"CONFIDENTIAL"

ATTENTION: TEAM PRINCIPAL & RACE ENGINEER, FIVE STAR RACING INC.

LAP TIME SIMULATION REPORT



By Director of Testing and Development, Five Star Racing Date: March 14, 2011

Sources:

<u>http://www.attwilliams.com/</u> <u>http://mclaren.com/home</u> <u>http://www.redbullracing.com/cs/Satellite/en_INT/Red-Bull-Racing/001242807156063</u> <u>http://www.ferrari.com/English/Formula1/Pages/Home.aspx</u> <u>http://www.mercedes-gp.com/en/#/category/race/</u>

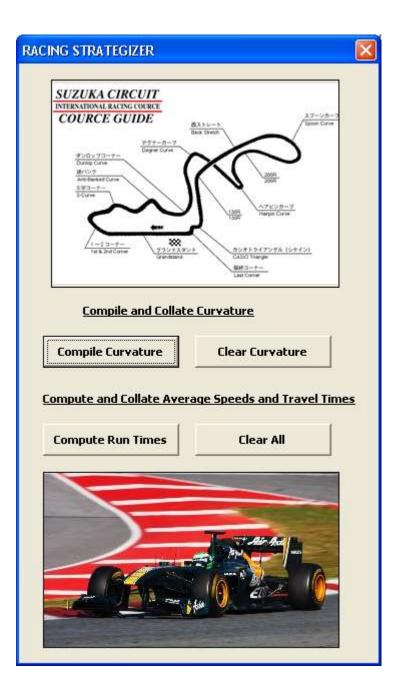
CAUTION AND DISCLAIMER:

THIS REPORT IS INTENTIONALLY INCOMPLETE AND NOT ORGANIZED TO THAT OF AN ACTUAL SUBMITTAL. STUDENTS ARE TO USE IT TO GAIN INSIGHT ON THE APPLICATIONS OF SOME OF THE CONCEPTS WE HAVE LEARNED IN CLASS, SOME OF THE TOOLS AVAILABLE IN THE SOFTWARES, AND AS A GUIDE REGARDING SOME OF THE DUE DILLIGENCE NEEDED TO SUCCESSFULLY COMPLETE THEIR PROJECTS.

Kwabena Ofosu, PhD, PE Instructor EGS 2025 Probability and Statistics for Engineers VCC Orlando, Fl The purpose of this report is to simulate the time it takes to run this track by a race car. The track has been subdivided into 11 straightways and 10 turns. The time it took for the test driver to run each section over 10 laps was logged by our specialty GPS data logger.

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	1	98393.2	4624.764	4.638552	11	38 50332			246.09	152.92	51.0	160.53	0.01	
	1	98393.4	4652 285	4 652285	11				247.15	153.57	51.5	160.48	0.14	
		18393.4	4666 221	4 666221	11			68 76	247 52	153.8	51.5	100.48	0.05	
		96393.8	4680.009	4.680009	11	-38.50367		63.96	248.24	154.25	61.41	160.37	0.1	
		98394	4694.185	4.654185	11	-38.50379		69.15	245.93	154.68	51.21	160.37	0.1	
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	í.	98354.4	4722 185	4.722189	12			69.67	255.82	155.85	50.59	160.34	0.2	
	î.	98394 6	4736.181	4,736181	12			69.59	260.62	155 67	60.41	100.25	-0.04	
	1	98394.8	4750.488	4.750488	12			69.66	251.5	156.28	50.2	160.52	0.14	
	1	98395	4764.443	4 764443	12				251.37	156.2	50.2	160.75	-0.02	
	Ť	96395.2	4778.565	4 778565	12				251 37	156.2	50	160.85	0	
	1	98395.6	4605.827	4.806827	12			69.68	250.83	155 86	49.2	161.12	-0.04	
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	1	98396	4834.237	4.834237	12				243 43	151.26	48.59	161.46	-0.57	
	1	98396.2	4847.876	4 847876	12	-38 50510	33 145.2332383	66.53	239.5	148 82	48.3	161.58	-0.56	
	1	18396.4	4861.331	4.861331	12	-38 50521	83 145.2332867	65.19	234-67	145.82	48	161.6	-0.68	
	1	98396.6	4874.23	4.87423	12	38.60532	63 145.2333333	63.58	228.67	142.21	47.0	161.74	-0.82	
	1	98396.8	4996.721	4.886721	12	-38.5054	35 145 2333783	61.94	223	138 57	47.5	161.79	-0.83	
	1	98397	4898.989	4.998989	12				217.3	135 02	47.09	161.86	-0.81	
	1	16397.2	4910.905	4 910905	12			59.08	212.7	132.17	46.61	161.94	-0.65	
	1	96397.4	4522.622	4.922822	12			57.01	208.11	129.31	46.2	161.89	0.65	
	1	98397.6	4934 33	4.93433	12				204.15	126 85	46.9	161.98	-0.56	
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	1	18397.8	4945.672	4 945672	. 12				199,29	123.84	45.5	162.19	-0.69	
	1	99398	4955.718	4.956718	12			54.23	195.22	121.3	45.29	162.62	-0.58	
	1	98398.2	4967.578	4.967578	12			53.15	191.33	118.89	44.79	162.95	-0.55	
	1	96358.4	4578.123	4 978123	12		Contraction of the second s	52.2	187 3	116.76	44.5	163.78	-0.49	
	1	16398.0	4988.519	4 988519	12				184.83	114.85	44.11	164.43	-0.44	
	1	96396.6	4998.638	4.990638	12			50.59	182.13	113.17	43.61	165.49	-0.38	
	1	98399	5008 905	5 000905	12				178.61	110.98	43.2	167.09	-0.5	
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A computer program was developed to extract the data in the format it was logged, add designations of what straight or turn the vehicle was in at the time the data was logged.



