VUT Equation Calculations for General Distributions

Inputs				
Interarrival Time		Processing Time		No. of Servers
Mean (a)	Std. Dev. (σ_a)	Mean (p)	Std. Dev. (σ_p)	(m)
30.0000	30.0000	24.9000	17.6070	1

Outputs				
Coefficient of Variability (Relative Variability)	of Arrivals		1.0000	
	of Service		0.7071	
Input Rate			0.0333	
Aggregate Service Rate			0.0402	
Long-term Avg. Utilization			**0.8300**	
Variability Effect*			0.7500	
Utilization Effect*			4.8824	
Avg. processing time			24.9000	
Avg. Queue Time			**91.1779**	
Average Flow Time			116.0779	
Using Little's Law				
Average Queue Length			**3.0393**	
Average in-process Inv.			0.8300	
Total Average Inventory			3.8693	

This Preview excludes the variable outputs in this column

*(see VUT equation)

To use: enter system information in the yellow boxes in row 7.
System average expected values are calculated and displayed in green boxes.