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Subject: simpleEvtGen default EvtRandomEngine  
Posted by [Marius Mertens](#) on Thu, 06 Aug 2009 15:57:17 GMT  
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Hi all,

the default EvtRandomEngine used by simpleEvtGen is basically the generator below:

```
double EvtRandomEngine::random(){
  static unsigned long int next = 1;
  next=next*1103515245+123345;
  unsigned temp=(unsigned)(next/65536) % 32768;
  return ( temp + 1.0 ) / 32769.0;
}
```

At the first glance, it does seem rather simple, but I don't have sufficient experience with pseudo random number generation to estimate the properties of the sequences generated with above code. Can anybody tell me something about the properties/random quality of the sequences and their suitability for event generation?

Best regards,

Marius

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