Parametric Reconciliation

Gaussian DGP

```
## Joining, by = c("F.method", "R.method", "Forecast.Horizon")
```

	Log Score(%)			Energy Score(%)			Variogram Score(%)		
R.method	1	2	3	1	2	3	1	2	3
Base	NA	NA	NA	12.32235	15.76412	19.57850	5.001194	6.172704	7.760141
Bottom up	12.59673	13.70563	15.08012	14.07640	17.43469	21.09481	5.259493	6.559331	8.256816
OLS	11.89640	13.91763	16.69925	11.70797	15.09283	18.89254	4.777345	5.927901	7.511890
WLS	11.75824	14.08858	17.46094	11.39373	14.75995	18.58899	4.653399	5.756615	7.297708
MinT.Sam	11.62280	14.06057	17.65379	11.04258	14.40753	18.22491	4.431587	5.526223	6.976425
MinT.Shr	11.62636	14.06579	17.66163	11.05902	14.41382	18.22533	4.436607	5.511178	6.970167
Optimal	11.92805	13.31347	14.43456	12.93906	15.03670	17.90912	6.002345	6.323151	7.714101

Non Gaussian DGP

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## Joining, by = c("F.method", "R.method", "Forecast.Horizon")
```

	Log Score(%)			Energy Score(%)			Variogram Score(%)		
R.method	1	2	3	1	2	3	1	2	3
Base	NA	NA	NA	5.524133	5.727146	5.977885	0.6271626	0.6276617	0.6334380
Bottom up	8.827058	9.043168	9.267914	5.951316	6.182513	6.436886	0.6244397	0.6254909	0.6320369
OLS	7.757864	8.366582	9.417041	5.372220	5.547006	5.781927	0.6213164	0.6222688	0.6265287
WLS	7.079121	8.902229	12.895008	5.284879	5.440421	5.695116	0.6213914	0.6225991	0.6280985
MinT.Sam	6.806104	8.619375	12.643437	5.181487	5.312697	5.572036	0.6133553	0.6119963	0.6189472
MinT.Shr	6.826257	8.642823	12.674350	5.182663	5.308960	5.574846	0.6142515	0.6118864	0.6181152
Optimal	7.136370	8.205556	9.648550	6.148427	5.967599	6.281593	0.7980024	0.7466422	0.7755280

Comparing univariate predictive accuracy in aggregate levels

For h=1

	Gaussian DGP									
R.method	Total.x	A.x	B.x	AA.x	AB.x	BA.x	BB.x	Total.y	A.y	
Base	2.874618	3.551939	3.290826	3.482041	3.474973	3.458013	3.263980	0.6733040	2.465570	2.60
Bottom up	3.725285	3.658132	3.430267	3.482041	3.474973	3.458013	3.263980	2.4465362	2.483223	2.69
MinT.Sam	2.876516	3.381401	3.273194	3.347527	3.369980	3.340480	3.260714	0.6717199	2.454769	2.46
MinT.Shr	2.876088	3.381581	3.272996	3.348015	3.372314	3.341099	3.260661	0.6714691	2.454465	2.46
OLS	3.055019	3.462861	3.276626	3.412488	3.421360	3.375277	3.282471	1.3806119	2.456295	2.53
Optimal	2.999502	3.503108	3.403869	3.484614	3.518389	3.484289	3.405185	0.8142908	2.598026	2.60
WLS	2.921539	3.413468	3.278217	3.393524	3.414103	3.364357	3.276050	0.6745358	2.473754	2.48

	Gaussian DGP									
R.method	Total.x	A.x	B.x	AA.x	AB.x	BA.x	BB.x	Total.y	A.y	
Base	2.411244	4.767324	3.651962	4.444156	4.432011	4.324994	3.567348	0.2689040	1.593912	1.82
Bottom up	5.643752	5.291369	4.214981	4.446563	4.438028	4.330519	3.571927	1.5731028	1.616390	1.99
MinT.Sam	2.415998	4.012274	3.587888	3.889721	3.979671	3.835859	3.557354	0.2682503	1.572544	1.59
MinT.Shr	2.415919	4.019515	3.593770	3.897540	3.989557	3.838976	3.558929	0.2681921	1.569693	1.58
OLS	2.881321	4.364252	3.609081	4.144313	4.192124	3.975822	3.633933	0.5412450	1.573259	1.70
Optimal	2.790191	4.606755	4.205115	4.558508	4.692660	4.540214	4.229448	0.3119676	1.862122	1.88
