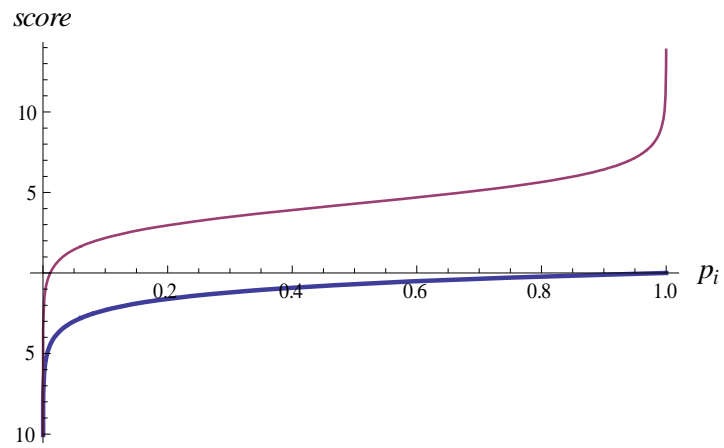


**Figure 1**

The Two Rival Probability Score Functions

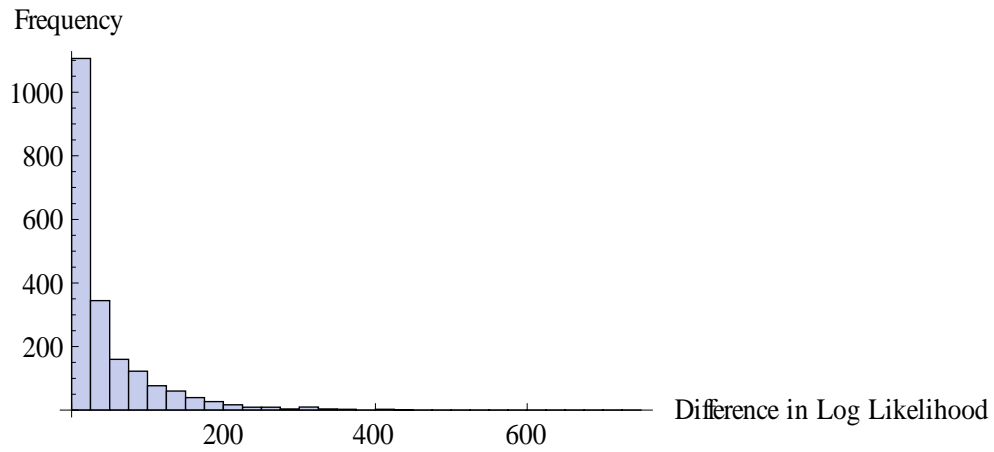
*Log score (as in MLE) = thin line*  
*Exponential score = thick line*



Note how the exponential function rewards extreme probabilities when they are correct much more than the log score

**Figure 2**

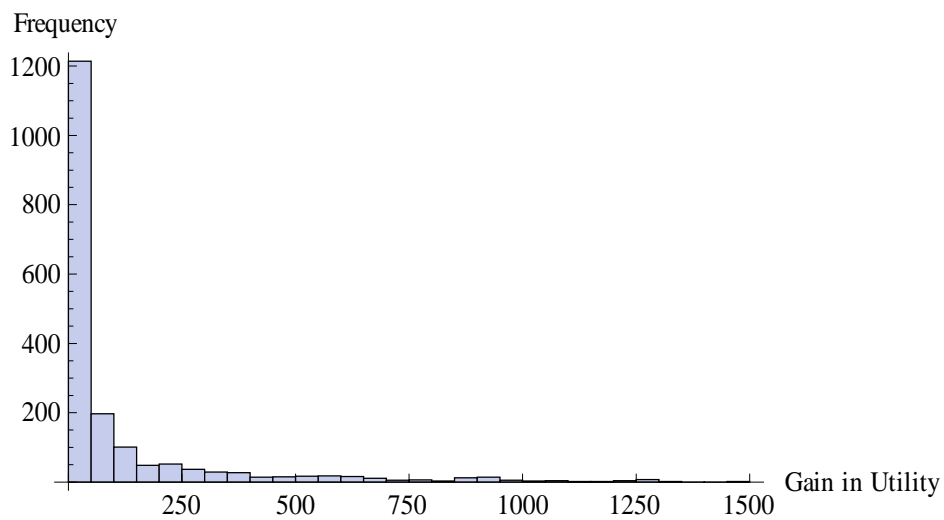
In-sample measure of  $L(Y | \beta^{mle}) - L(Y | \beta^{exp})$



*Mean  $pr(\text{bankruptcy}) = 0.03195 = \text{long run empirical frequency}$   
2000 repeats*

