WHAT IS CLAIMED IS:

1. A method comprising:

receiving, by a computer node in a network including a plurality of computer nodes, a plurality of data values from the plurality of computer nodes, each computer node creating a data value of the plurality of data values based on a computation time that the computer node in the plurality of computer nodes takes to perform a function;

~~providing,~~ receiving, by the computer node from a remote computer, interaction data;

processing, by the computer node, the interaction data in parallel with performing the function;

determining, by the computer node, the computation time that the computer node takes to perform the function;

determining, by the computer node, a difference between the computation time that the computer node takes to perform the function and each data value of the plurality of data values;

providing, by the computer node, differences between the computation time and each of the plurality of data values or derivatives thereof as random values to an entropy pool of random values;

selecting, by the computer node, a selected random value from the entropy pool; and

initiating, by the computer node, use of the selected random value in an operation.

~~2. The method of claim 1 further comprising:~~

~~receiving, by the computer node from a remote computer, interaction data;~~

~~processing, by the computer node, the interaction data in parallel with performing the function; and~~

~~determining, by the computer node, a first data value based on the function.~~

23. The method of claim 1,2 further comprising:

evaluating, by the computer node, metadata of the interaction data;

collecting, by the computer node, entropy values from timestamps in the metadata; and

providing, by the computer node, the entropy values or derivatives thereof as random values to the entropy pool.

~~4. The method of claim 2, wherein the first data value is the time that the computer node takes to perform the function.~~

~~5. The method of claim 4 further comprising:~~

~~determining, by the computer node, a difference between the first data value and each data value of the plurality of data values, and wherein the derivatives of the data values are differences between the first data value and each of the plurality of data values.~~

~~3~~6. The method of claim 1, wherein initiating the use of the selected random value in the operation further comprises:

inputting, by the computer node, the selected random value into a pseudorandom function generator that outputs a second random value; and

generating, by the computer node, one or more encryption keys using the second random value.

~~4~~7. The method of claim 1, wherein the operation relates to lottery operations, gambling machine operations, video game operations, image processing and reconstruction operations, music composition options, graphics composition operations, scientific modeling simulations, financial modeling simulations, program and algorithm testing operations, or equation-solving operations.

~~5~~8. The method of claim 1, wherein the plurality of data values are a plurality of random values received from the plurality of computer nodes.

~~6~~9. The method of claim 1, wherein the selected random value is a random number.

~~7~~10. The method of claim 1, further comprising:

whitening, by the computer node, the plurality of data values or derivatives thereof prior to providing the plurality of data values or derivatives thereof to the entropy pool.

~~8~~11. A computer node comprising:

a computer-readable medium comprising code for implementing a method comprising:

receiving a plurality of data values from a plurality of computer nodes, each computer node creating a data value of the plurality of data values based on a computation time that the computer node in the plurality of computer nodes takes to perform a function;

receiving interaction data from a remote computer;

processing the interaction data in parallel with performing the function;

determining the computation time that the computer node takes to perform the function;

determining a difference between the computation time that the computer node takes to perform the function and each data value of the plurality of data values;

providing differences between the computation time and each of the plurality of data values or derivatives thereof as random values to an entropy pool of random values;

selecting a selected random value from the entropy pool; and

initiating use of the selected random value in an operation.

~~12. The computer node of claim 11, wherein the method further comprises:~~

~~receiving, from a remote computer, interaction data;~~

~~processing the interaction data in parallel with performing the function; and~~

~~determining a first data value based on the function.~~

9~~13~~. The computer node of claim 8~~12~~, wherein the method further comprises:

evaluating metadata of the interaction data;

collecting entropy from timestamps in the metadata; and

providing the entropy or derivatives thereof as random values to the entropy pool.

~~14. The computer node of claim 12, wherein the first data value is the time that the computer node takes to perform the function.~~

~~15. The computer node of claim 14, wherein the method further comprises:~~

~~determining a difference between the first data value and each data value of the plurality of data values, and wherein the derivatives of the data values are differences between the first data value and each of the plurality of data values.~~

10~~16~~. The computer node of claim 8~~11~~, wherein initiating the use of the selected random value in the operation further comprises:

inputting the selected random value into a pseudorandom function generator that outputs a second random value; and

generating one or more encryption keys using the second random value.

1117. The computer node of claim 811, wherein the operation relates to lottery operations, gambling machine operations, video game operations, image processing and reconstruction operations, music composition options, graphics composition operations, scientific modeling simulations, financial modeling simulations, program and algorithm testing operations, or equation-solving operations.

1218. The computer node of claim 811, wherein the plurality of data values are a plurality of random values received from the plurality of computer nodes.

1319. The computer node of claim 811, wherein the selected random value is a random number.

1420. The computer node of claim 8,11 wherein the method further comprises:

whitening the plurality of data values or derivatives thereof prior to providing the plurality of data values or derivatives thereof to the entropy pool.