VAR tables for post-war quarterly data

	O	LS	M	LE	UN	<b>ILE</b>	Rest	MLE	Rest	UMLE
	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate	$\overline{\text{Growth}}$	Int. rate
Coefficients										
Constant	0.72	-0.06	0.72	-0.06	0.72	-0.06	0.72	-0.06	0.72	-0.06
	(0.117)	(0.028)	(0.119)	(0.028)	(0.116)	(0.027)	(0.134)	(0.026)	(0.125)	(0.022)
LR Mean	1.57	1.19	1.57	1.19	1.54	1.15	1.84	1.87	1.84	1.87
	(0.197)	(0.437)	(0.2)	(0.444)	(0.173)	(0.37)	(0.563)	(1.412)	(0.338)	(0.85)
Growth (-1)	0.43	0.09	0.43	0.09	0.43	0.09	0.43	0.09	0.43	0.09
	(0.062)	(0.015)	(0.063)	(0.015)	(0.064)	(0.015)	(0.07)	(0.014)	(0.07)	(0.014)
Int. rate (-1)	0.15	0.94	0.15	0.94	0.15	0.93	0.18	0.95	0.18	0.95
	(0.069)	(0.016)	(0.07)	(0.016)	(0.069)	(0.016)	(0.085)	(0.027)	(0.07)	(0.02)
Innov. covar.										
Growth	0.7		0.69		0.7		0.69		0.69	
			(0.066)		(0.067)		(0.109)		(0.107)	
Int. rate	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04
			(0.011)	(0.004)	(0.012)	(0.004)	(0.022)	(0.01)	(0.022)	(0.01)
Log likelihood	22	20.4	22	20.4	22	23.5	22	21.2	22	4.9

Table 1: 1-lag test VAR for USA. In restricted MLEs, mean difference is 0.0275

	О	LS	M	LE	UN	ALE	Rest	MLE	Rest	UMLE
	Growth	Int. rate								
Coefficients										
Constant	0.39	-0.07	0.39	-0.07	0.37	-0.07	0.37	-0.08	0.37	-0.08
	(0.138)	(0.033)	(0.143)	(0.034)	(0.139)	(0.033)	(0.149)	(0.033)	(0.135)	(0.032)
LR Mean	1.62	1.27	1.62	1.27	1.54	1.14	1.95	2	1.95	2
	(0.219)	(0.376)	(0.227)	(0.39)	(0.213)	(0.36)	(0.63)	(1.392)	(0.358)	(0.825)
Growth $(-1)$	0.33	0.07	0.33	0.07	0.33	0.07	0.33	0.08	0.33	0.08
	(0.068)	(0.016)	(0.071)	(0.017)	(0.07)	(0.017)	(0.078)	(0.024)	(0.078)	(0.024)
Int. rate (-1)	0.31	1.14	0.31	1.14	0.31	1.14	0.33	1.14	0.33	1.14
	(0.281)	(0.067)	(0.292)	(0.07)	(0.291)	(0.07)	(0.334)	(0.125)	(0.339)	(0.127)
Growth $(-2)$	0.23	0.04	0.23	0.04	0.23	0.04	0.24	0.04	0.24	0.04
	(0.069)	(0.017)	(0.072)	(0.017)	(0.072)	(0.017)	(0.085)	(0.027)	(0.083)	(0.027)
Int. rate $(-2)$	-1.6	-0.49	-1.6	-0.49	-1.6	-0.49	-1.6	-0.49	-1.6	-0.49
	(0.413)	(0.099)	(0.429)	(0.102)	(0.428)	(0.102)	(0.409)	(0.189)	(0.407)	(0.189)
Growth $(-3)$	0.05	0	0.05	0	0.05	0	0.05	0	0.05	0
	(0.071)	(0.017)	(0.074)	(0.018)	(0.073)	(0.018)	(0.078)	(0.019)	(0.08)	(0.019)
Int. rate $(-3)$	1.47	0.49	1.47	0.49	1.46	0.49	1.47	0.49	1.47	0.49
	(0.424)	(0.101)	(0.44)	(0.105)	(0.439)	(0.105)	(0.403)	(0.24)	(0.4)	(0.24)
Growth $(-4)$	0.14	-0.01	0.14	-0.01	0.14	-0.01	0.14	-0.01	0.14	-0.01
	(0.067)	(0.016)	(0.069)	(0.017)	(0.069)	(0.017)	(0.083)	(0.022)	(0.083)	(0.022)
Int. rate $(-4)$	-0.17	-0.22	-0.17	-0.22	-0.17	-0.22	-0.15	-0.21	-0.15	-0.21
	(0.28)	(0.067)	(0.291)	(0.069)	(0.29)	(0.069)	(0.267)	(0.119)	(0.266)	(0.12)
Innov. covar.										
Growth	0.58		0.58		0.58		0.58		0.58	
			(0.057)		(0.057)		(0.1)		(0.099)	
Int. rate	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			(0.01)	(0.003)	(0.01)	(0.003)	(0.021)	(0.01)	(0.02)	(0.01)
Log likelihood	1	87	1	87	1	89	18	38.2	1	91

