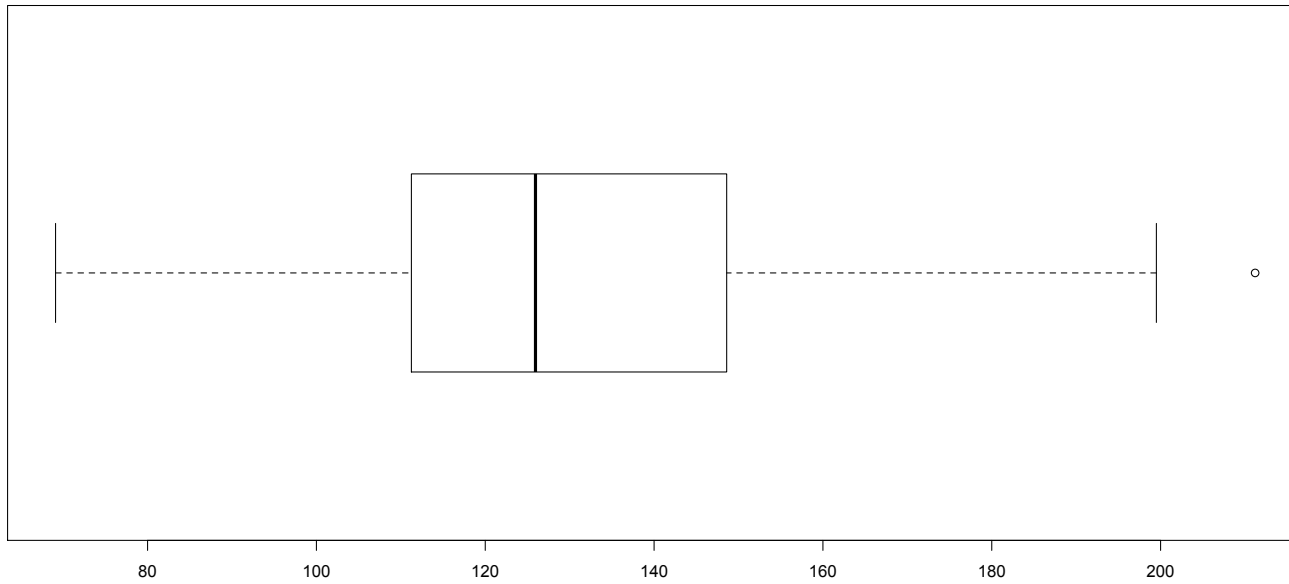


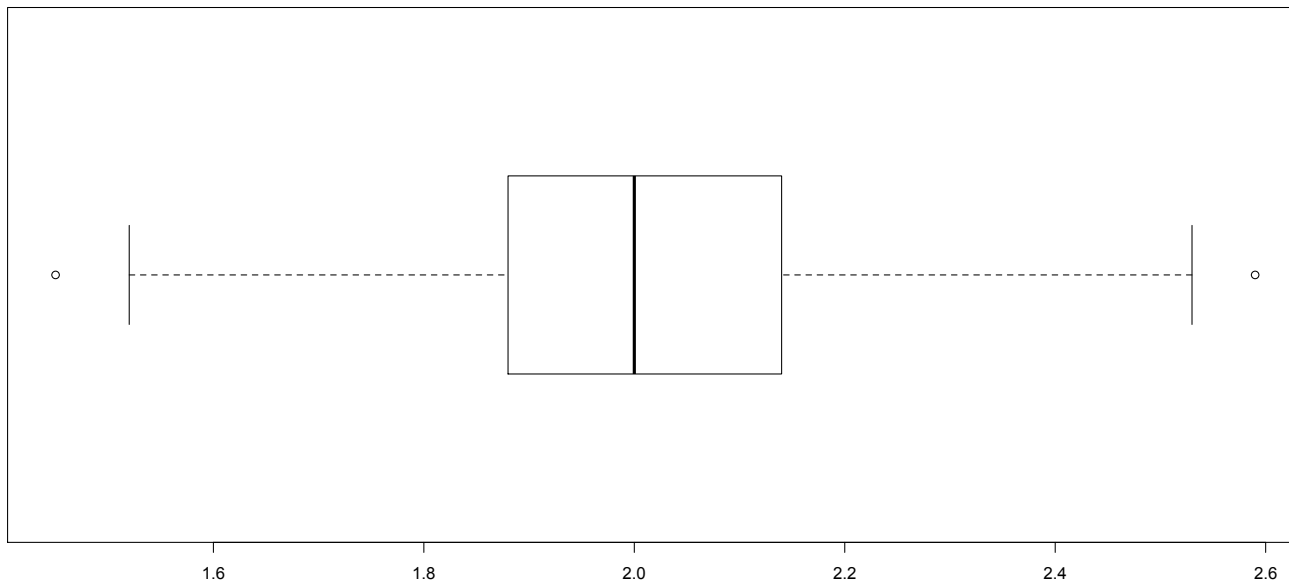
# Revisiting the house price data

**houseprice.txt**

**Price (1000 dollars)**



**Size (1000 square feet)**



# Summary statistics

Size mean = 2.000

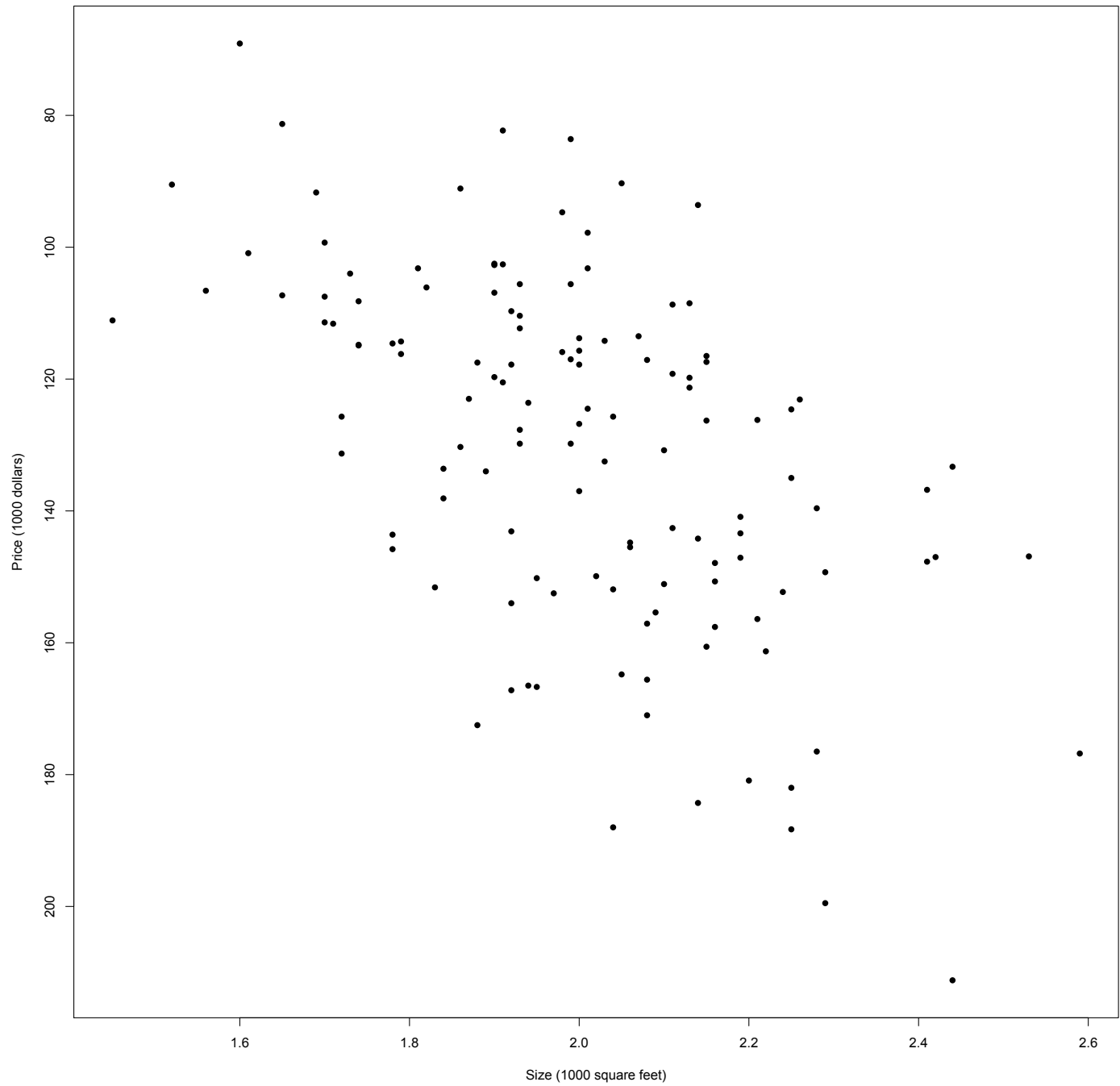
Size st dev = 0.212

Price mean = 130.427

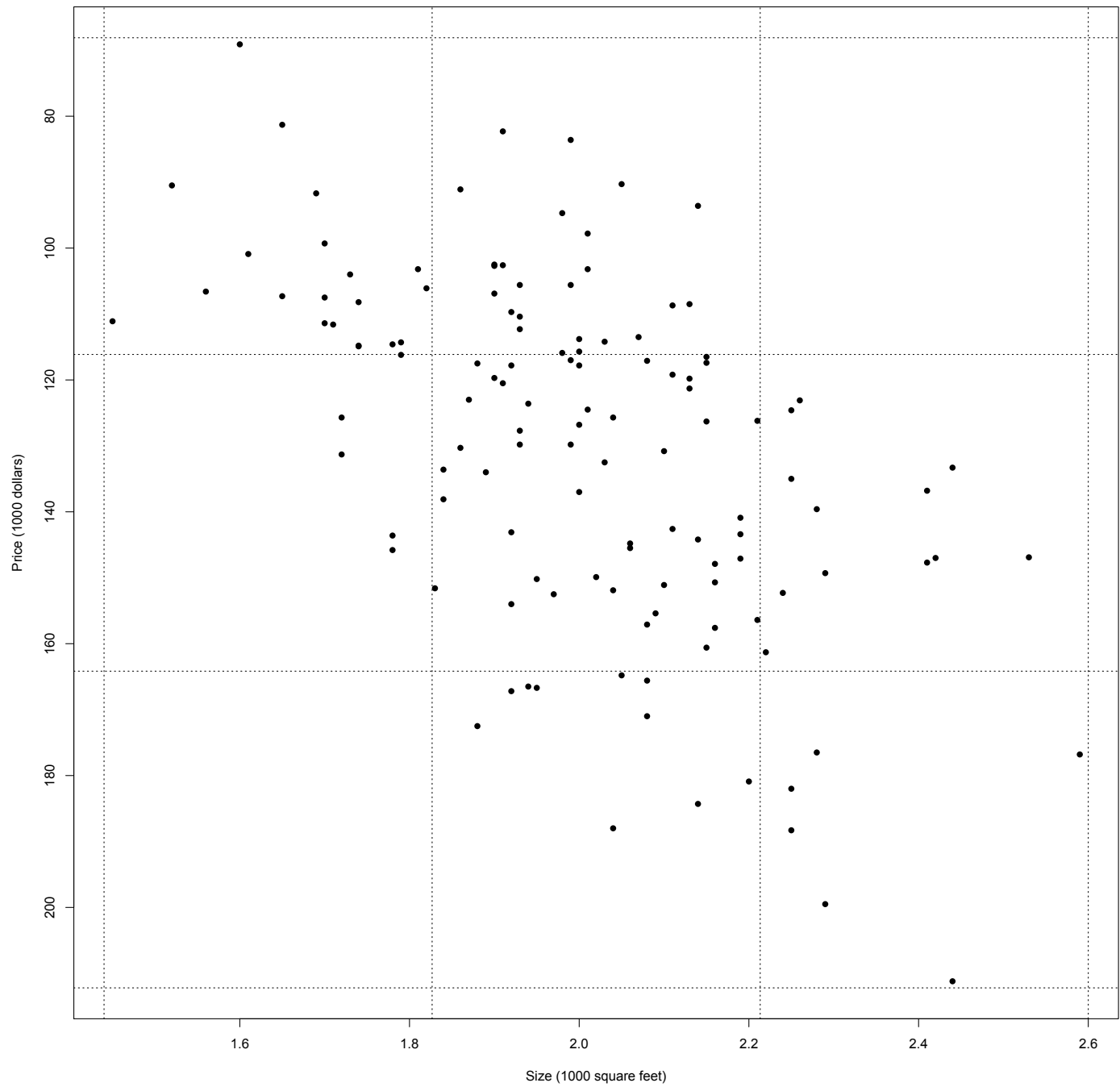
Price st dev = 26.869

