172	0.098	0.031
Multn,MM3	1000	1000	66	0.182	0.102	0.025

Power ($n = 500$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.911	0.855	0.679
WaldVCF	1000	1000	1	0.910	0.850	0.670
WaldDiag,MM3	1000	1000	1	0.856	0.760	0.501
Pearson,MM3	1000	1000	1	0.947	0.900	0.782
RSS,MM3	1000	1000	1	0.947	0.902	0.781
Multn,MM3	1000	1000	1	0.909	0.851	0.667
1F 8V						
Wald	1000	1000	1	0.300	0.206	0.078
WaldVCF	1000	1000	1	0.259	0.158	0.054
WaldDiag,MM3	1000	1000	1	0.113	0.043	0.003
Pearson,MM3	1000	1000	1	0.249	0.135	0.049
RSS,MM3	1000	1000	1	0.251	0.145	0.052
Multn,MM3	1000	1000	1	0.246	0.145	0.042
1F 15V						
Wald	1000	1000	2	1.000	1.000	0.997
WaldVCF	1000	1000	2	1.000	1.000	0.994
WaldDiag,MM3	1000	1000	2	0.997	0.993	0.960
Pearson,MM3	1000	1000	2	0.994	0.973	0.860
RSS,MM3	1000	1000	2	0.997	0.995	0.969
Multn,MM3	1000	1000	2	1.000	1.000	0.996
2F 10V						
Wald	1000	1000	0	0.718	0.607	0.400
WaldVCF	1000	1000	0	0.435	0.290	0.114
WaldDiag,MM3	1000	1000	0	0.307	0.174	0.042
Pearson,MM3	1000	1000	0	0.308	0.185	0.054
RSS,MM3	1000	1000	0	0.386	0.249	0.077
Multn,MM3	1000	1000	0	0.644	0.519	0.302
3F 15V						
Wald	1000	1000	8	0.998	0.996	0.966
WaldVCF	1000	1000	8	0.996	0.987	0.926
WaldDiag,MM3	1000	1000	8	0.987	0.976	0.896
Pearson,MM3	1000	1000	8	1.000	1.000	0.998
RSS,MM3	1000	1000	8	1.000	1.000	0.998
Multn,MM3	1000	1000	8	0.998	0.995	0.965

Power ($n = 1000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	0	0.495	0.386	0.193
WaldVCF	1000	1000	0	0.477	0.361	0.173
WaldDiag,MM3	1000	1000	0	0.353	0.236	0.083
Pearson,MM3	1000	1000	0	0.520	0.405	0.205
RSS,MM3	1000	1000	0	0.534	0.417	0.215
Multn,MM3	1000	1000	0	0.471	0.360	0.173
1F 8V						
Wald	1000	1000	4	0.929	0.877	0.709
WaldVCF	1000	1000	4	0.864	0.771	0.477
WaldDiag,MM3	1000	1000	4	0.708	0.532	0.248
Pearson,MM3	1000	1000	4	0.659	0.491	0.220
RSS,MM3	1000	1000	4	0.785	0.650	0.358
Multn,MM3	1000	1000	4	0.922	0.869	0.680
1F 15V						
Wald	1000	1000	6	0.918	0.874	0.704
WaldVCF	1000	1000	6	0.625	0.486	0.225
WaldDiag,MM3	1000	1000	6	0.627	0.493	0.227
Pearson,MM3	1000	1000	6	0.821	0.715	0.482
RSS,MM3	1000	1000	6	0.825	0.716	0.472
Multn,MM3	1000	1000	6	0.891	0.827	0.609
2F 10V						
Wald	1000	1000	9	0.535	0.394	0.214
WaldVCF	1000	1000	9	0.376	0.263	0.095
WaldDiag,MM3	1000	1000	9	0.365	0.239	0.073
Pearson,MM3	1000	1000	9	0.301	0.176	0.042
RSS,MM3	1000	1000	9	0.349	0.223	0.071
Multn,MM3	1000	1000	9	0.529	0.391	0.209
3F 15V						
Wald	1000	1000	41	0.723	0.582	0.344
WaldVCF	1000	1000	41	0.513	0.366	0.134
WaldDiag,MM3	1000	1000	41	0.513	0.362	0.139
Pearson,MM3	1000	1000	41	0.644	0.533	0.293
RSS,MM3	1000	1000	41	0.660	0.544	0.281
Multn,MM3	1000	1000	41	0.744	0.622	0.376