Table 2: 4-lag test VAR for USA. In restricted MLEs, mean difference is 0.0475

	О	LS	M	LE	UN	<b>ILE</b>	Rest	MLE	Rest	UMLE
	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate
Coefficients										
Constant	0.55	0.01	0.55	0.01	0.57	0.02	0.54	0	0.54	0
	(0.165)	(0.031)	(0.168)	(0.032)	(0.164)	(0.029)	(0.21)	(0.025)	(0.197)	(0.015)
LR Mean	1.67	1.32	1.67	1.32	1.65	1.28	2.49	2.51	2.49	2.51
	(0.44)	(0.573)	(0.447)	(0.583)	(0.356)	(0.458)	(2.729)	(3.956)	(0.873)	(1.306)
Growth $(-1)$	0.32	0.03	0.32	0.03	0.32	0.03	0.32	0.03	0.32	0.03
	(0.065)	(0.012)	(0.066)	(0.013)	(0.066)	(0.013)	(0.183)	(0.017)	(0.185)	(0.018)
Int. rate (-1)	0.44	0.95	0.44	0.95	0.43	0.94	0.46	0.97	0.46	0.97
	(0.102)	(0.019)	(0.103)	(0.02)	(0.103)	(0.019)	(0.147)	(0.03)	(0.158)	(0.015)
Innov. covar.										
Growth	1.56		1.55		1.55		1.55		1.55	
			(0.151)		(0.151)		(0.603)		(0.6)	
Int. rate	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06
			(0.021)	(0.005)	(0.021)	(0.005)	(0.029)	(0.018)	(0.03)	(0.017)
Log likelihood	35	51.7	35	51.7	35	54.5	35	52.8	35	6.5

Table 3: 1-lag test VAR for FRA. In restricted MLEs, mean difference is 0.025

	О	LS	M	LE	UN	ALE	Rest	MLE	Rest	UMLE
	Growth	Int. rate								
Coefficients										
Constant	0.31	0	0.31	0	0.33	0	0.31	0.01	0.31	0.01
	(0.156)	(0.033)	(0.162)	(0.035)	(0.154)	(0.033)	(0.162)	(0.025)	(0.15)	(0.023)
LR Mean	1.69	1.36	1.69	1.36	1.67	1.3	1.87	1.95	1.87	1.95
	(0.431)	(0.469)	(0.448)	(0.488)	(0.39)	(0.416)	(0.576)	(1.083)	(0.427)	(0.773)
Growth $(-1)$	0.1	0.02	0.1	0.02	0.09	0.02	0.1	0.02	0.1	0.02
	(0.068)	(0.015)	(0.071)	(0.015)	(0.07)	(0.015)	(0.237)	(0.02)	(0.236)	(0.02)
Int. rate $(-1)$	0.72	0.97	0.72	0.97	0.72	0.97	0.72	0.99	0.72	0.99
	(0.319)	(0.068)	(0.332)	(0.071)	(0.33)	(0.071)	(0.345)	(0.123)	(0.344)	(0.12)
Growth $(-2)$	0.36	0.03	0.36	0.03	0.36	0.03	0.36	0.03	0.36	0.03
	(0.068)	(0.014)	(0.07)	(0.015)	(0.07)	(0.015)	(0.127)	(0.017)	(0.126)	(0.016)
Int. rate $(-2)$	-0.78	-0.01	-0.78	-0.01	-0.78	-0.01	-0.78	-0.01	-0.78	-0.01
	(0.444)	(0.095)	(0.461)	(0.099)	(0.46)	(0.099)	(0.481)	(0.165)	(0.481)	(0.165)
Growth $(-3)$	0.17	0.01	0.17	0.01	0.17	0.01	0.17	0.01	0.17	0.01
	(0.068)	(0.015)	(0.071)	(0.015)	(0.071)	(0.015)	(0.079)	(0.013)	(0.079)	(0.013)
Int. rate $(-3)$	0.15	-0.09	0.15	-0.09	0.15	-0.09	0.15	-0.09	0.15	-0.09
	(0.446)	(0.096)	(0.464)	(0.099)	(0.463)	(0.099)	(0.447)	(0.14)	(0.447)	(0.139)
Growth $(-4)$	0.13	-0.01	0.13	-0.01	0.13	-0.01	0.13	-0.02	0.13	-0.02
	(0.069)	(0.015)	(0.072)	(0.015)	(0.071)	(0.015)	(0.092)	(0.01)	(0.092)	(0.01)
Int. rate $(-4)$	-0.02	0.06	-0.02	0.06	-0.02	0.06	-0.02	0.06	-0.02	0.06
	(0.313)	(0.067)	(0.326)	(0.07)	(0.324)	(0.07)	(0.265)	(0.09)	(0.264)	(0.089)
Innov. covar.										
Growth	1.21		1.2		1.2		1.2		1.2	
			(0.12)		(0.12)		(0.44)		(0.441)	
Int. rate	0.03	0.06	0.03	0.06	0.03	0.05	0.03	0.06	0.03	0.06
			(0.018)	(0.006)	(0.018)	(0.006)	(0.023)	(0.018)	(0.023)	(0.018)
Log likelihood	31	8.3	31	.8.3	32	20.8	31	9.8	32	2.8