**Figure 3**

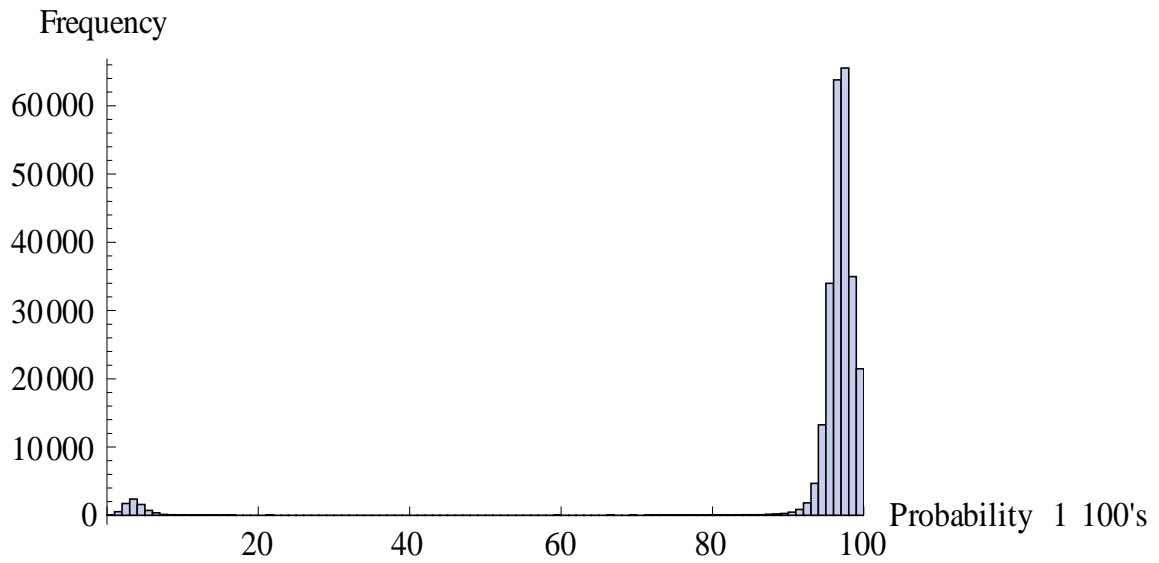
In-sample measure of  $S(Y | \beta^{mle}) - S(Y | \beta^{exp})$



*Mean  $pr(\text{bankruptcy}) = 0.1067$   
2000 repeats*

**Figure 4**

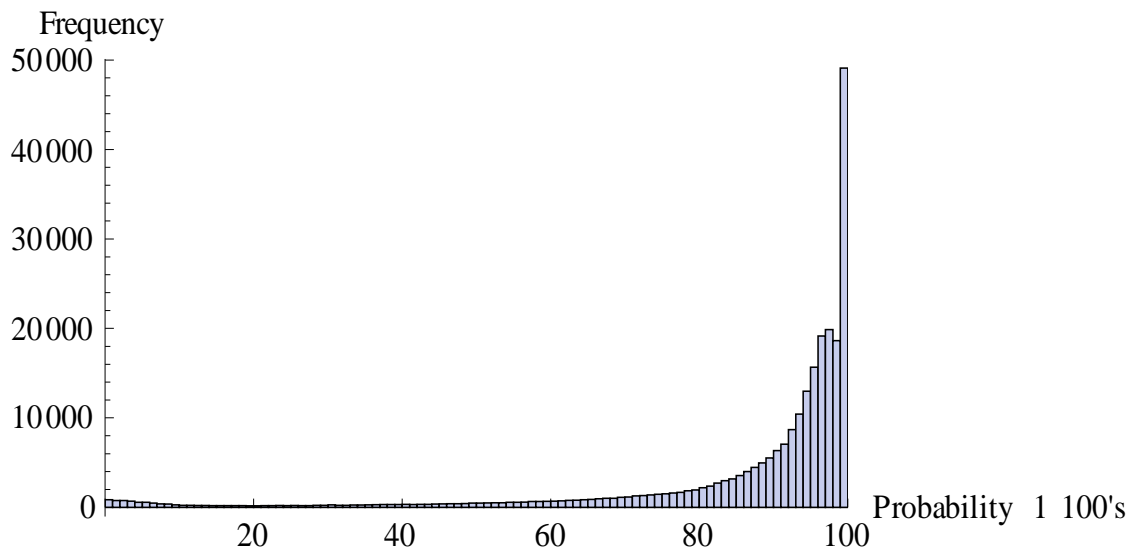
Distribution of  $p^{mle}$  (MLE probabilities)



