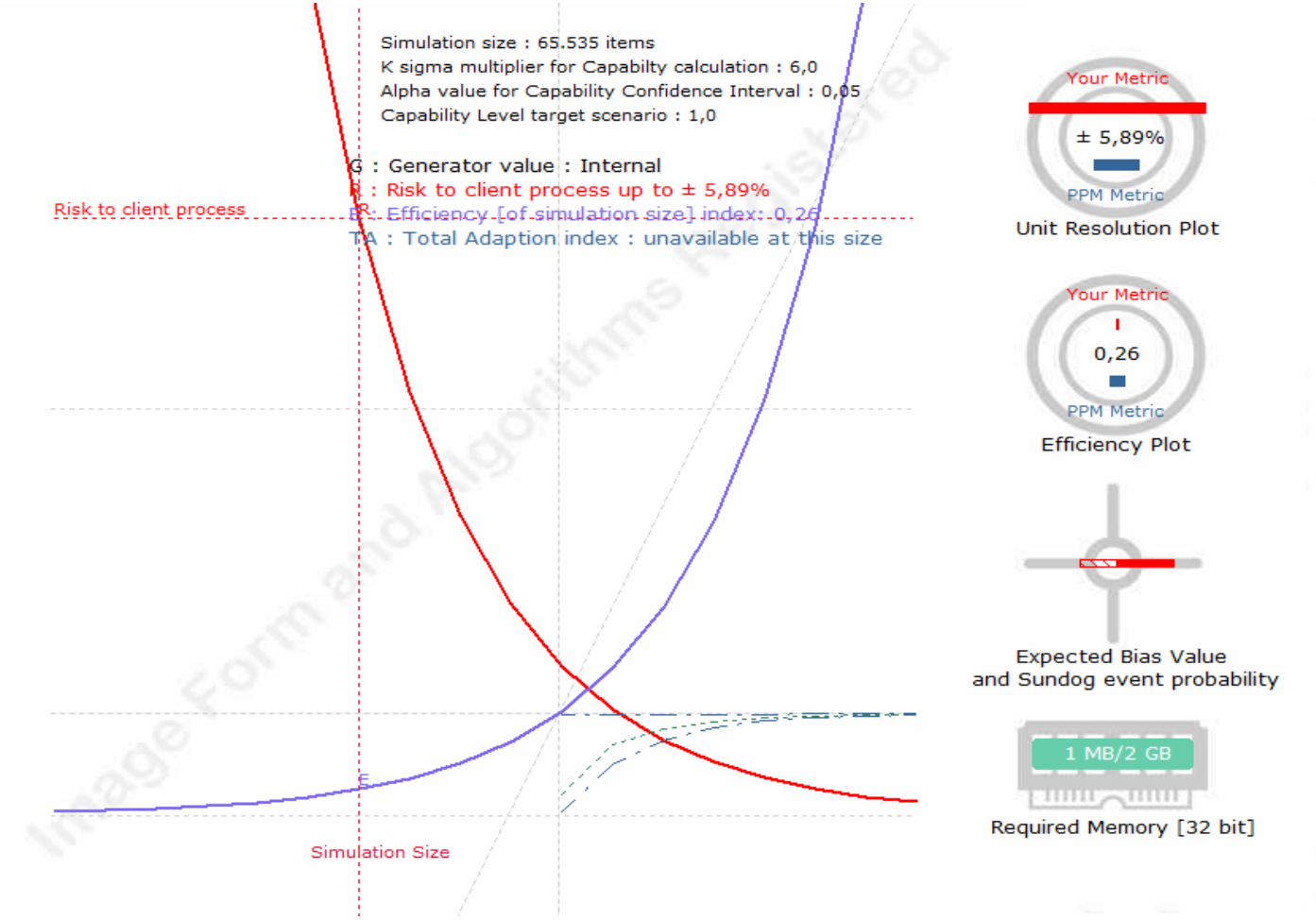
The Dalmatian Test version	1.00.04.18	[32 bit]	Registered pro edition	Is My Edition
Comparison Study	Weibull_64_kB			
Data-File	not saved			

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



This Comparison Study	Weibull 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]	0,07