Covariance = 3.144

Correlation = 0.553



3 cells

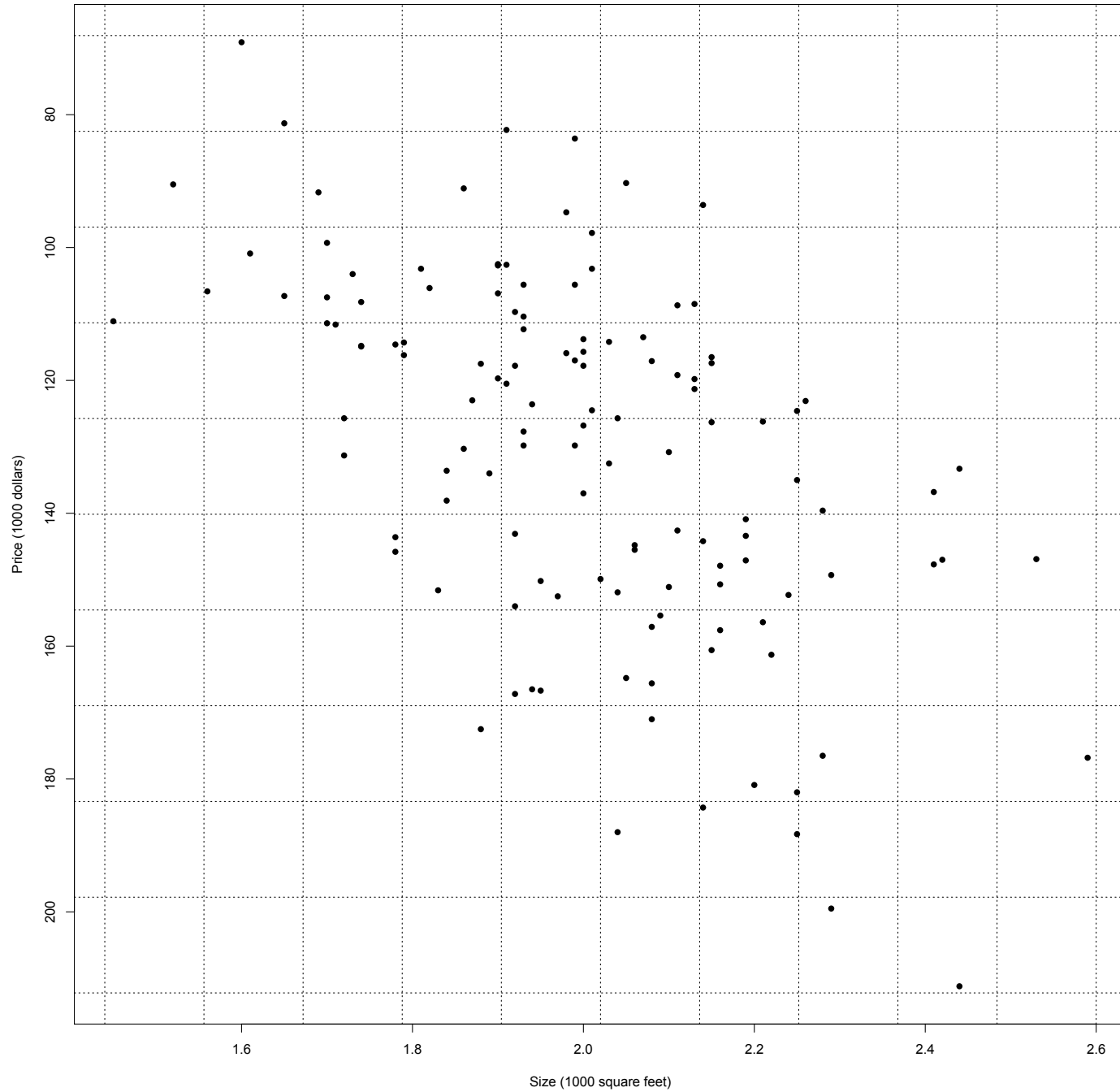


# Discretizing size and price: 3 cells

PRICE \ SIZE	1.63	2.02	2.41	Total
92.12	0.1562	0.1875	0.0000	0.3437
140.15	0.0391	0.3984	0.0938	0.5313
188.18	0.0000	0.0781	0.0469	0.1250
Total	0.1953	0.6640	0.1407	1.0000

Summary	Sample statistics	3-cell approximation
E(size)	2.000	1.999
SD(size)	0.212	0.223
