

The histogram displays the frequency distribution of 1000 random numbers generated by the Box-Muller method. The x-axis is logarithmic, ranging from  $10^{-8}$  to  $10^{-6}$ . The y-axis represents the frequency, ranging from 0 to 10. The distribution is unimodal and centered around  $10^{-6}$ .

Bin Range (x-axis)	Frequency (y-axis)
$[10^{-8}, 1.1 \times 10^{-8})$	1
$[1.1 \times 10^{-8}, 1.2 \times 10^{-8})$	9
$[1.2 \times 10^{-8}, 1.3 \times 10^{-8})$	4
$[1.3 \times 10^{-8}, 1.4 \times 10^{-8})$	1
$[1.4 \times 10^{-8}, 1.5 \times 10^{-8})$	1
$[1.5 \times 10^{-8}, 1.6 \times 10^{-8})$	5
$[1.6 \times 10^{-8}, 1.7 \times 10^{-8})$	1
$[1.7 \times 10^{-8}, 1.8 \times 10^{-8})$	1
$[1.8 \times 10^{-8}, 1.9 \times 10^{-8})$	0
$[1.9 \times 10^{-8}, 2.0 \times 10^{-8})$	0
$[2.0 \times 10^{-8}, 2.1 \times 10^{-8})$	0
$[2.1 \times 10^{-8}, 2.2 \times 10^{-8})$	0
$[2.2 \times 10^{-8}, 2.3 \times 10^{-8})$	0
$[2.3 \times 10^{-8}, 2.4 \times 10^{-8})$	0
$[2.4 \times 10^{-8}, 2.5 \times 10^{-8})$	0
$[2.5 \times 10^{-8}, 2.6 \times 10^{-8})$	0
$[2.6 \times 10^{-8}, 2.7 \times 10^{-8})$	0
$[2.7 \times 10^{-8}, 2.8 \times 10^{-8})$	0
$[2.8 \times 10^{-8}, 2.9 \times 10^{-8})$	0
$[2.9 \times 10^{-8}, 3.0 \times 10^{-8})$	0
$[3.0 \times 10^{-8}, 3.1 \times 10^{-8})$	0
$[3.1 \times 10^{-8}, 3.2 \times 10^{-8})$	0
$[3.2 \times 10^{-8}, 3.3 \times 10^{-8})$	0
$[3.3 \times 10^{-8}, 3.4 \times 10^{-8})$	0
$[3.4 \times 10^{-8}, 3.5 \times 10^{-8})$	0
$[3.5 \times 10^{-8}, 3.6 \times 10^{-8})$	0
$[3.6 \times 10^{-8}, 3.7 \times 10^{-8})$	0
$[3.7 \times 10^{-8}, 3.8 \times 10^{-8})$	0
$[3.8 \times 10^{-8}, 3.9 \times 10^{-8})$	0
$[3.9 \times 10^{-8}, 4.0 \times 10^{-8})$	0
$[4.0 \times 10^{-8}, 4.1 \times 10^{-8})$	0
$[4.1 \times 10^{-8}, 4.2 \times 10^{-8})$	0
$[4.2 \times 10^{-8}, 4.3 \times 10^{-8})$	0
$[4.3 \times 10^{-8}, 4.4 \times 10^{-8})$	0
$[4.4 \times 10^{-8}, 4.5 \times 10^{-8})$	0
$[4.5 \times 10^{-8}, 4.6 \times 10^{-8})$	0
$[4.6 \times 10^{-8}, 4.7 \times 10^{-8})$	0
$[4.7 \times 10^{-8}, 4.8 \times 10^{-8})$	0
$[4.8 \times 10^{-8}, 4.9 \times 10^{-8})$	0
$[4.9 \times 10^{-8}, 5.0 \times 10^{-8})$	0
$[5.0 \times 10^{-8}, 5.1 \times 10^{-8})$	0
$[5.1 \times 10^{-8}, 5.2 \times 10^{-8})$	0
$[5.2 \times 10^{-8}, 5.3 \times 10^{-8})$	0
$[5.3 \times 10^{-8}, 5.4 \times 10^{-8})$	0
$[5.4 \times 10^{-8}, 5.5 \times 10^{-8})$	0
$[5.5 \times 10^{-8}, 5.6 \times 10^{-8})$	0
$[5.6 \times 10^{-8}, 5.7 \times 10^{-8})$	0
$[5.7 \times 10^{-8}, 5.8 \times 10^{-8})$	0
$[5.8 \times 10^{-8}, 5.9 \times 10^{-8})$	0
$[5.9 \times 10^{-8}, 6.0 \times 10^{-8})$	0
$[6.0 \times 10^{-8}, 6.1 \times 10^{-8})$	0
$[6.1 \times 10^{-8}, 6.2 \times 10^{-8})$	0
$[6.2 \times 10^{-8}, 6.3 \times 10^{-8})$	0
$[6.3 \times 10^{-8}, 6.4 \times 10^{-8})$	0
$[6.4 \times 10^{-8}, 6.5 \times 10^{-8})$	0
$[6.5 \times 10^{-8}, 6.6 \times 10^{-8})$	0
$[6.6 \times 10^{-8}, 6.7 \times 10^{-8})$	0
$[6.7 \times 10^{-8}, 6.8 \times 10^{-8})$	0
$[6.8 \times 10^{-8}, 6.9 \times 10^{-8})$	0
$[6.9 \times 10^{-8}, 7.0 \times 10^{-8})$	0
$[7.0 \times 10^{-8}, 7.1 \times 10^{-8})$	0
$[7.1 \times 10^{-8}, 7.2 \times 10^{-8})$	0
$[7.2 \times 10^{-8}, 7.3 \times 10^{-8})$	0
$[7.3 \times 10^{-8}, 7.4 \times 10^{-8})$	0
$[7.4 \times 10^{-8}, 7.5 \times 10^{-8})$	0
$[7.5 \times 10^{-8}, 7.6 \times 10^{-8})$	0
$[7.6 \times 10^{-8}, 7.7 \times 10^{-8})$	0
$[7.7 \times 10^{-8}, 7.8 \times 10^{-8})$	0
$[7.8 \times 10^{-8}, 7.9 \times 10^{-8})$	0
$[7.9 \times 10^{-8}, 8.0 \times 10^{-8})$	0
$[8.0 \times 10^{-8}, 8.1 \times 10^{-8})$	0
$[8.1 \times 10^{-8}, 8.2 \times 10^{-8})$	0
$[8.2 \times 10^{-8}, 8.3 \times 10^{-8})$	0
$[8.3 \times 10^{-8}, 8.4 \times 10^{-8})$	0
$[8.4 \times 10^{-8}, 8.5 \times 10^{-8})$	0
$[8.5 \times 10^{-8}, 8.6 \times 10^{-8})$	0
$[8.6 \times 10^{-8}, 8.7 \times 10^{-8})$	0
$[8.7 \times 10^{-8}, 8.8 \times 10^{-8})$	0
$[8.8 \times 10^{-8}, 8.9 \times 10^{-8})$	0
$[8.9 \times 10^{-8}, 9.0 \times 10^{-8})$	0
$[9.0 \times 10^{-8}, 9.1 \times 10^{-8})$	0
$[9.1 \times 10^{-8}, 9.2 \times$	