Table 4: 4-lag test VAR for FRA. In restricted MLEs, mean difference is 0.0852

	О	LS	M	LE	UN	<b>ILE</b>	Rest	MLE	Rest	UMLE
	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate
Coefficients										
Constant	0.51	0.02	0.51	0.02	0.51	0.02	0.48	0	0.48	0
	(0.189)	(0.03)	(0.192)	(0.031)	(0.189)	(0.027)	(0.163)	(0.024)	(0.154)	(0.014)
LR Mean	1.78	1.48	1.78	1.48	1.76	1.46	3.1	3.2	3.1	3.2
	(0.577)	(0.714)	(0.586)	(0.725)	(0.428)	(0.518)	(7.473)	(9.717)	(0.97)	(1.247)
Growth $(-1)$	0.29	0.02	0.29	0.02	0.28	0.02	0.28	0.02	0.28	0.02
	(0.066)	(0.011)	(0.067)	(0.011)	(0.067)	(0.011)	(0.098)	(0.014)	(0.1)	(0.016)
Int. rate (-1)	0.52	0.96	0.52	0.96	0.51	0.96	0.54	0.98	0.54	0.98
	(0.108)	(0.017)	(0.11)	(0.018)	(0.109)	(0.016)	(0.123)	(0.017)	(0.142)	(0.011)
Innov. covar.										
Growth	1.8		1.79		1.78		1.79		1.79	
			(0.172)		(0.171)		(0.248)		(0.249)	
Int. rate	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05
			(0.02)	(0.004)	(0.02)	(0.004)	(0.024)	(0.008)	(0.024)	(0.008)
Log likelihood	34	9.7	34	9.7	3	52	35	60.6	35	4.1

Table 5: 1-lag test VAR for GBR. In restricted MLEs, mean difference is 0.1

	О	LS	M	LE	UN	/ILE	Rest	MLE	Rest	UMLE
	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate
Coefficients										
Constant	0.29	0.01	0.29	0.01	0.32	0.01	0.01	-0.01	0.01	-0.01
	(0.181)	(0.031)	(0.188)	(0.032)	(0.178)	(0.031)	(0.168)	(0.024)	(0.063)	(0.016)
LR Mean	1.82	1.55	1.82	1.55	1.8	1.51	-3.85	-3.77	-3.85	-3.77
	(0.536)	(0.542)	(0.557)	(0.563)	(0.458)	(0.454)	(59.946)	(56.496)	(1.204)	(1.181)
Growth $(-1)$	0.12	0	0.12	0	0.12	0	0.13	0	0.13	0
	(0.068)	(0.012)	(0.07)	(0.012)	(0.07)	(0.012)	(0.101)	(0.017)	(0.094)	(0.017)
Int. rate (-1)	0.9	1.12	0.9	1.12	0.89	1.11	0.94	1.12	0.94	1.12
	(0.399)	(0.068)	(0.414)	(0.07)	(0.412)	(0.07)	(0.424)	(0.114)	(0.419)	(0.112)
Growth $(-2)$	0.25	0.03	0.25	0.03	0.25	0.03	0.26	0.03	0.26	0.03
	(0.065)	(0.011)	(0.068)	(0.011)	(0.067)	(0.011)	(0.085)	(0.014)	(0.082)	(0.013)
Int. rate $(-2)$	-1.45	-0.16	-1.45	-0.16	-1.44	-0.16	-1.46	-0.16	-1.46	-0.16
	(0.593)	(0.101)	(0.616)	(0.105)	(0.614)	(0.105)	(0.546)	(0.183)	(0.543)	(0.183)
Growth $(-3)$	0.3	0.03	0.3	0.03	0.29	0.03	0.3	0.03	0.3	0.03
	(0.066)	(0.011)	(0.069)	(0.012)	(0.068)	(0.012)	(0.082)	(0.014)	(0.087)	(0.014)
Int. rate $(-3)$	0.95	-0.09	0.95	-0.09	0.94	-0.09	0.94	-0.09	0.94	-0.09
	(0.598)	(0.102)	(0.621)	(0.106)	(0.619)	(0.106)	(0.696)	(0.137)	(0.699)	(0.137)
Growth $(-4)$	0.03	0	0.03	0	0.03	0	0.03	0	0.03	0
	(0.069)	(0.012)	(0.072)	(0.012)	(0.071)	(0.012)	(0.098)	(0.015)	(0.095)	(0.015)
Int. rate $(-4)$	-0.24	0.07	-0.24	0.07	-0.24	0.07	-0.13	0.07	-0.13	0.07
	(0.391)	(0.067)	(0.406)	(0.069)	(0.404)	(0.069)	(0.521)	(0.085)	(0.525)	(0.085)
Innov. covar.										
Growth	1.46		1.46		1.45		1.47		1.47	
			(0.144)		(0.143)		(0.212)		(0.205)	
Int. rate	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04
			(0.018)	(0.004)	(0.017)	(0.004)	(0.019)	(0.008)	(0.018)	(0.008)
Log likelihood	31	5.8	31	5.7	31	8.1	31	7.2	32	21.8

