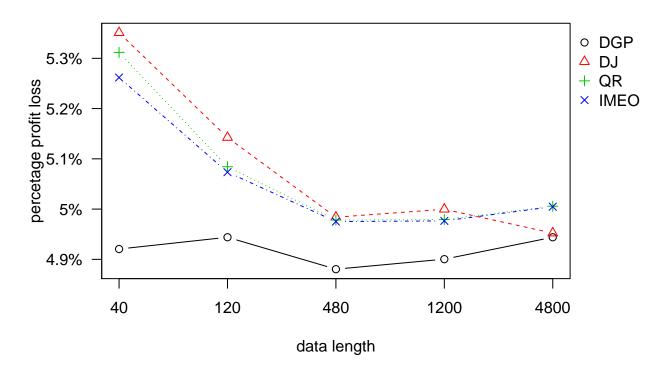
## linear norm plot

Joshua

15/05/2020



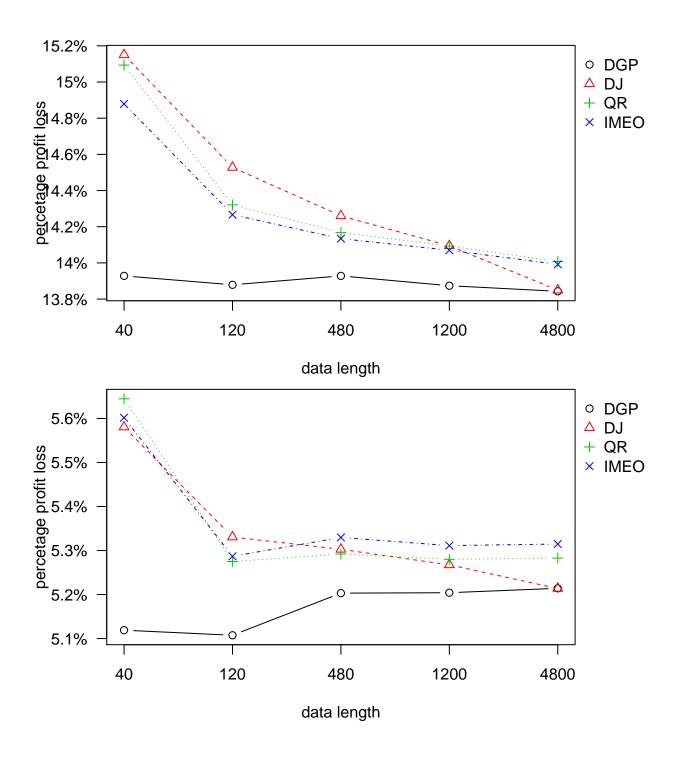
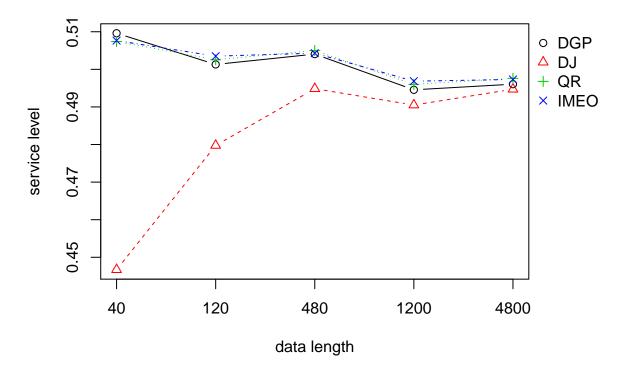
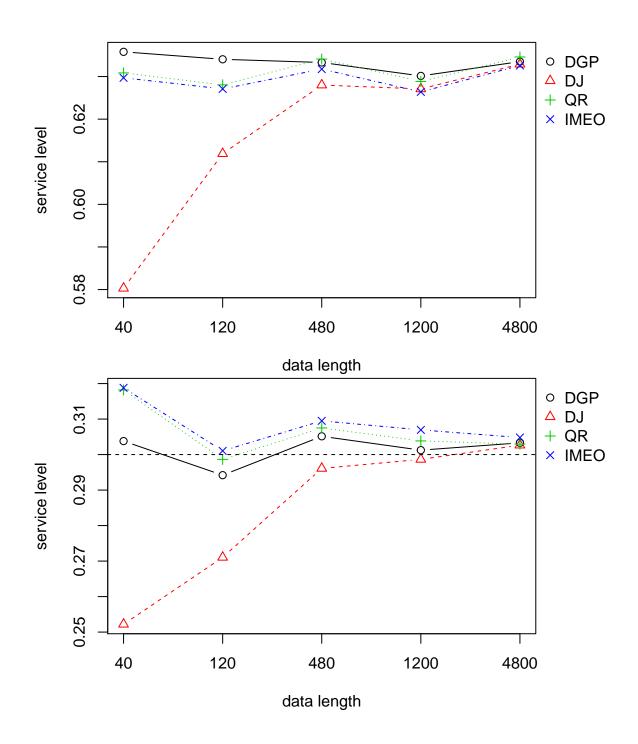