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	239.91 240.05	149.07	51.21	160.9	0.13	0.04	6.03 9.38	-14.46		1				
	241.63	150.14	513	160.83	0.15	0.04	13.73	-39.84		1				
	242.8	150.87	51.5	160.82	0.17	0.01	18 (9	-52.63		t				
	244.64	151.95	51.59	160.8	0.25	0.01	22.58	-66.42		1				
	244.66	152.02	51.71	160.66	0.02	0.08	26.93	-78.39		1				
	243	150.99	5171	160.64	-0.23	0.01	31.43	-91.1B		1				
	242.7	150.81	51.5	160.43	-0.04	0.13	36.07	-103 97		t				
	246.09	152.92	61.6	160.6	0.40	-0.04	40.57	-116.75		1				
	246.15	152.95	51.5	160.53	0.01	-0.02	45.21	129.73		it.				
	247.15	153.57	51.5	160.48	0.14	0.03	49.7	-142.7		1				
	247.52	153.8	51.5	160.48	0.05	0	54.34	-155 86		t				
	248.24	164.25	61.41	160.37	0.1	0.07	58.98	-168.83		rt.				
	248.93	154.68	51.21	160.37	0.1	0	63.77	-182.17		1				
	249.41	154.98	50.91	160.36	0.07	0.01	68.56	-195.33		đ				
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	250.52	165.67	50.41	160.26	-0.04	0.05	78.13	-221.65		1				
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	250.83	155.85	49.2	160 85	-0.04	-0.08	101.33	-268.37		1				
	247.48	153.78	48.91	161.29	-0.47	-0.00	101.33	-301.34		1				
	243.43	151.26	48.59	161.46	-0.57	-0.1	110.18	-314 31		1				
	239.5	148.82	48.3	161.58	-0.56	-0.07	114.38	-327.28		1				
	234.67	145.82	48	161.6	-0.68	-0.01	118.69	-340 07		ă.				
	228.87	142.21	47.8	161.74	-0.02	-0.08	122.65	-362.3		1				
	223	138 57	47.5	161.79	-0.83	-0.03	126.57	-364.16		1				
	217.3	135.02	47.09	161.86	-0.01	-0.04	130.34	-375.84		1				
	212.7	132,17	46.61	161,94	-0.65	-0.04	134.11	-387.14		1				
	208.11	129.31	46.2	161.89	-0.65	0.03	137.08	-398.45		1				
	204.15	126.85	45.9	161.98	0.55	-0.05	141.5		Turn 1 Entry t					
	204.15	126.85	45.9	161.98	0	0	141.5	-409.38	1					
	199-29	123.84	45.6	162.19	-0.69	-0.1	145 13	-420-13	1					
	195.22	121.3	45.29	162.62	-0.58	-0.21	148.32	-430.7						
	191 33	118.09	44.73	162.96	-0.55	+0.16	151 51	441.87	1					
	187.9	116.76	44.5	163.78	-0.49	-0.35	154.27	-451.27						
	184 83	114.85	43.61	164.43 165.49	-0.44 -0.38	-0.3	157.02	-461.27 -471.1	1	1				
	178.61	110.98	43.61	165.49	-0.5	0.48	159.49	481.1	1					
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The program then proceeds to compute parameters such as distance traveled, average speed, and travel time, for each straight and turn. For the 10 laps, the calculated values for each straightaway and turn are then compiled and collated. The mean and standard deviation were also computed for each dataset.

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		0.84295					6.279476					0.482799					9 510551	
		0.064543					0 596368					0.056469					3.456063	

The next step is to determine the best distribution that represents the travel time over each straightway and turn. To do this the data is exported to Minitab to make use of Minitab's distribution fitting tools. For a distribution to qualify to represent that dataset, it must produce a p-value greater than the alpha value, and it must have the lowest AD-value among the competing distributions. If no distribution passes then we must make an educated guess based on the data. We can make an educated guess using the Triangular distribution. The process is described in detail the following sections of this memo.

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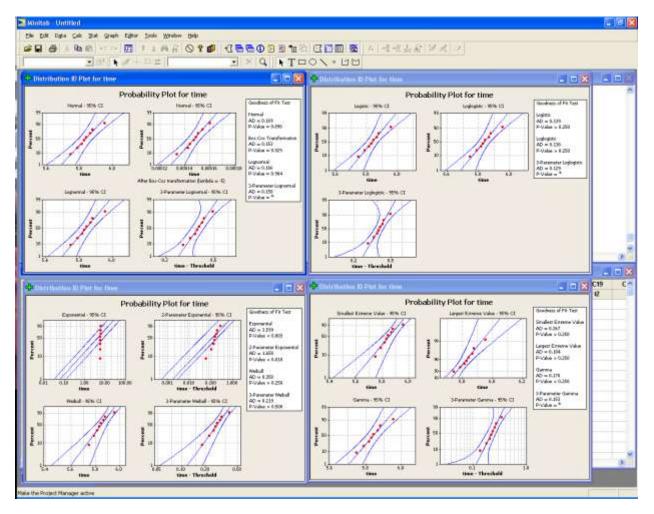
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Section 1 (s1)