Table 6: 4-lag test VAR for GBR. In restricted MLEs, mean difference is 0.086

	О	LS	M	LE	UN	/ILE	Rest	MLE	Rest	UMLE
	Growth	Int. rate								
Coefficients										
Constant	0.59	0	0.59	0	0.57	0	0.54	-0.02	0.54	-0.02
	(0.158)	(0.026)	(0.161)	(0.027)	(0.162)	(0.025)	(0.147)	(0.022)	(0.136)	(0.014)
LR Mean	1.02	0.82	1.02	0.82	1.19	1.11	1.54	1.91	1.54	1.91
	(0.209)	(0.375)	(0.213)	(0.383)	(0.222)	(0.373)	(1.508)	(3.263)	(0.35)	(0.779)
Growth $(-1)$	0.21	0.05	0.21	0.05	0.23	0.05	0.21	0.05	0.21	0.05
	(0.073)	(0.012)	(0.074)	(0.012)	(0.078)	(0.012)	(0.097)	(0.019)	(0.1)	(0.019)
Int. rate (-1)	0.27	0.94	0.27	0.94	0.31	0.94	0.35	0.97	0.35	0.97
	(0.12)	(0.02)	(0.123)	(0.02)	(0.124)	(0.019)	(0.098)	(0.021)	(0.098)	(0.009)
Innov. covar.										
Growth	1.13		1.12		1.18		1.13		1.13	
			(0.121)		(0.128)		(0.172)		(0.154)	
Int. rate	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03
			(0.014)	(0.003)	(0.015)	(0.003)	(0.016)	(0.007)	(0.015)	(0.007)
Log likelihood	20	1.2	20	)1.2	20	8.9	20	3.5	21	0.6

Table 7: 1-lag test VAR for DEU. In restricted MLEs, mean difference is 0.375

	О	LS	M	LE	UN	ALE	Rest	MLE	Rest	UMLE
	Growth	Int. rate								
Coefficients										
Constant	0.34	0.01	0.34	0.01	0.36	0.02	0.32	0.04	0.32	0.04
	(0.161)	(0.027)	(0.169)	(0.028)	(0.164)	(0.028)	(0.164)	(0.032)	(0.148)	(0.031)
LR Mean	1.02	0.98	1.02	0.98	1.12	1.09	0.9	1.17	0.9	1.17
	(0.225)	(0.251)	(0.236)	(0.264)	(0.226)	(0.246)	(0.279)	(0.286)	(0.248)	(0.262)
Growth $(-1)$	0.09	0.05	0.09	0.05	0.09	0.05	0.09	0.05	0.09	0.05
	(0.073)	(0.012)	(0.076)	(0.013)	(0.077)	(0.013)	(0.092)	(0.02)	(0.092)	(0.019)
Int. rate $(-1)$	0.26	1.03	0.26	1.03	0.27	1.03	0.23	1.06	0.23	1.06
	(0.457)	(0.077)	(0.479)	(0.08)	(0.483)	(0.08)	(0.49)	(0.13)	(0.487)	(0.13)
Growth $(-2)$	0.13	0.03	0.13	0.03	0.13	0.03	0.13	0.03	0.13	0.03
	(0.075)	(0.013)	(0.078)	(0.013)	(0.079)	(0.013)	(0.071)	(0.016)	(0.072)	(0.016)
Int. rate $(-2)$	-0.82	0.03	-0.82	0.03	-0.81	0.03	-0.81	0.03	-0.81	0.03
	(0.658)	(0.11)	(0.69)	(0.116)	(0.694)	(0.116)	(0.828)	(0.203)	(0.834)	(0.203)
Growth $(-3)$	0.16	0	0.16	0	0.16	0	0.16	-0.01	0.16	-0.01
	(0.075)	(0.013)	(0.078)	(0.013)	(0.079)	(0.013)	(0.088)	(0.014)	(0.088)	(0.014)
Int. rate $(-3)$	-0.29	-0.02	-0.29	-0.02	-0.29	-0.02	-0.28	-0.03	-0.28	-0.03
	(0.655)	(0.11)	(0.687)	(0.115)	(0.691)	(0.115)	(0.756)	(0.22)	(0.763)	(0.221)
Growth $(-4)$	0.34	-0.01	0.34	-0.01	0.34	-0.01	0.35	-0.02	0.35	-0.02
	(0.073)	(0.012)	(0.077)	(0.013)	(0.077)	(0.013)	(0.077)	(0.018)	(0.077)	(0.018)
Int. rate $(-4)$	0.79	-0.13	0.79	-0.13	0.78	-0.13	0.8	-0.14	0.8	-0.14
	(0.429)	(0.072)	(0.45)	(0.075)	(0.453)	(0.075)	(0.534)	(0.138)	(0.541)	(0.138)
Innov. covar.										
Growth	0.93		0.93		0.94		0.93		0.93	
			(0.104)		(0.105)		(0.153)		(0.15)	
Int. rate	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03
			(0.013)	(0.003)	(0.013)	(0.003)	(0.013)	(0.006)	(0.013)	(0.006)
Log likelihood	16	5.5	16	5.5	16	68.5	16	67.4	17	0.6