WLS	2.522708	4.149288	3.618255	4.070370	4.159683	3.935676	3.611157	0.2693134	1.601013	1.62

For h=2

	Gaussian DGP									
R.method	Total.x	A.x	B.x	AA.x	AB.x	BA.x	BB.x	Total.y	A.y	
Base	4.709457	4.041486	3.477736	3.648605	3.642096	3.601957	3.273843	2.400796	2.485289	2.698
Bottom up	4.244590	4.070577	3.626701	3.648605	3.642096	3.601957	3.273843	2.594158	2.492651	2.782
MinT.Sam	4.722468	3.934191	3.458031	3.520512	3.536973	3.449366	3.279146	2.401241	2.474522	2.514
MinT.Shr	4.723090	3.936371	3.458183	3.519186	3.539920	3.448763	3.277752	2.402247	2.474844	2.515
OLS	4.470412	3.988385	3.460432	3.576162	3.593007	3.493952	3.309015	1.914376	2.480217	2.609
Optimal	4.111939	3.822631	3.451738	3.537768	3.583178	3.484182	3.350170	1.808089	2.559410	2.579
WLS	4.650123	3.957990	3.461434	3.554294	3.581415	3.475973	3.300302	2.394540	2.506936	2.546

	Gaussian DGP									
R.method	Total.x	A.x	B.x	AA.x	AB.x	BA.x	BB.x	Total.y	A.y	
Base	5.581245	6.765598	4.313428	5.132154	5.145290	4.941959	3.605066	0.6332903	1.623434	2.00
Bottom up	8.115389	7.111432	5.039110	5.130909	5.147650	4.944645	3.609303	1.8071575	1.632239	2.16
MinT.Sam	5.588636	5.944354	4.221599	4.558082	4.636529	4.241984	3.620240	0.6316537	1.602481	1.66
MinT.Shr	5.585851	5.951638	4.224945	4.547548	4.658506	4.250815	3.610339	0.6312885	1.600118	1.66
OLS	5.882334	6.299895	4.242563	4.782149	4.903439	4.442975	3.713187	0.8057668	1.612963	1.83
Optimal	5.686439	6.036277	4.319064	4.755691	4.989470	4.531028	3.930211	0.6024628	1.767756	1.80
WLS	5.654845	6.090198	4.246020	4.694871	4.851666	4.368953	3.683728	0.6317406	1.653889	1.72

For h=3

	Gaussian DGP									
R.method	Total.x	A.x	B.x	AA.x	AB.x	BA.x	BB.x	Total.y	A.y	
Base	7.453699	4.644402	3.716011	3.880163	3.844478	3.777589	3.289991	6.327629	2.501002	2.796
Bottom up	4.895638	4.588426	3.863479	3.880163	3.844478	3.777589	3.289991	2.759085	2.504655	2.876
MinT.Sam	7.483420	4.703099	3.699196	3.791425	3.716904	3.597440	3.300229	6.333452	2.484759	2.634
MinT.Shr	7.484720	4.705623	3.698821	3.791136	3.720901	3.594953	3.298072	6.338000	2.485152	2.634
OLS	6.499897	4.676065	3.698036	3.833939	3.787635	3.650758	3.341185	2.912024	2.489219	2.715
Optimal	4.833735	4.156651	3.597560	3.739409	3.663271	3.574393	3.377192	3.086346	2.567235	2.676
WLS	7.205385	4.692991	3.697739	3.818277	3.773060	3.627520	3.329409	6.307755	2.516030	2.658

	Gaussian DGP									
R.method	Total.x	A.x	B.x	AA.x	AB.x	BA.x	BB.x	Total.y	A.y	
Base	8.738500	8.771685	5.099207	6.048969	5.888411	5.614101	3.663773	1.1366041	1.649001	2.1
Bottom up	10.669505	9.080727	5.920322	6.051282	5.893761	5.612808	3.664045	2.0507619	1.654854	2.3
MinT.Sam	8.737144	8.071107	4.986438	5.502641	5.264404	4.756646	3.697592	1.1341843	1.618039	1.8
MinT.Shr	8.741505	8.079754	4.980093	5.499085	5.274447	4.747891	3.689114	1.1348852	1.620213	1.8
OLS	8.904323	8.362292	4.995077	5.739766	5.587087	4.995957	3.830455	1.1910692	1.624961	1.9
Optimal	7.870678	7.621510	5.003562	5.633224	5.317091	4.928410	4.027360	0.9651236	1.792559	1.9
WLS	8.768724	8.181102	4.994356	5.657791	5.518338	4.895696	3.793749	1.1346669	1.668867	1.8