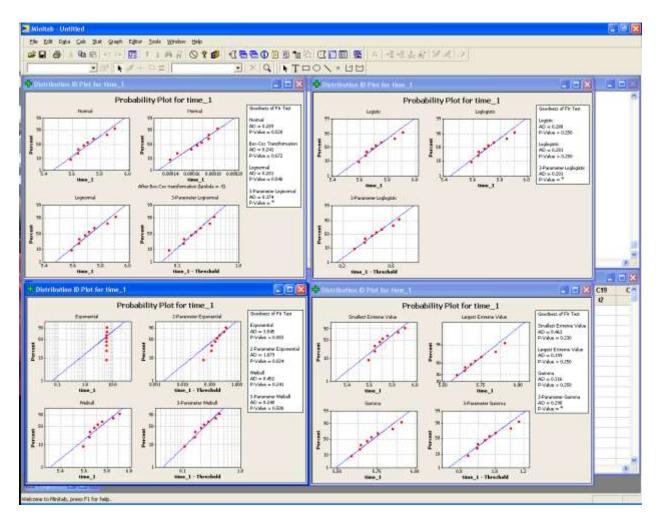
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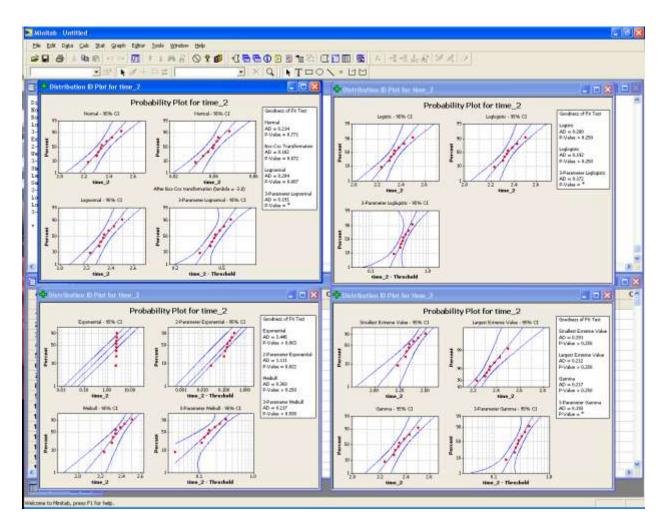
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	C1 dist 0.240634 0.243162 0.243045 0.247096 0.244543 0.244543 0.244389 0.242770	C2 speed 149.738 149.201 150.150 152.321 149.987 151.339 152.170	time 5.79533 5.86397 5.82725 5.83994 5.87674 5.81343 5.74309	and the second second	Beson Belg Cashy Egonertisi Gerea Logget Euhene Value Logget Euhene Value Logget E Soulder Euhene Value Topropile	time_1 1 5.64728 9 5.74972 1 5.90690 2 5.88208 1 5.64134 3 5.68686 9 5.70832		elise_2 0.0654175 0.0692734 0.0694896 0.0663244 0.0681676 0.0668033 0.0668033 0.0696061	speed_2 105.842 103.401 100.221 103.171 105.772 102.864 103.461	time_2 2 22504 2 37701 2 49610 2 33173 2 29639 2 33797 2 42229		C15	diet_3 0.218877 0.219823 0.219988 0.219965 0.215376 0.216376 0.216379 0.21879	speed_3 77 5766 76.8926 76.8770 76.4824 77 2573 77 9307 77 3893	time_3 10.1572 10.2358 10.3016 10.3348 10.0360 9.9654 10.1768	C19	
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	C1 dist 0.240634 0.243162 0.243045 0.247096 0.244543 0.244543 0.244399 0.242770	C2 speed 149,736 149,201 150,350 155,321 149,987 151,339 152,170 146,554	time 5.79533 5.86397 5.82725 5.83994 5.87674 5.81343 5.74309	and the second second	Beson Belg Cashy Egonertisi Gerea Logget Euhene Value Logget Euhene Value Logget E Soulder Euhene Value Topropile	time_1 1 5.64728 9 5.74972 1 5.90690 2 5.88208 1 5.64134 3 5.68686 9 5.70832		elise_2 0.0654175 0.0692734 0.0694896 0.0663244 0.0681676 0.0668033 0.0668033 0.0696061	speed_2 105.842 103.401 100.221 103.171 105.772 102.864 103.461	time_2 2 22504 2 37701 2 49610 2 33173 2 29639 2 33797 2 42229		CT5	diet_3 0.218877 0.219823 0.219988 0.219965 0.215376 0.216376 0.216379 0.21879	speed_3 77 5766 76.8926 76.8770 76.4824 77 2573 77 9307 77 3893	time_3 10.1572 10.2358 10.3016 10.3348 10.0360 9.9654 10.1768	C19	

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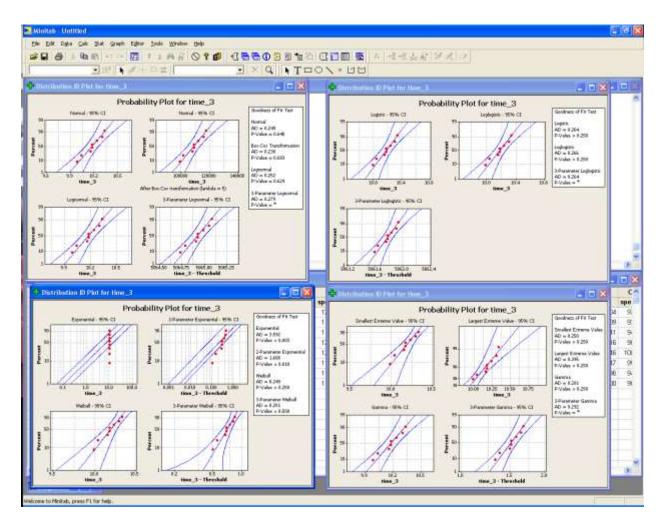
Section 2 (t1)