Table 8: 4-lag test VAR for DEU. In restricted MLEs, mean difference is 0.27

	О	LS	M	LE	UN	/ILE	Rest	MLE	Rest	UMLE
	Growth	Int. rate								
Coefficients										
Constant	0.57	-0.05	0.57	-0.05	0.58	-0.05	0.57	-0.05	0.57	-0.05
	(0.155)	(0.028)	(0.158)	(0.029)	(0.15)	(0.027)	(0.181)	(0.028)	(0.163)	(0.024)
LR Mean	1.76	1.39	1.76	1.39	1.73	1.28	2.02	2.09	2.02	2.09
	(0.259)	(0.526)	(0.263)	(0.535)	(0.23)	(0.448)	(0.441)	(1.212)	(0.272)	(0.711)
Growth $(-1)$	0.63	0.06	0.63	0.06	0.63	0.06	0.63	0.06	0.63	0.06
	(0.055)	(0.01)	(0.056)	(0.01)	(0.055)	(0.01)	(0.063)	(0.01)	(0.063)	(0.01)
Int. rate (-1)	0.06	0.95	0.06	0.95	0.05	0.95	0.08	0.96	0.08	0.96
, ,	(0.08)	(0.015)	(0.082)	(0.015)	(0.079)	(0.014)	(0.077)	(0.023)	(0.068)	(0.019)
Innov. covar.										
Growth	1.04		1.03		1.03		1.04		1.04	
			(0.102)		(0.101)		(0.174)		(0.174)	
Int. rate	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03
			(0.013)	(0.003)	(0.013)	(0.003)	(0.014)	(0.006)	(0.014)	(0.006)
Log likelihood	24	8.7	24	18.7	25	51.2	24	9.5	25	2.6

Table 9: 1-lag test VAR for CAN. In restricted MLEs, mean difference is 0.0728

	О	LS	M	LE	UN	<i>I</i> LE	Rest	MLE	Rest	UMLE
	Growth	Int. rate	Growth	Int. rate	$\overline{\text{Growth}}$	Int. rate	Growth	Int. rate	$\overline{\text{Growth}}$	Int. rate
Coefficients										
Constant	0.4	-0.05	0.4	-0.05	0.42	-0.05	0.39	-0.05	0.39	-0.05
	(0.176)	(0.031)	(0.183)	(0.033)	(0.17)	(0.031)	(0.187)	(0.032)	(0.156)	(0.029)
LR Mean	1.72	1.35	1.72	1.35	1.7	1.28	2.05	2.1	2.05	2.1
	(0.33)	(0.555)	(0.343)	(0.577)	(0.289)	(0.471)	(0.545)	(1.217)	(0.312)	(0.678)
Growth $(-1)$	0.61	0.06	0.61	0.06	0.6	0.06	0.61	0.06	0.61	0.06
	(0.069)	(0.012)	(0.072)	(0.013)	(0.071)	(0.013)	(0.091)	(0.013)	(0.09)	(0.013)
Int. rate $(-1)$	0.2	1.14	0.2	1.14	0.19	1.14	0.22	1.15	0.22	1.15
	(0.387)	(0.069)	(0.403)	(0.072)	(0.401)	(0.072)	(0.327)	(0.119)	(0.329)	(0.118)
Growth $(-2)$	-0.02	0.01	-0.02	0.01	-0.03	0.01	-0.02	0.01	-0.02	0.01
	(0.083)	(0.015)	(0.086)	(0.015)	(0.086)	(0.015)	(0.098)	(0.014)	(0.098)	(0.014)
Int. rate (-2)	-0.74	-0.36	-0.74	-0.36	-0.74	-0.36	-0.74	-0.36	-0.74	-0.36
	(0.581)	(0.103)	(0.604)	(0.108)	(0.603)	(0.107)	(0.458)	(0.143)	(0.458)	(0.143)
Growth $(-3)$	0.09	-0.01	0.09	-0.01	0.08	-0.01	0.08	-0.01	0.08	-0.01
	(0.082)	(0.015)	(0.085)	(0.015)	(0.085)	(0.015)	(0.086)	(0.013)	(0.086)	(0.013)
Int. rate (-3)	0.11	0.21	0.11	0.21	0.11	0.21	0.11	0.21	0.11	0.21
	(0.582)	(0.104)	(0.605)	(0.108)	(0.603)	(0.108)	(0.498)	(0.136)	(0.498)	(0.136)
Growth $(-4)$	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01
	(0.073)	(0.013)	(0.075)	(0.013)	(0.075)	(0.013)	(0.08)	(0.011)	(0.081)	(0.011)
Int. rate (-4)	0.45	-0.04	0.45	-0.04	0.45	-0.04	0.47	-0.04	0.47	-0.04
	(0.379)	(0.067)	(0.394)	(0.07)	(0.392)	(0.07)	(0.354)	(0.096)	(0.352)	(0.096)
Innov. covar.										
Growth	1.02		1.01		1.01		1.01		1.01	
			(0.102)		(0.102)		(0.186)		(0.186)	
Int. rate	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03
			(0.013)	(0.003)	(0.013)	(0.003)	(0.014)	(0.006)	(0.014)	(0.006)
Log likelihood	23	37.2	23	37.2	23	89.7	2	38	24	1.1