Table 1: Inventory Error

	Ta	rget serv	ice level=	0.5	Ta	rget servi	ce level=0	0.63	Target service level=0.3				
Data size	DGP	disjoint	quantile	proposed	DGP	disjoint	quantile	proposed	DGP	disjoint	quantile	proposed	
40	-1.94	29.62	-1.58	-1.73	-70.03	-46.72	-69.68	-66.76	101.77	145.41	102.66	100.94	
	(200)	(221.78)	(217.24)	(214.91)	(199.58)	(221.15)	(217.92)	(215.23)	(198.78)	(220.78)	(219.04)	(216.5)	
120	-0.34	11.59	-0.67	-0.62	-69	-61.58	-69.06	-67.86	107.02	126.82	107.01	105.56	
	(200.52)	(211.2)	(206.81)	(206.19)	(199.38)	(211.22)	(206.08)	(205.6)	(199.18)	(210.04)	(205.79)	(205.69)	
480	-2.1	1.22	-2.42	-2.5	-68.79	-68.04	-69.25	-68.03	104.64	111.59	105.75	104.14	
	(198.66)	(203.8)	(202.26)	(202.1)	(200.69)	(206.48)	(203.97)	(203.93)	(202.16)	(207.19)	(205.67)	(206.1)	
1200	3.65	5.61	3.22	3.25	-67	-67	-67.54	-66.4	103.87	107.71	104.55	103.06	
	(201.06)	(205.72)	(203.95)	(203.89)	(200.2)	(204.34)	(203.07)	(203.15)	(201.06)	(204.27)	(203.78)	(204.21)	
4800	0.41	0.81	0.84	0.86	-68.34	-68.09	-69.22	-68.08	102.76	103.43	104.18	102.76	
	(201.92)	(202.29)	(204.22)	(204.22)	(199.51)	(199.72)	(201.86)	(202.05)	(200.71)	(200.97)	(203.34)	(203.85)	





