

# Misleading experiments results

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*Source:* <http://sci.tech-archive.net/Archive/sci.stat.edu/2008-06/msg00018.html>

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  - *Date:* Thu, 19 Jun 2008 11:41:53 +0200 (CEST)
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I am having problem with experimental results.

I am analysing algorithm performance, which has random nature. Since its for security application the more random the better, which will hide small dependencies under.

What i do is comparison its structure(it results in directed graph with each vertex having one outer edge) to random mapping.

Now run tests, and look for graphs with number of vertex 128, create random mapping graph, and graph for my algorithm and checks number of cycles of different length and so, the number of different graph is  $128^{128}$ , what is my problem know that for number of test  $T=10000$ , the results for both doesn't converge and oscillate.

Could you tell me how many test need to be run to get more convergenous results? or point some source where such info can be got.

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