Table 10: 4-lag test VAR for CAN. In restricted MLEs, mean difference is 0.047

	U	SA	Fra	ance	United	Kingdom	Ger	many	Car	nada
	Growth	Int. rate								
Coefficients										
Constant	0.72	-0.06	0.57	0.02	0.51	0.02	0.57	0	0.58	-0.05
	(0.116)	(0.027)	(0.164)	(0.029)	(0.189)	(0.027)	(0.162)	(0.025)	(0.15)	(0.027)
LR Mean	1.54	1.15	1.65	1.28	1.76	1.46	1.19	1.11	1.73	1.28
	(0.173)	(0.37)	(0.356)	(0.458)	(0.428)	(0.518)	(0.222)	(0.373)	(0.23)	(0.448)
Growth (-1)	0.43	0.09	0.32	0.03	0.28	0.02	0.23	0.05	0.63	0.06
	(0.064)	(0.015)	(0.066)	(0.013)	(0.067)	(0.011)	(0.078)	(0.012)	(0.055)	(0.01)
Int. rate (-1)	0.15	0.93	0.43	0.94	0.51	0.96	0.31	0.94	0.05	0.95
	(0.069)	(0.016)	(0.103)	(0.019)	(0.109)	(0.016)	(0.124)	(0.019)	(0.079)	(0.014)
Innov. covar.										
Growth	0.7		1.55		1.78		1.18		1.03	
	(0.067)		(0.151)		(0.171)		(0.128)		(0.101)	
Int. rate	0.05	0.04	0.05	0.06	0.06	0.05	0.04	0.03	0.02	0.03
	(0.012)	(0.004)	(0.021)	(0.005)	(0.02)	(0.004)	(0.015)	(0.003)	(0.013)	(0.003)
Log likelihood	22	23.5	35	54.5	3	52	20	18.9	25	1.2

Table 11: 1-lag VAR for sample of countries. Quarterly data 1966Q1-2016Q4 (from 1970Q1 for Germany). Robust likelihood-based standard errors in parentheses.

	U	SA	Fra	ance	United	Kingdom	Ger	many		
	Growth	Int. rate								
Coefficients										
Constant	0.37	-0.07	0.33	0	0.32	0.01	0.36	0.02	0.42	-0.05
	(0.139)	(0.033)	(0.154)	(0.033)	(0.178)	(0.031)	(0.164)	(0.028)	(0.17)	(0.031)
LR Mean	1.54	1.14	1.67	1.3	1.8	1.51	1.12	1.09	1.7	1.28
	(0.213)	(0.36)	(0.39)	(0.416)	(0.458)	(0.454)	(0.226)	(0.246)	(0.289)	(0.471)
Growth (-1)	0.33	0.07	0.09	0.02	0.12	0	0.09	0.05	0.6	0.06
	(0.07)	(0.017)	(0.07)	(0.015)	(0.07)	(0.012)	(0.077)	(0.013)	(0.071)	(0.013)
Int. rate (-1)	0.31	1.14	0.72	0.97	0.89	1.11	0.27	1.03	0.19	1.14
	(0.291)	(0.07)	(0.33)	(0.071)	(0.412)	(0.07)	(0.483)	(0.08)	(0.401)	(0.072)
Growth $(-2)$	0.23	0.04	0.36	0.03	0.25	0.03	0.13	0.03	-0.03	0.01
	(0.072)	(0.017)	(0.07)	(0.015)	(0.067)	(0.011)	(0.079)	(0.013)	(0.086)	(0.015)
Int. rate (-2)	-1.6	-0.49	-0.78	-0.01	-1.44	-0.16	-0.81	0.03	-0.74	-0.36
	(0.428)	(0.102)	(0.46)	(0.099)	(0.614)	(0.105)	(0.694)	(0.116)	(0.603)	(0.107)
Growth $(-3)$	0.05	0	0.17	0.01	0.29	0.03	0.16	0	0.08	-0.01
	(0.073)	(0.018)	(0.071)	(0.015)	(0.068)	(0.012)	(0.079)	(0.013)	(0.085)	(0.015)
Int. rate (-3)	1.46	0.49	0.15	-0.09	0.94	-0.09	-0.29	-0.02	0.11	0.21
	(0.439)	(0.105)	(0.463)	(0.099)	(0.619)	(0.106)	(0.691)	(0.115)	(0.603)	(0.108)
Growth $(-4)$	0.14	-0.01	0.13	-0.01	0.03	0	0.34	-0.01	0.08	0.01
	(0.069)	(0.017)	(0.071)	(0.015)	(0.071)	(0.012)	(0.077)	(0.013)	(0.075)	(0.013)
Int. rate (-4)	-0.17	-0.22	-0.02	0.06	-0.24	0.07	0.78	-0.13	0.45	-0.04
	(0.29)	(0.069)	(0.324)	(0.07)	(0.404)	(0.069)	(0.453)	(0.075)	(0.392)	(0.07)
Innov. covar.										
Growth	0.58		1.2		1.45		0.94		1.01	
	(0.057)		(0.12)		(0.143)		(0.105)		(0.102)	
Int. rate	0.03	0.03	0.03	0.05	0.03	0.04	0.04	0.03	0.02	0.03
	(0.01)	(0.003)	(0.018)	(0.006)	(0.017)	(0.004)	(0.013)	(0.003)	(0.013)	(0.003)
Log likelihood	1	89	32	20.8	31	8.1	16	88.5	23	9.7

Table 12: 4-lag VAR for sample of countries. Quarterly data 1966Q1-2016Q4 (from 1970Q1 for Germany). Robust likelihood-based standard errors in parentheses.