Section 3 (s2)

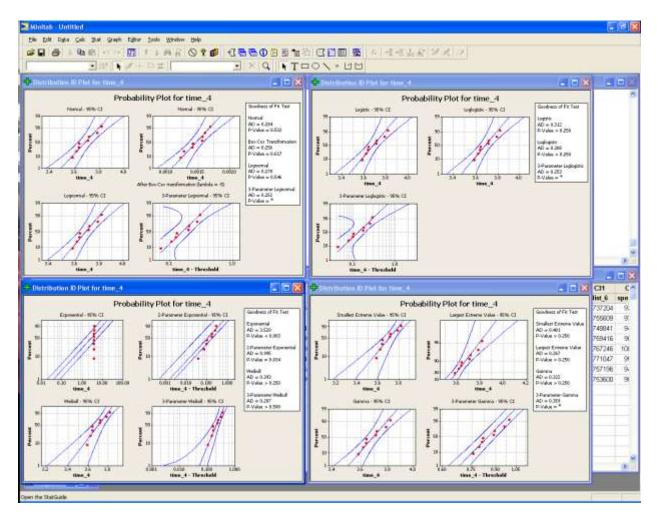


Section 4 (t2)

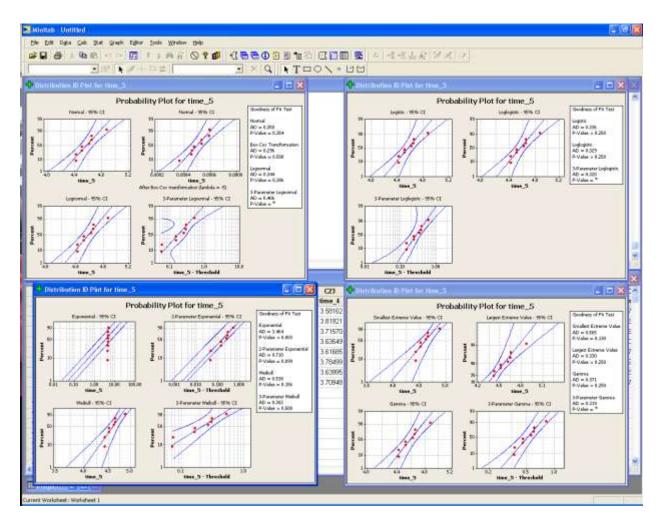


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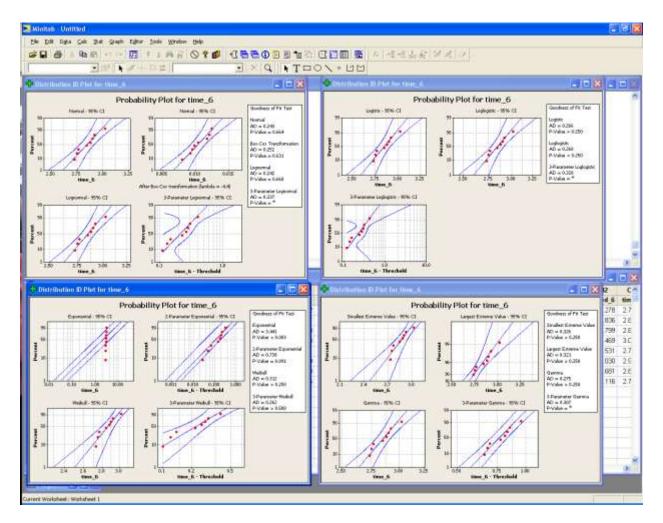
Section 5 (s3)



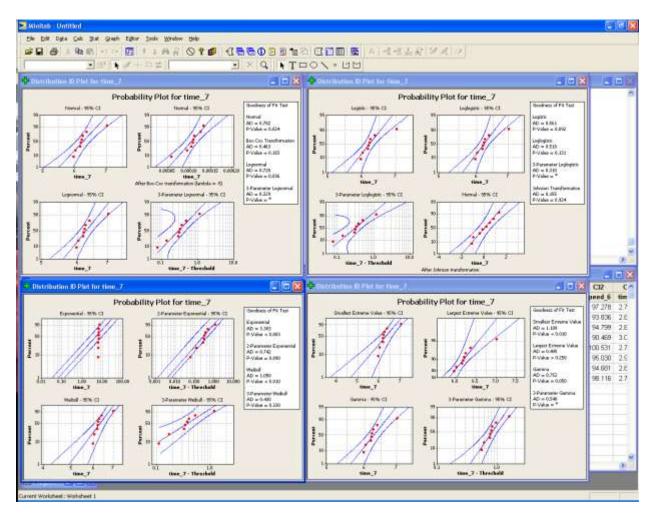
Section 6 (t3)



Section 7 (s4)