Power ($n = 2000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Power ($n = 3000$)

					Rejection rate		
1F 5V							
1F 8V							
1F 15V							
2F 10V							
3F 15V							
	Name	No. repl.	Converged	Rank def.	10%	5%	1%

Power ($n = 5000$)

Name	No. repl.	Converged	Rank def.	Rejection rate 10%	5%	1%
1F 5V						
Wald	1000	1000	1	0.997	0.990	0.944
WaldVCF	1000	1000	1	0.996	0.990	0.943
WaldDiag,MM3	1000	1000	1	0.993	0.976	0.894
Pearson,MM3	1000	1000	1	0.994	0.979	0.915
RSS,MM3	1000	1000	1	0.997	0.989	0.950
Multn,MM3	1000	1000	1	0.996	0.990	0.943
1F 8V						
Wald	1000	1000	1	1.000	1.000	1.000
WaldVCF	1000	1000	1	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	1	1.000	1.000	1.000
Pearson,MM3	1000	1000	1	1.000	1.000	1.000
RSS,MM3	1000	1000	1	1.000	1.000	1.000
Multn,MM3	1000	1000	1	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	12	1.000	1.000	1.000
WaldVCF	1000	1000	12	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	12	1.000	1.000	1.000
Pearson,MM3	1000	1000	12	1.000	1.000	1.000
RSS,MM3	1000	1000	12	1.000	1.000	1.000
Multn,MM3	1000	1000	12	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	5	0.943	0.885	0.739
WaldVCF	1000	1000	5	0.918	0.856	0.675
WaldDiag,MM3	1000	1000	5	0.946	0.892	0.733
Pearson,MM3	1000	1000	5	0.797	0.674	0.373
RSS,MM3	1000	1000	5	0.878	0.787	0.569
Multn,MM3	1000	1000	5	0.941	0.887	0.748
3F 15V						
Wald	1000	1000	42	0.967	0.938	0.806
WaldVCF	1000	1000	42	0.956	0.913	0.762
WaldDiag,MM3	1000	1000	42	0.979	0.963	0.845
Pearson,MM3	1000	1000	42	0.993	0.989	0.969
RSS,MM3	1000	1000	42	0.992	0.988	0.970
Multn,MM3	1000	1000	42	0.967	0.937	0.812

Power ($n = 10000$)

				Rejection rate		
Name	No. repl.	Converged	Rank def.	10%	5%	1%
1F 5V						
Wald	1000	1000	0	1.000	1.000	1.000
WaldVCF	1000	1000	0	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	0	1.000	1.000	0.999
Pearson,MM3	1000	1000	0	1.000	1.000	1.000
RSS,MM3	1000	1000	0	1.000	1.000	1.000
Multn,MM3	1000	1000	0	1.000	1.000	1.000
1F 8V						
Wald	1000	1000	0	1.000	1.000	1.000
WaldVCF	1000	1000	0	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	0	1.000	1.000	1.000
Pearson,MM3	1000	1000	0	1.000	1.000	1.000
RSS,MM3	1000	1000	0	1.000	1.000	1.000
Multn,MM3	1000	1000	0	1.000	1.000	1.000
1F 15V						
Wald	1000	1000	20	1.000	1.000	1.000
WaldVCF	1000	1000	20	1.000	1.000	1.000
WaldDiag,MM3	1000	1000	20	1.000	1.000	1.000
Pearson,MM3	1000	1000	20	1.000	1.000	1.000
RSS,MM3	1000	1000	20	1.000	1.000	1.000
Multn,MM3	1000	1000	20	1.000	1.000	1.000
2F 10V						
Wald	1000	1000	14	0.994	0.990	0.962
WaldVCF	1000	1000	14	0.994	0.987	0.948
WaldDiag,MM3	1000	1000	14	0.997	0.994	0.963
Pearson,MM3	1000	1000	14	0.993	0.989	0.953
RSS,MM3	1000	1000	14	0.997	0.993	0.982
Multn,MM3	1000	1000	14	0.994	0.989	0.959
3F 15V						
Wald	1000	1000	57	0.997	0.995	0.964
WaldVCF	1000	1000	57	0.997	0.992	0.958
WaldDiag,MM3	1000	1000	57	0.999	0.995	0.981
Pearson,MM3	1000	1000	57	1.000	0.998	0.988
RSS,MM3	1000	1000	57	1.000	0.999	0.993
Multn,MM3	1000	1000	57	0.997	0.995	0.966