8192, Average Height:30

30/log2 8192 =2.3076

Percentage within the range of [ – 2,+ 2]= 96.7%

Percentage within the range of [ – 3,+ 3]= 99.4%

16384, Average Height:33

33/log2 16394 =2.3571

Percentage within the range of [ – 2,+ 2]= 96.4%

Percentage within the range of [ – 3,+ 3]= 99.1%

32768, Average Height:36

36/log2 32768 = 2.4

Percentage within the range of [ – 2,+ 2]= 96.9%

Percentage within the range of [ – 3,+ 3]= 99.3%

65536, Average Height:38

38/log2 65536= 2.375

Percentage within the range of [ – 2,+ 2]= 94%

Percentage within the range of [ – 3,+ 3]= 98.9%

131072, Average Height:40

40/log2 131072= 2.3529

Percentage within the range of [ – 2,+ 2]= 92%

Percentage within the range of [ – 3,+ 3]= 99.1%

The average heights do bound around or below some c \* log2 n when n grows bigger and bigger.