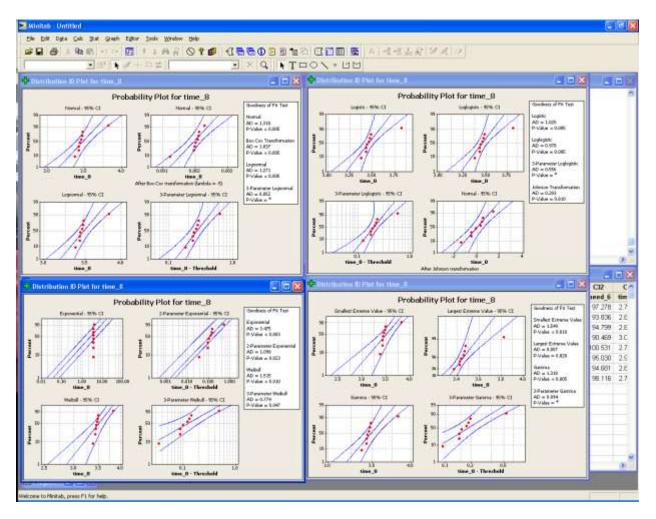


Section 8 (t4)



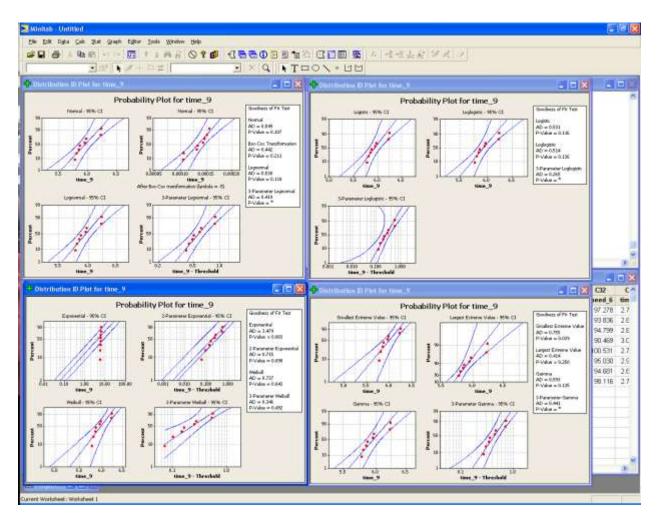
Lognormal [but questionable]

Section 9 (s5)

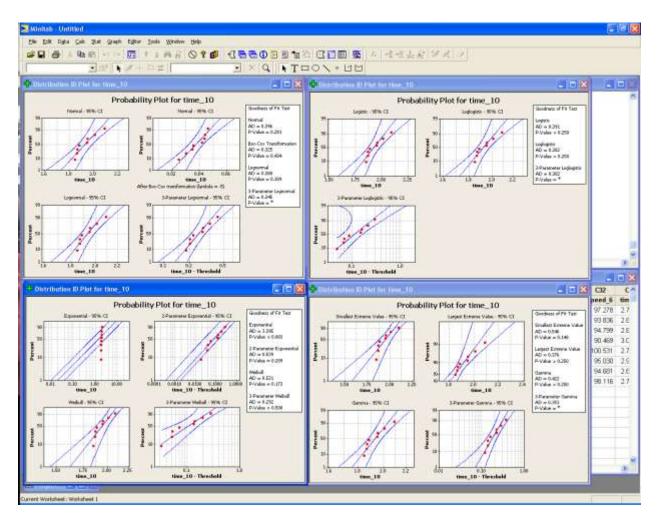


Lognormal [but questionable]

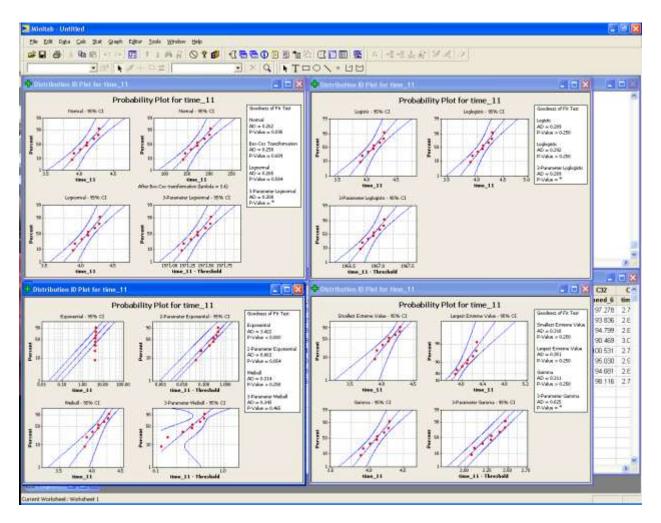
Section 10 (t5)



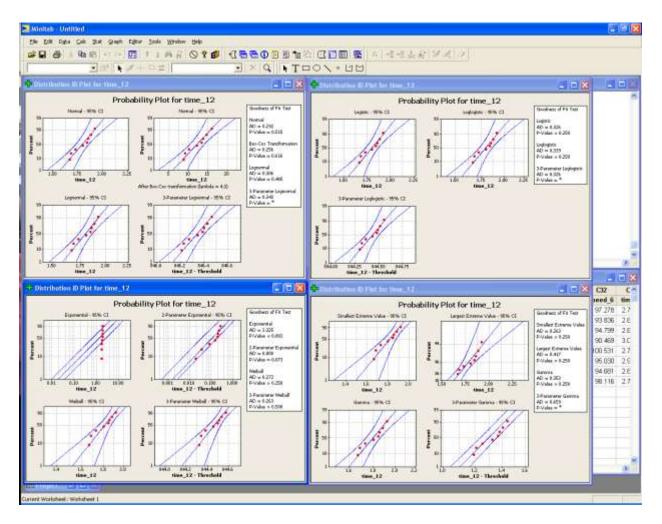
Section 11 (s6)



Section 12 (t6)

