

data: E with 4 continuous variables

GxE: $g[1]*e[1], g[1]*e[2], g[1]*e[3], g[2]*e[4], g[3]*e[1], g[3]*e[2],$
 $g[4]*e[4], g[5]*e[1], g[5]*e[2], g[6]*e[4], g[7]*e[1], g[7]*e[2]$

n=200, p=500, seq(0,1,by=0.01), rep=30

TCGA

coefficients: (0.1, 0.5)

		BL			BLSS		
error		main	interaction	total	main	interaction	total
n(0,1)	Top100	3.3	1.63	4.93	3.07	3.53	6.6
	SD	0.88	1.19	1.34	1.23	1.89	2.55
t(2)	Top100	2.1	1	3.1	3.1	3.17	6.27
	SD	1.21	1.05	1.60	1.94	2.59	4.05
lognorm(0,2)	Top100	0.27	0.33	0.6	0.6	0.7	1.3
	SD	0.58	0.61	0.93	0.97	0.88	1.58
90% n(0,1) + 10% Cauchy(0,1)	Top100	1.97	1.43	3.4	3.53	3.43	6.97
	SD	1.63	1.30	2.59	1.63	2.28	3.44
80% n(0,1) + 20% Cauchy(0,1)	Top100	2.03	1.13	3.17	2.9	2.6	5.5
	SD	1.47	1.28	2.34	1.81	2.09	3.54

top12, top22, top3, top4, top5

		LADBL			LADBLSS		
error		main	interaction	total	main	interaction	total
n(0,1)	Top100	3.5	2.27	5.77	4.7	5.9	10.6
	SD	1.28	1.17	1.94	1.37	1.84	2.31
t(2)	Top100	2.93	1.67	4.6	4.5	6.13	10.63
	SD	1.11	1.18	1.79	1.33	1.91	2.75
lognorm(0,2)	Top100	2.97	1	3.97	3.7	4.9	8.6
	SD	1.25	0.74	1.33	1.56	2.25	3.16
90% n(0,1) + 10% Cauchy(0,1)	Top100	3.5	2.6	6.1	4.7	6.03	10.73
	SD	1.17	1.30	1.81	1.32	2.03	2.64
80% n(0,1) + 20% Cauchy(0,1)	Top100	3.43	2.23	5.67	5.53	7	12.53
	SD	1.41	1.07	1.47	1.50	2.07	3.09