RANDOM NUMBER GENERATOR

ABSTRACT

A method for generating a random number is proposed for a system clock, a counter and a processing unit for performing actions. First a work action is repeated several times within a predetermined interval. The number of repetitions of said work action is counted (Step 3). The repetition number is mapped to a fixed range returning an actual sample value (Step 6). The returned actual sample is concatenated with a previous such sample value to form a sample sequence (Step 7) whose amount of information is then assessed (Step 8). These steps are repeated until the assessment results in that the contained amount of information is greater or equal to a predetermined amount target number. Then the sample is compressed into a bit sequence with a length smaller or equal to the amount target number (Step 10).

FIG 1