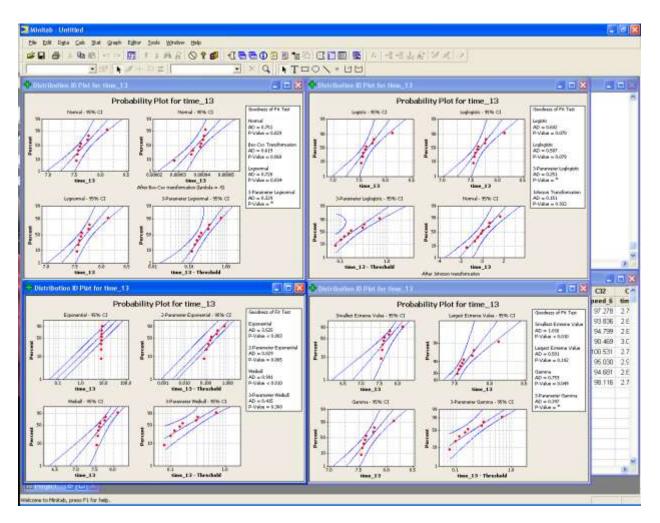


Section 13 (s7)



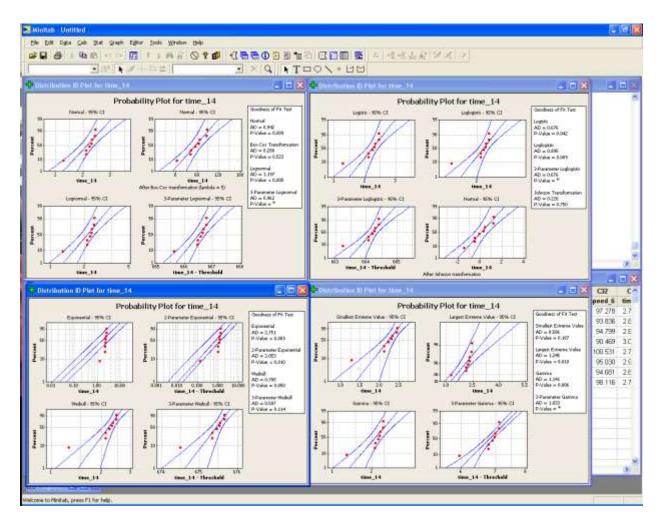
weibull

Section 14 (t7)



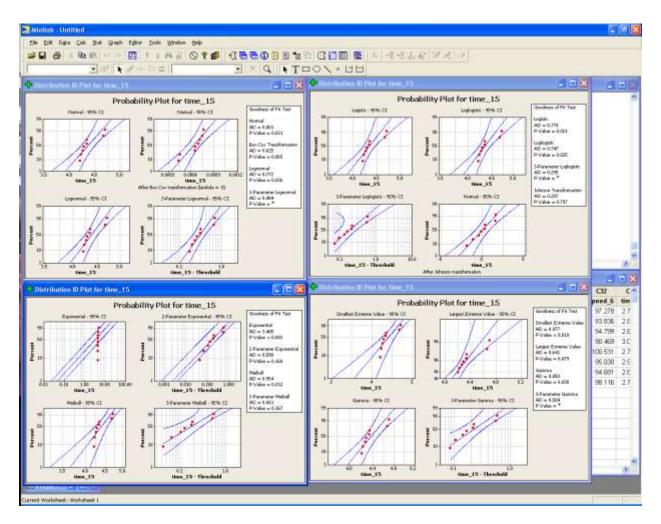
Lognormal [questionable]

Section 15 (s8)

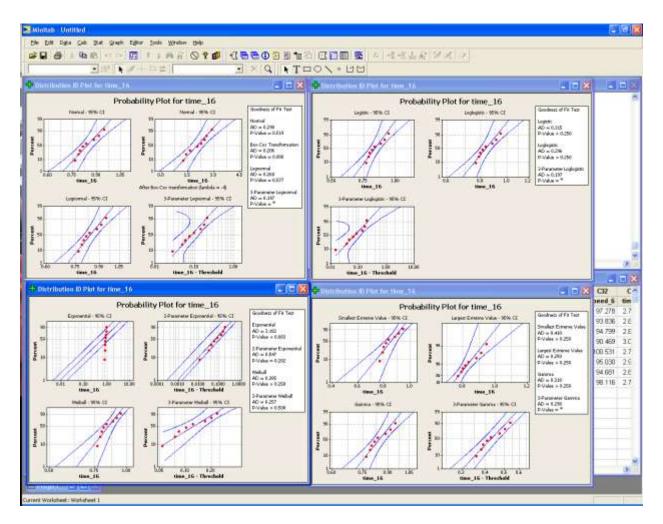


Weibull [borderline]

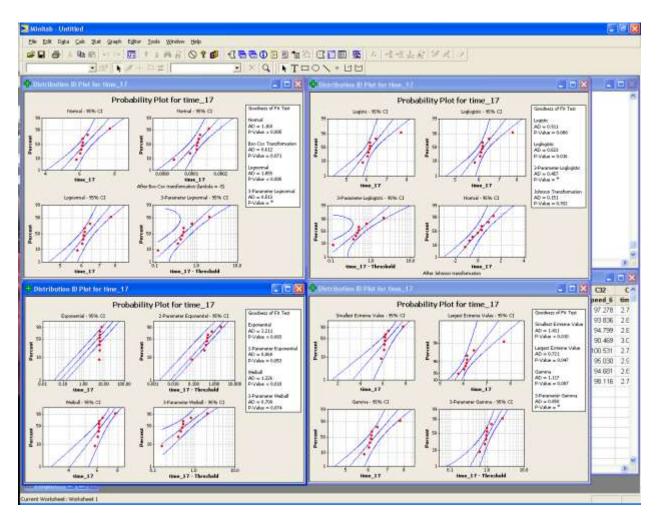
Section 16 (t8)