	USA		France		United Kingdom		Germany			
	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate	Growth	Int. rate
Coefficients										
Constant	0.37	-0.08	0.31	0.01	0.01	-0.01	0.32	0.04	0.39	-0.05
	(0.135)	(0.032)	(0.15)	(0.023)	(0.063)	(0.016)	(0.148)	(0.031)	(0.156)	(0.029)
LR Mean	1.95	2	1.87	1.95	-3.85	-3.77	0.9	1.17	2.05	2.1
	(0.358)	(0.825)	(0.427)	(0.773)	(1.204)	(1.181)	(0.248)	(0.262)	(0.312)	(0.678)
Growth (-1)	0.33	0.08	0.1	0.02	0.13	0	0.09	0.05	0.61	0.06
	(0.078)	(0.024)	(0.236)	(0.02)	(0.094)	(0.017)	(0.092)	(0.019)	(0.09)	(0.013)
Int. rate (-1)	0.33	1.14	0.72	0.99	0.94	1.12	0.23	1.06	0.22	1.15
	(0.339)	(0.127)	(0.344)	(0.12)	(0.419)	(0.112)	(0.487)	(0.13)	(0.329)	(0.118)
Growth (-2)	0.24	0.04	0.36	0.03	0.26	0.03	0.13	0.03	-0.02	0.01
	(0.083)	(0.027)	(0.126)	(0.016)	(0.082)	(0.013)	(0.072)	(0.016)	(0.098)	(0.014)
Int. rate (-2)	-1.6	-0.49	-0.78	-0.01	-1.46	-0.16	-0.81	0.03	-0.74	-0.36
	(0.407)	(0.189)	(0.481)	(0.165)	(0.543)	(0.183)	(0.834)	(0.203)	(0.458)	(0.143)
Growth (-3)	0.05	0	0.17	0.01	0.3	0.03	0.16	-0.01	0.08	-0.01
	(0.08)	(0.019)	(0.079)	(0.013)	(0.087)	(0.014)	(0.088)	(0.014)	(0.086)	(0.013)
Int. rate (-3)	1.47	0.49	0.15	-0.09	0.94	-0.09	-0.28	-0.03	0.11	0.21
	(0.4)	(0.24)	(0.447)	(0.139)	(0.699)	(0.137)	(0.763)	(0.221)	(0.498)	(0.136)
Growth (-4)	0.14	-0.01	0.13	-0.02	0.03	0	0.35	-0.02	0.08	0.01
	(0.083)	(0.022)	(0.092)	(0.01)	(0.095)	(0.015)	(0.077)	(0.018)	(0.081)	(0.011)
Int. rate (-4)	-0.15	-0.21	-0.02	0.06	-0.13	0.07	0.8	-0.14	0.47	-0.04
	(0.266)	(0.12)	(0.264)	(0.089)	(0.525)	(0.085)	(0.541)	(0.138)	(0.352)	(0.096)
Innov. covar.										
Growth	0.58		1.2		1.47		0.93		1.01	
	(0.099)		(0.441)		(0.205)		(0.15)		(0.186)	
Int. rate	0.03	0.03	0.03	0.06	0.03	0.04	0.04	0.03	0.02	0.03
	(0.02)	(0.01)	(0.023)	(0.018)	(0.018)	(0.008)	(0.013)	(0.006)	(0.014)	(0.006)
Log likelihood	191		322.8		321.8		170.6		241.1	

Table 13: 4-lag restricted VAR for sample of countries. Lon-run means are restricted to be at the 5% critical value under the unconditional LR test. Quarterly data 1966Q1-2016Q4 (from 1970Q1 for Germany). Robust likelihood-based standard errors in parentheses.

