

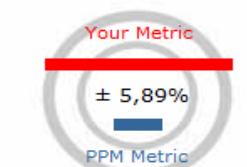
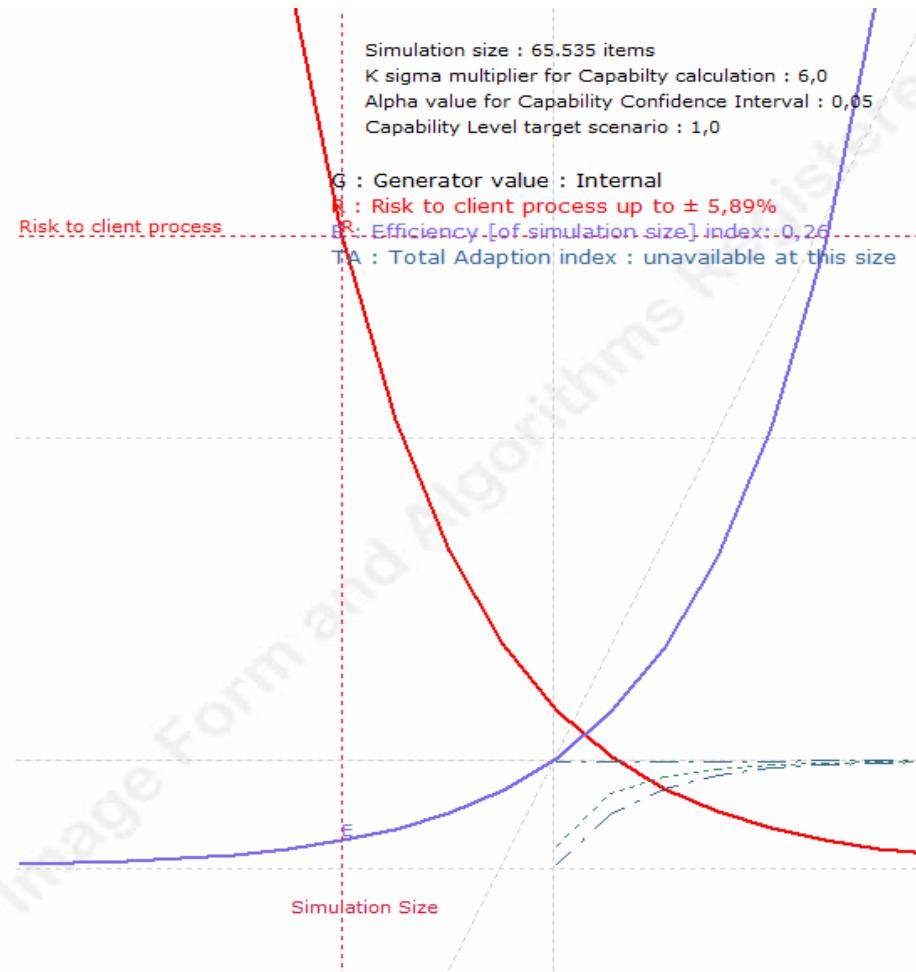


The Dalmatian Test version
Comparison Study
Data-File

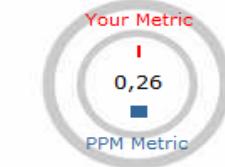
1.00.04.18 [32 bit]
Beta_64_kB
not saved

Is My Edition

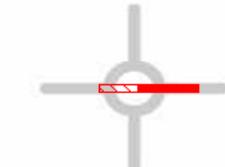
G.r.e.t.a p&ss graph - Power and Sample Size for Montecarlo Simulation



Unit Resolution Plot



Efficiency Plot



Expected Bias Value
and Sundog event probability



Required Memory [32 bit]





This Comparison Study		Beta Distribution
Generator	Mersenne Twister 2002	
Seed value	Internal	
Simulated Items	65.535	
K sigma multiplier for capability calculation	6,00	
Alpha value for Capability CI	0,05	
nearTrue extended range	disabled	
Unit In-Metric Test value [%]	auto CI	
Simulation size Efficiency index	0,26	
Total Adaption index	unavailable at this size	
Memory peak in this Win32 process [MB]	1,00	
Residual and available Win32 memory [%]	99,95%	
Total Time for this Comparison calculation [s]	0,12	

Data Entry Summary	[A] Beta	[B] Beta	[C] Beta	[D] Beta	[E] Beta	[F] $d[0.5*x^2]/dx$
Data Distributed as						
1* Par Value	2	2	2	2	2	2
2* Par Value	3	3	3	3	3	3
3* Par Value						
4* Par Value						
Lower Spec Limit	0,1	0,1	0,1	0,1	0,1	0,1
Upper Spec Limit	0,9	0,9	0,9	0,9	0,9	0,9