Section 17 (s9)

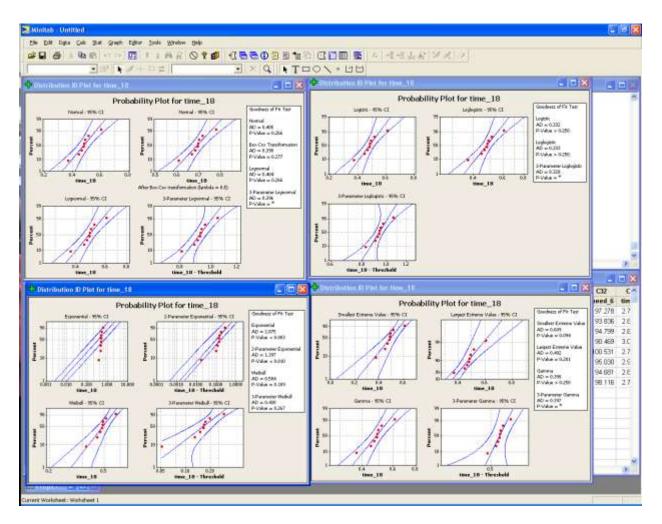


Section 18 (t9)

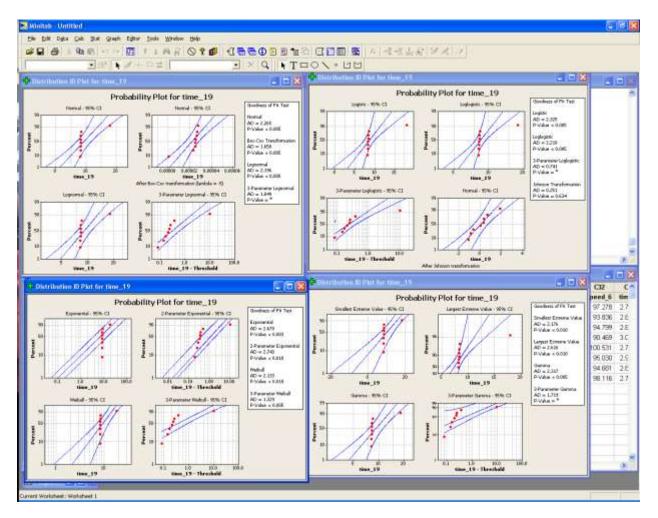


Weibull [questionable]

Section 19 (s10)

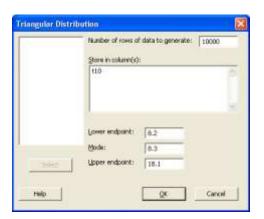


Section 20 (t10)

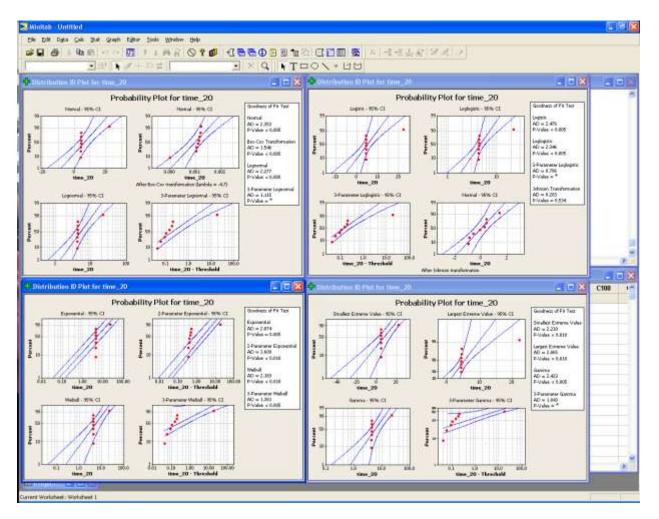


Lognormal [questionable]

I used a triangular distribution



Section 21 (s11)



Weibull [questionable]

I actually used Triangular distribution

Now that we have established the distributions for the time in each section of the track, we can now simulate these in order to simulate the time to complete one lap. We shall perform this simulation in Minitab (Excel also works fine) using 10,000 iterations.

In Minitab click on Calc-Random Data and the select the distribution relevant to the variable of interest, in this first case it is the lognormal for the time to traverse the first straight from the start line.

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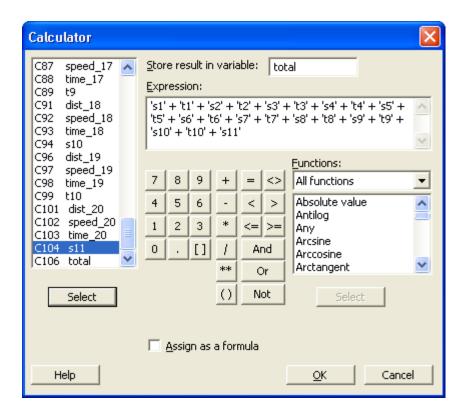
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	Scale: 0.01081
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This is repeated for each section of the track.

We can now add up all the distributions to give us the total lap time distribution.

