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

MAF

coefficients: (0.1, 0.5)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | BL | | | BLSS | | |
| error |  | main | interaction | total | main | interaction | total |
| n(0,1) | Top100 | 7.7 | 6.8 | 14.5 | 7.63 | 10.93 | 18.57 |
| SD | 0.47 | 1.63 | 1.79 | 0.72 | 0.98 | 1.22 |
| t(2) | Top100 | 6.57 | 4.47 | 11.03 | 6.6 | 8.4 | 15 |
| SD | 1.87 | 1.69 | 2.88 | 1.57 | 2.51 | 3.68 |
| lognorm(0,2) | Top100 | 0.5 | 0.83 | 1.33 | 0.7 | 0.4 | 1.1 |
| SD | 0.73 | 1.02 | 1.47 | 0.99 | 0.86 | 1.54 |
| 90% n(0,1) + 10% Cauchy(0,1) | Top100 | 5.73 | 4.3 | 10.03 | 5.73 | 7.67 | 13.4 |
| SD | 2.82 | 2.64 | 5.11 | 3.02 | 4.19 | 7.05 |
| 80% n(0,1) + 20% Cauchy(0,1) | Top100 | 5.6 | 2.93 | 8.53 | 5.27 | 6.9 | 12.17 |
| SD | 2.61 | 2.23 | 4.27 | 2.27 | 3.64 | 5.66 |

top21, top22, top23, top24, top25

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | LADBL | | | LADBLSS | | |
| error |  | main | interaction | total | main | interaction | total |
| n(0,1) | Top100 | 7.7 | 7.33 | 15.03 | 7.87 | 10.33 | 18.2 |
| SD | 0.75 | 1.95 | 2.14 | 0.35 | 1.35 | 1.45 |
| t(2) | Top100 | 7.57 | 5.77 | 13.33 | 7.43 | 9.3 | 16.73 |
| SD | 0.62 | 1.50 | 1.77 | 0.68 | 2.15 | 2.43 |
| lognorm(0,2) | Top100 | 6.13 | 3.8 | 9.93 | 6.63 | 10.1 | 16.73 |
| SD | 2.05 | 1.39 | 1.32 | 1.16 | 1.73 | 2.52 |
| 90% n(0,1) + 10% Cauchy(0,1) | Top100 | 7.8 | 6.87 | 14.67 | 7.83 | 10.5 | 18.33 |
| SD | 0.48 | 1.61 | 1.54 | 0.38 | 1.25 | 1.39 |
| 80% n(0,1) + 20% Cauchy(0,1) | Top100 | 7.87 | 6.87 | 14.73 | 7.7 | 10.7 | 18.4 |
| SD | 0.35 | 1.45 | 1.46 | 0.53 | 1.12 | 1.28 |