Experimental mean is 1.28988; mean square is 1.72987
Maximum value is 1.89857; predicted value is 1.91063
\begin{align*}
P\{\text{ABCD is well--centered}\} &= 0.12415 \sim 1/8 = 0.12500 \\
P\{\text{ABC is acute}\} &= 0.49888 \sim 1/2 = 0.50000 \\
P\{\text{ABCD is well--centered & ABC is acute}\} &= 0.10128 \sim 0.10192 \\

\text{ABCD is three--bounded iff the bounding circle (of the minimal cap)} \\
\text{contains three vertices in the form of an acute chordal triangle} \\

P\{\text{ABCD is three--bounded | minimal radius is obtuse}\} &= 1.00000 \sim 1 \\
P\{\text{ABCD is well--centered | minimal radius is obtuse}\} &= 1.00000 \sim 1 \\

\text{ABCD is two--bounded iff the bounding circle (of the minimal cap)} \\
\text{contains two diametrically opposite vertices} \\

P\{\text{ABCD is two--bounded | minimal radius is acute}\} &= 0.28658 \sim 2/7 = 0.28571 \\
P\{\text{ABCD is three--bounded | minimal radius is acute}\} &= 0.71342 \sim 5/7 = 0.71429 \\
P\{\text{ABCD is well--centered | minimal radius is acute}\} &= 0.00000 \sim 0 \\

\text{ABCD is completely well--centered iff it} \\
\text{is well--centered and each face is acute} \\

P\{\text{ABCD is completely well--centered}\} &= 0.06477
\end{align*}