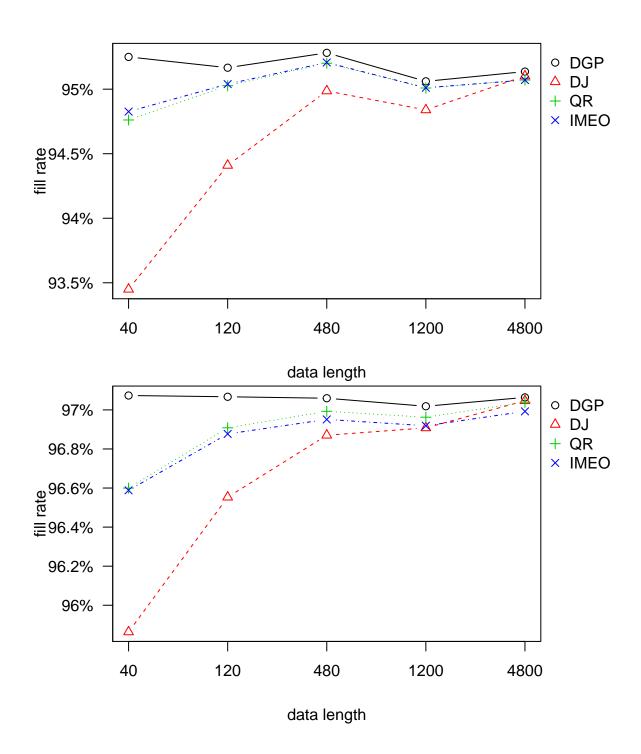
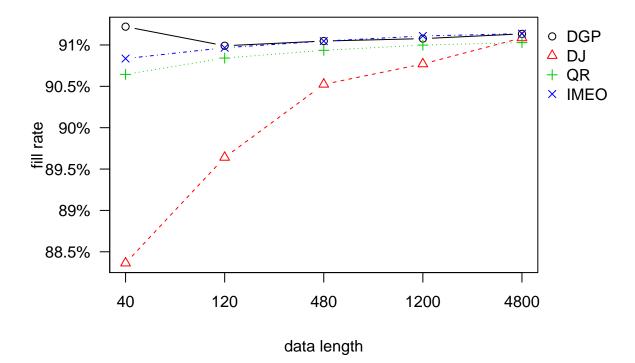


Table 2: p-value of Wilcoxon Test between data size 1200 and 4800

Target service level	DGP	disjoint	quantile	proposed
0.5	0.7641703	0.4008630	0.7489668	0.9282873
0.63	0.4873273	0.2296351	0.2332227	0.1992153
0.3	0.6553228	0.3830332	0.8447936	0.6407884



	Per	centag	loss		Servi	e leve	el	Fill rate				
Data size	DGP	DJ	QR	IMEO	DGP	DJ	QR	IMEO	DGP	DJ	QR	IMEO
40	5.1%	5.6%	5.6%	5.6%	0.30	0.25	0.32	0.32	91.2%	88.4%	90.6%	90.8%
120	5.1%	5.3%	5.3%	5.3%	0.29	0.27	0.30	0.30	91.0%	89.6%	90.8%	91.0%
480	5.2%	5.3%	5.3%	5.3%	0.31	0.30	0.31	0.31	91.0%	90.5%	90.9%	91.0%
1200	5.2%	5.3%	5.3%	5.3%	0.30	0.30	0.30	0.31	91.1%	90.8%	91.0%	91.1%
4800	5.2%	5.2%	5.3%	5.3%	0.30	0.30	0.30	0.30	91.1%	91.1%	91.0%	91.1%

	Per		Servi	ce leve	el	Fill rate						
Target service level	DGP	DJ	QR	IMEO	DGP	DJ	QR	IMEO	DGP	DJ	QR	IMEO
0.5	4.9%	5.4%	5.3%	5.3%	0.51	0.45	0.51	0.51	95.3%	93.4%	94.8%	94.8%
0.63	13.9%	15.2%	15.1%	14.9%	0.64	0.58	0.63	0.63	97.1%	95.9%	96.6%	96.6%
0.3	5.1%	5.6%	5.6%	5.6%	0.30	0.25	0.32	0.32	91.2%	88.4%	90.6%	90.8%

	Per		Servi	ce leve	el	Fill rate						
Target service level	DGP	DJ	QR	IMEO	DGP	DJ	QR	IMEO	DGP	DJ	QR	IMEO
0.5	4.9%	5.0%	5.0%	5.0%	0.50	0.49	0.50	0.50	95.1%	95.1%	95.1%	95.1%
0.63	13.8%	13.8%	14.0%	14.0%	0.63	0.63	0.63	0.63	97.1%	97.0%	97.0%	97.0%
0.3	5.2%	5.2%	5.3%	5.3%	0.30	0.30	0.30	0.30	91.1%	91.1%	91.0%	91.1%