E(price)	130.427	129.643
SD(price)	26.869	31.162
COV(size,price)	3.144	3.550
COR(size,price)	0.553	0.511

10 cells



# 10 cells

Price \ Size	1.498	1.614	1.73	1.846	1.962	2.078	2.194	2.31	2.426	2.542	Total
<b>75.305</b>	0	0.0156	0	0	0.0078	0	0	0	0	0	0.0234
<b>89.715</b>	0.0078	0	0.0078	0.0078	0.0156	0.0078	0.0078	0	0	0	0.0546
<b>104.125</b>	0.0078	0.0234	0.0312	0.0391	0.0547	0.0156	0	0	0	0	0.1718
<b>118.535</b>	0	0	0.0469	0.0391	0.0781	0.0547	0.0234	0.0078	0	0	0.25
<b>132.945</b>	0	0	0.0078	0.0312	0.0391	0.0156	0.0234	0.0078	0.0156	0	0.1405
<b>147.355</b>	0	0	0.0156	0.0078	0.0312	0.0469	0.0547	0.0078	0.0156	0.0078	0.1874
<b>161.765</b>	0	0	0	0	0.0234	0.0312	0.0312	0	0	0	0.0858
<b>176.175</b>	0	0	0	0.0078	0	0.0078	0.0156	0.0078	0	0.0078	0.0468
<b>190.585</b>	0	0	0	0	0	0.0078	0.0156	0	0	0	0.0234
<b>204.995</b>	0	0	0	0	0	0	0	0.0078	0.0078	0	0.0156
<b>TOTAL</b>	0.0156	0.039	0.1093	0.1328	0.2499	0.1874	0.1717	0.039	0.039	0.0156	1.00

Summary	Sample statistics	3-cell approximation	10-cell approximation
E(size)	2.000	1.999	2.003
SD(size)	0.212	0.223	0.210
E(price)	130.427	129.643	130.356
SD(price)	26.869	31.162	26.925
COV(size,price)	3.144	3.550	3.122
COR(size,price)	0.553	0.511	0.551