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Lets now look at the descriptive statistics of the total lap time

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	CB15 4476 CB3 Ume_18 0.399662 0.491394 0.514238 0.481553 0.486730 0.446410 0.404821	C94 s10 0.420832 0.454419 0.527802 0.49646 0.477196 0.496514 0.491006 0.496543 0.4565432 0.4565432 0.456750 0.425716 0.4807243 0.419086		dist_19 0.231347 0.235042 0.235042 0.234023 0.233145 0.234711 0.232373 0.235377	speed_19 101.318 101.852 103.237 99.251 101.981 101.464 101.640	time_19 8.2203 8.3361 8.1607 8.4556 8.2655 8.2447 8.3254	rt0 11.0289 11.6262 15.2212 11.9769 9.4159 11.6556 12.5725 9.3550 14.53647 12.1163 17.5900 15.9202 8.9739	C100	diet_20 0 161266 0 169660 0 169816 0 161720 0 163962 0 163962 0 150134	speed_29 135.528 135.435 137.536 134.142 135.747 136.431 135.980	time_20 4.2042 4.2439 4.1832 4.3401 4.2290 4.3082 4.1995	e11 4.30318 4.26208 4.18536 4.27021 4.22903 4.29458 4.29458 4.29468 4.14963 4.14963 4.36215 4.37140 4.31294 4.30149 4.30260 4.38159	CNS	total 96 144 94 394 99 770 97 583 93 775 96 094 91 737 99 092 98 771 96 092 98 771 96 507 99 507 93 3076	C387	C168	C109	C110		
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Display Descriptiv	e Statistics 🛛 🛛 🔀
C87 speed_17 C88 time_17 C89 t9 C91 dist_18 C92 speed_18	Variables:
C93 time_18 C94 s10 C96 dist_19 C97 speed_19 C98 time_19 C99 t10 C101 dist_20 C102 speed_20 C103 time_20 C104 s11 C106 total	By variables (optional):
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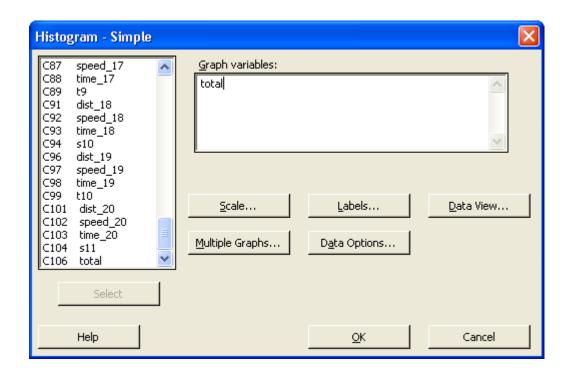
Descriptive Statistics: total

Variable	Ν	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3
total	10000	0	96.329	0.0256	2.564	88.684	94.365	96.035	98.121
Variable	Maximu	m							
total	104.49	2							

Let us look at the histogram

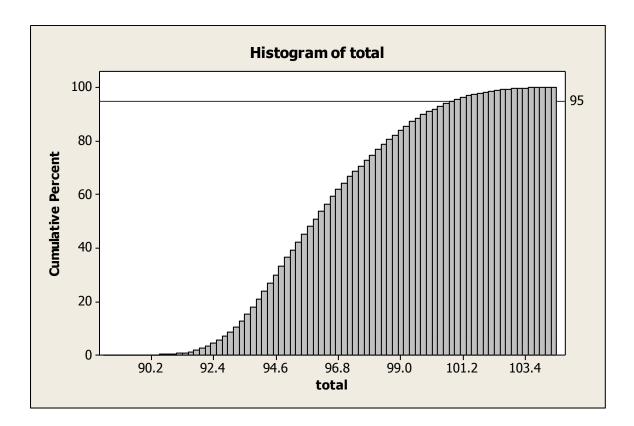
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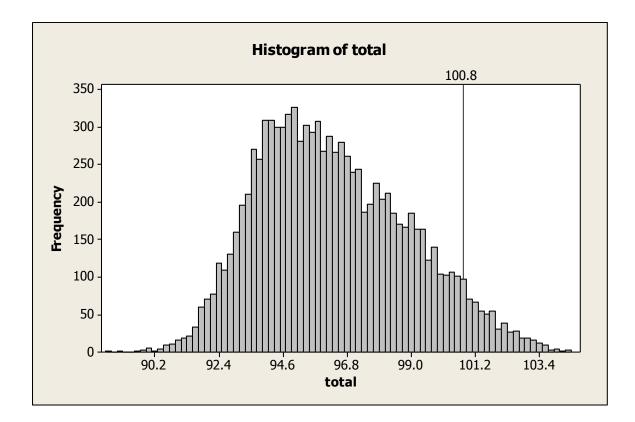


Note that you can change the scale on the axes, titles on the axes, the title of the diagram, the color of the bars, the lines, you can add gridlines etc etc to whatever you desire

Alternately we could have drawn a regular histogram to summarize our data

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Some questions to consider

What is the probability we can get 102 seconds lap time from this vehicle/ driver ? What would be range of lap times over which we can expect to see ? [confidence interval] If it was claimed this car can runs an average lap time of 105 seconds, is this claim credible? How would you test that the times can be improved by hiring a more aggressive driver ?

Conclusion:

So using the 95th percentile we can say this race driver can traverse one lap in 100.8 seconds. So it is now up to your race team principal or race engineer or whoever has the final say on technical matters to make the call as to whether this race car is performing as designed. You may also want to go back to each individual section and come up a strategy for it. Then see where improvements can be made and re-run the analysis and see what you new anticipated performance will be.