*Mean pr(bankruptcy) = 0.0314*  
*500 repeats*

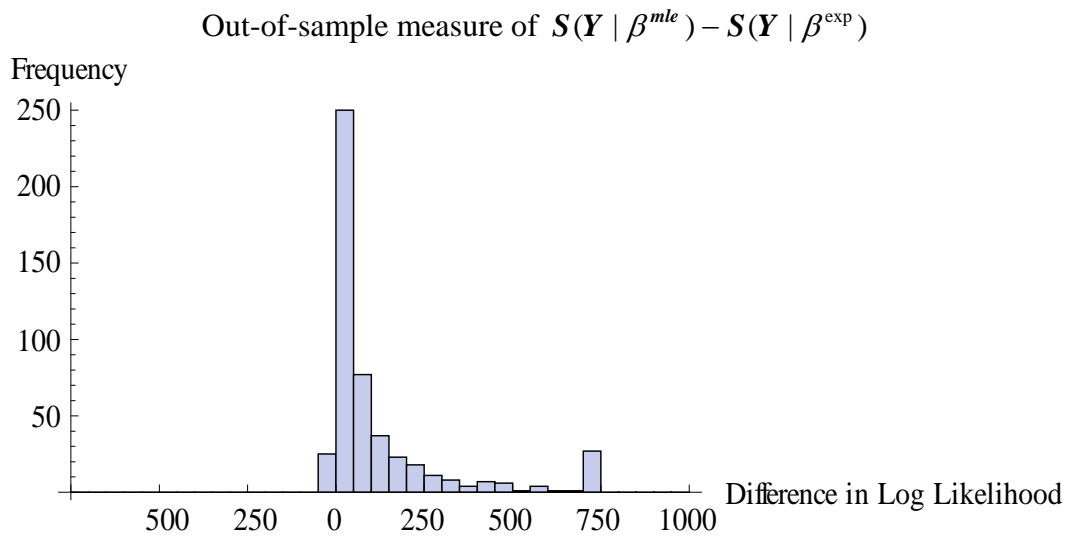
**Figure 5**

Distribution of  $p^{exp}$  (EXP probabilities)



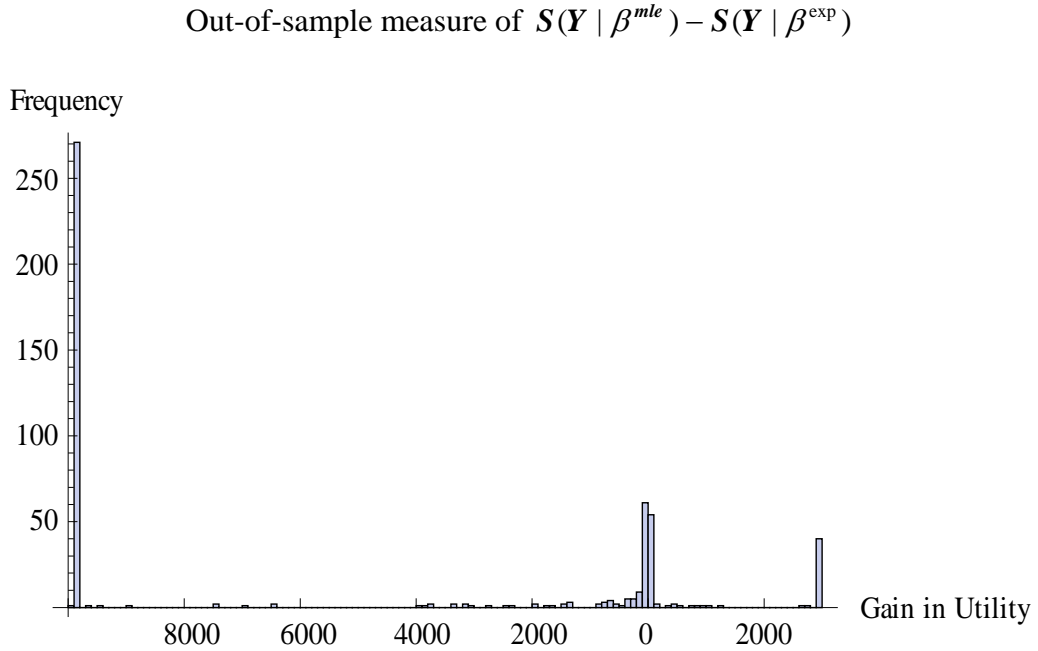
*Mean pr(bankruptcy) = 0.1061*  
*500 repeats*

**Figure 6**



*Mean  $pr(\text{bankruptcy}) = 0.034$   
500 repeats*

**Figure 7**



*Mean  $pr(\text{bankruptcy}) = 0.111$   
500 repeats*

Only 24% of bootstrap repeats generate higher EU (out-of-sample) under exponential fitting than under MLE