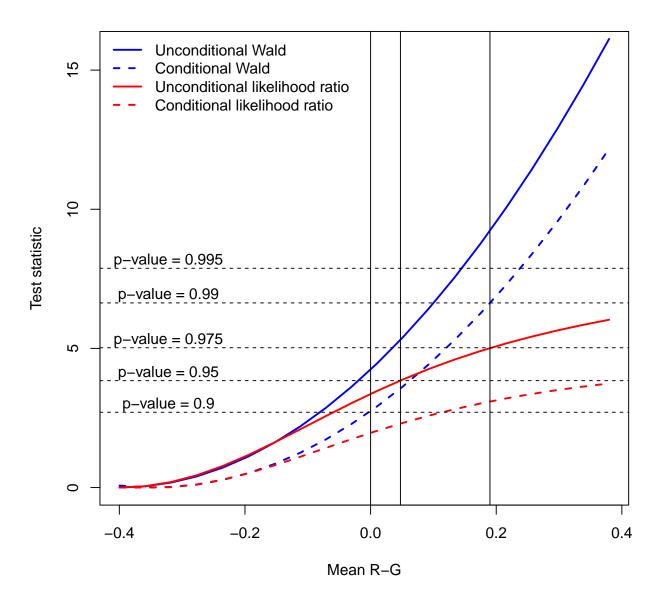


Figure 1: Four-lag hypothesis tests for USA

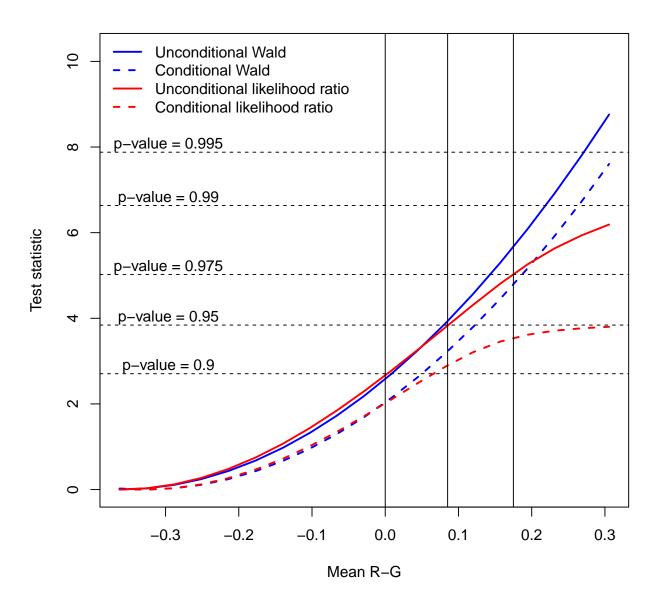


Figure 2: Four-lag hypothesis tests for France

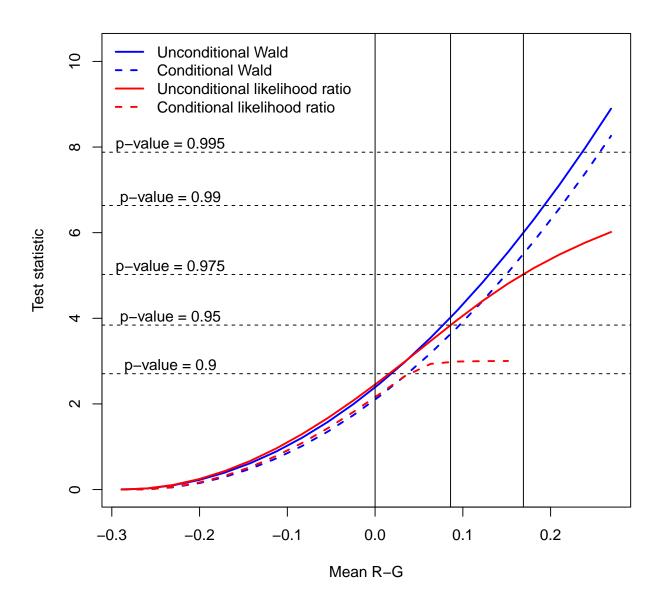


Figure 3: Four-lag hypothesis tests for UK

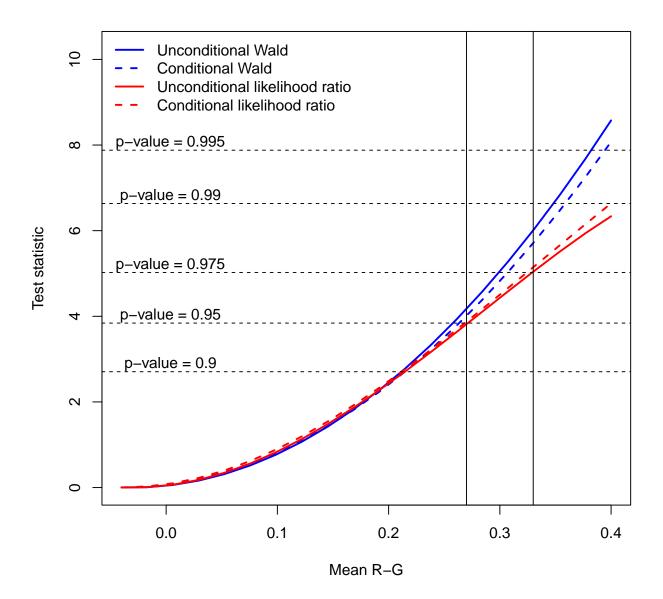


Figure 4: Four-lag hypothesis tests for Germany

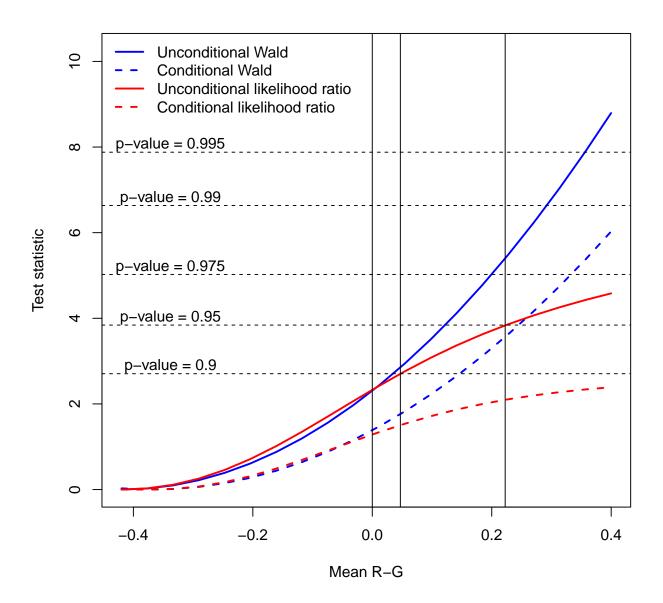


Figure 5: Four-lag hypothesis tests for Canada