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## Random Value Generation Through a Collected Sample of IP Addresses

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## Random value Generation Trough a Collected Sample of IP Addresses.

### ABSTRACT

This disclosure describes a method to collect a random value set from a set of IP addresses collected by a search engine. A search engine collects all the IP addresses that reaches it during search requests during a pre-configured duration of time. The search engine then converts all the IP addresses into numerical values. After the conversion process the set of numerical values are partitioned into byte streams of pre-configured size. The search engine will eliminate any redundant byte stream partitions. The resulting set of byte partitions are used as random value partitions.

### KEYWORDS

- IP address
- Search engine
- Random

### BACKGROUND

Random numbers have applications in many areas ranging from gambling to cryptography. In all of the situations generating random numbers is a challenging issue.

### DESCRIPTION

This paper describes a method to collect a set of random numerical partitions. A search engine is used as the main utility for the collection process. The search engine collects and stores all the IP addresses it receives with search requests. It

then converts all the IP addresses into numerical values. That is the bit values used in representing the IP addresses are treated as numerical values. After this conversion process the set of numerical values are partitioned into byte streams of pre-configured size. The search engine will remove any redundant byte streams of same bit configurations. The resulting set of byte partitions are used as random partition values. This method takes the advantage of the fact that the nature of the search requests the search engine receives during a particular time duration is very diverse. That is various users from various IP addresses (various geographical locations) would send search requests to the search engine. This will result in obtaining a set of IP addresses with a great variety effectively paving way for the collection of a numerical values with a great variety-a set of random values.