Moment Values	[A] Master	[B] Brute Normal	[C] ISO D_ID	[D] Bothe D_ID	[E] LuLu	[F] $d[0.5*x^2]/dx$
Procedure						
Moment 1 - [Mean]	0,4	0,400744	0,400744	0,400744		0,4
Bias		0,000744	0,000744	0,000744		
Sqrt(Moment 2) - [Standard Deviation]	0,2	0,200028	0,200028	0,200028		0,2
Bias		0,000028	0,000028	0,000028		
Moment 3 - [Skewness]	0,285714	0,27582	0,27582	0,27582		0,285714
Bias		-0,009894	-0,009894	-0,009894		
Moment 4 - [Kurtosis]	-0,642857	-0,643808	-0,643808	-0,643808		-0,642857
Bias		-0,00095	-0,00095	-0,00095		
Moment 2 - [Variance]	0,04	0,040011	0,040011	0,040011		0,04
Bias		0,000011	0,000011	0,000011		
Coefficient of Variability	0,5	0,499142	0,499142	0,499142		0,5
Mean Standard Error		0,000781	0,000781	0,000781		

Distribution Identification Cycle	[A]	[B]	[C]	[D]	[E]	[F]
D(1)_ID - Kolmogorov-Smirnov	0	0,005313		0,003269	0,003269	





Calculated parameters i.e. Output to Client Process		L	U	[A] Theo	[B] Normal	[C] ISO D_ID	[D] Bothe D_ID	[E] LuLu	[F] Normal
Capability Algorithm				0,540983	0,501169 -0,039814	0,771849 0,230865	0,542481 0,001498		-0,122222 -0,663206
PpK									
Bias									
PpK - Metric Test		0,539989	0,541978		false	false	false		false
PpL				0,540983	0,501169 -0,039814	0,771849 0,230865	0,542481 0,001498		0,211111 -0,329872
Bias									
PpL - Metric Test		0,539989	0,541978		false	false	false		false
PpU				0,892762	0,831977 -0,060785	0,945917 0,053155	0,891678 -0,001084		-0,122222 -1,014984
Bias									
PpU - Metric Test		0,891363	0,894161		false	false	true		false
Pp				0,716873	0,666573 -0,050299	0,87521 0,158338	0,717079 0,000207		0,044444 -0,672428
Bias									
Pp - Metric Test		0,715879	0,717866		false	false	true		false
L-OofS				52300	66354,07893 14054,07893	10291,52378 -42008,47623	51821,48686 -478,513143		263257,995 210957,995
Bias									
L-OofS - Metric Test	[auto CI]	51981,8666	52619,6775		false	false	false		false
L-OofS - Metric % Variation	[auto CI]	-0,61%	0,61%		26,87%	-80,32%	-0,91%		403,36%
U-OofS				3700	6281,329652 2581,329652	2271,637207 -1428,362793	3736,092841 36,092841		643066,1633 639366,1633
Bias									
U-OofS - Metric Test	[auto CI]	3653,88737	3746,633961		false	false	true		false
U-OofS - Metric % Variation	[auto CI]	-1,25%	1,26%		69,77%	-38,60%	0,98%		17280,17%
OofS				56000	72635,40858 16635,40858	12563,16098 -43436,83902	55557,5797 -442,420302		906324,1583 850324,1583
Bias									
OofS - Metric Test	[auto CI]	55635,75397	56366,31146		false	false	false		false
OofS - Metric % Variation	[auto CI]	-0,65%	0,65%		29,71%	-77,57%	-0,79%		1518,44%



BenchMark of Procedures	[A] Master	[B] Brute Normal	[C] ISO D_ID	[D] Bothe D_ID	[E] LuLu	[F] $d[0.5*x^2]/dx$
Procedure						
Common statistical calculation [s]					0,01351	
15 times the Kolmogorov-Smirnov cycle time for the identification of a unknown dataset (unknown master) [s]					1,279697	
Procedure Capability Algorithm [s]					0,00005	
Estimated total Time [s] using Intel(R) Core(TM) i7-6700HQ CPU @ 2.60GHz					1,293257	
 <p>KS algorithm is used in this tool mainly to get the relative computing time in D_ID Cycle, without additional memory requirement. Note that if you use a different algorithm in the D_ID loop, the time and memory needed for GoF will increase significantly. (or alternatively the simulation size must be reduced) The absolute speed is instead a function of the performance and characteristics of used generator (NtRand © 3.3. in our case)</p>						

Procedure comparison at same Win32 memory

