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(54) **Generation of random numbers from an uninitialised memory unit**

(57) A method for generating a random number (450) comprises the steps of gathering (100) a multitude of binary values from a multitude of memory locations of an uninitialized memory unit, wherein a first binary value is gathered from a first memory location (125), wherein a second binary value is gathered from a second memory location (128), wherein the second memory location (128) is determined based on the first binary value and

a predetermined random seed value. The multitude of binary values is output as a first random number (102) and the random number (450) is determined based on the first random number. Thus, the binary values are selected uniformly spread over the memory unit and may provide better quality randomness. Optionally, the method may combine multiple sources of entropy.