Data Entry Summary	[A]	[B]	[C]	[D]	[E]	[F]
Data Distributed as	Weibull	Weibull	Weibull	Weibull	Weibull	d[0.5*x^2]/dx
1* Par Value	1,64181	1,64181	1,64181	1,64181		1,64181
2* Par Value	0,894284	0,894284	0,894284	0,894284		0,894284
3* Par Value						
4* Par Value						
Lower Spec Limit	0,3	0,3	0,3	0,3		0,3
Upper Spec Limit	2,1	2,1	2,1	2,1		2,1

Moment Values	[A]	[B]	[C]	[D]	[E]	[F]
Procedure	Master	Brute Normal	ISO D_ID	Bothe D_ID	LuLu	d[0.5*x^2]/dx
Moment 1 - [Mean]	0,8	0,800604	0,800604	0,800604		0,8
Bias		0,000604	0,000604	0,000604		
Sqrt(Moment 2) - [Standard Deviation]	0,5	0,500976	0,500976	0,500976		0,5
Bias		0,000976	0,000976	0,000976		
Moment 3 - [Skewness]	0,919993	0,948961	0,948961	0,948961		0,919993
Bias		0,028968	0,028968	0,028968		
Moment 4 - [Kurtosis]	0,922545	1,083836	1,083836	1,083836		0,922545
Bias		0,161291	0,161291	0,161291		
Moment 2 - [Variance]	0,25	0,250977	0,250977	0,250977		0,25
Bias		0,000977	0,000977	0,000977		
Coefficient of Variability	0,625	0,625747	0,625747	0,625747		0,625
Mean Standard Error		0,001957	0,001957	0,001957		

Distribution Identification Cycle			[A]	[B]	[C]	[D]	[E]	[F]
D(1)_ID - Kolmogorov-Smirnov	0	0,005313			0,00288	0,00288		

Calculated parameters i.e. Output to Client Process Capability Algorithm		L	U	[A] Theo	[B] Normal	[C] ISO D_ID	[D] Bothe D_ID	[E] LuLu	[F] Normal
PpK				0,340783	0,333086	0,593988	0,340528		0,170785
Bias					-0,007697	0,253205	-0,000255		-0,169998
PpK - Metric Test		0,339977	0,341589		false	false	true		false
PpL				0,340783	0,333086	0,593988	0,340528		0,500143
Bias					-0,007697	0,253205	-0,000255		0,15936
PpL - Metric Test		0,339977	0,341589		false	false	true		false
PpU				0,704942	0,864576	0,654533	0,703358		0,170785
Bias					0,159635	-0,050408	-0,001583		-0,534157
PpU - Metric Test		0,703766	0,706117		false	false	false		false
Pp				0,522862	0,598831	0,639483	0,521943		0,335464
Bias					0,075969	0,116621	-0,000919		-0,187398
Pp - Metric Test		0,522137	0,523587		false	false	false		false
L-OofS				153307,9491	158834,8923	37377,47738	153489,0584		66751,61314
Bias					5526,943246	-115930,4717	181,109357		-86556,33593
L-OofS - Metric Test	[auto CI]	152736,5335	153880,7793		false	false	true		false
L-OofS - Metric % Variation	[auto CI]	-0,37%	0,37%		3,61%	-75,62%	0,12%		-56,46%
U-OofS				17222,43844	4747,060845	24788,21988	17425,93825		304201,4329
Bias					-12475,3776	7565,781441	203,499814		286978,9944
U-OofS - Metric Test	[auto CI]	17072,68662	17373,31108		false	false	false		false
U-OofS - Metric % Variation	[auto CI]	-0,87%	0,88%		-72,44%	43,93%	1,18%		1666,31%
OofS				170530,3875	163581,9532	62165,69726	170914,9967		370953,046
Bias					-6948,434349	-108364,6903	384,609171		200422,6585
OofS - Metric Test	[auto CI]	169809,2201	171254,0903		false	false	true		false
OofS - Metric % Variation	[auto CI]	-0,42%	0,42%		-4,07%	-63,55%	0,23%		117,53%

BenchMark of Procedures	[A]	[B]	[C]	[D]	[E]	[F]
Procedure	Master	Brute Normal	ISO D_ID	Bothe D_ID	LuLu	d[0.5*x^2]/dx
Common statistical calculation [s]				0,013707		
15 times the Kolmogorov-Smirnov cycle time for the identification of a unknown dataset (unknown master) [s]				0,589576		
Procedure Capability Algorithm [s]				0,000007		
Estimated total Time [s] using Intel(R) Core(TM) i7-6700HQ CPU @ 2.60GHz				0,60329		

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)