

Simulazione di Sistemi

Corso di Laurea in Informatica Magistrale

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Seconda Validazione

Parametri Utilizzati

- ▶ $\lambda = 1.25, 1.0$
- ▶ m1 values = 0.4, 0.3, 0.25, 0.20
- ▶ m2 values = 0.4, 0.3, 0.25, 0.20
- ▶ p ranges = (8, 10)
- ▶ v ranges = (20, 22)
- ▶ N values = 3

Seconda Validazione

Informazioni Aggiuntive

- ▶ Utenti medi nel sistema: 2.3665740241866597
- ▶ Utenti medi nel sistema per:
 - ▶ $\lambda=1.0$: 1.5811872497600383
 - ▶ $\lambda=1.25$: 3.1519607986132803
 - ▶ Q1: 1.4099733525585452
 - ▶ Q2: 0.9566006716281144
 - ▶ Q1, $\lambda=1.0$: 0.6606975371372756
 - ▶ Q2, $\lambda=1.0$: 0.9204897126227626
 - ▶ Q1, $\lambda=1.25$: 2.1592491679798145
 - ▶ Q2, $\lambda=1.25$: 0.992711630633466

Seconda Validazione

Little's Law Verification - 95% Confidence

L_theoretical_95	L_observed	L_theoretical_low_95	L_theoretical_high_95	Verification
21.514	21.072	20.439	22.59	X
2.394	2.59	2.274	2.514	
1.716	2.062	1.63	1.802	
1.34	1.802	1.273	1.407	
2.354	2.536	2.236	2.472	
1.208	1.595	1.148	1.269	
0.968	1.434	0.919	1.016	
0.805	1.34	0.764	0.845	
1.618	1.935	1.538	1.699	
0.949	1.404	0.901	0.996	
0.777	1.273	0.738	0.816	
0.653	1.218	0.62	0.686	
1.24	1.67	1.178	1.302	
0.774	1.276	0.735	0.813	
0.644	1.194	0.612	0.676	
0.542	1.121	0.515	0.569	
1.493	1.816	1.419	1.568	
1.016	1.477	0.965	1.067	
0.873	1.4	0.83	0.917	
0.765	1.36	0.727	0.803	
0.984	1.429	0.935	1.034	
0.718	1.238	0.682	0.754	
0.626	1.189	0.595	0.658	
0.551	1.165	0.524	0.579	
0.837	1.322	0.796	0.879	
0.62	1.178	0.589	0.651	
0.541	1.114	0.514	0.568	
0.474	1.097	0.45	0.498	
0.728	1.263	0.692	0.765	
0.543	1.142	0.515	0.57	
0.472	1.076	0.448	0.495	
0.41	1.063	0.389	0.43	

Seconda Validazione

Little's Law Verification - 90% Confidence

L_theoretical_90	L_observed	L_theoretical_low_90	L_theoretical_high_90	Verification
21.514	21.072	19.363	23.666	X
2.394	2.59	2.155	2.634	X
1.716	2.062	1.544	1.887	
1.34	1.802	1.206	1.474	
2.354	2.536	2.119	2.589	X
1.208	1.595	1.088	1.329	
0.968	1.434	0.871	1.064	
0.805	1.34	0.724	0.885	
1.618	1.935	1.457	1.78	
0.949	1.404	0.854	1.043	
0.777	1.273	0.699	0.855	
0.653	1.218	0.588	0.718	
1.24	1.67	1.116	1.364	
0.774	1.276	0.697	0.851	
0.644	1.194	0.579	0.708	
0.542	1.121	0.488	0.596	
1.493	1.816	1.344	1.643	
1.016	1.477	0.915	1.118	
0.873	1.4	0.786	0.961	
0.765	1.36	0.689	0.842	
0.984	1.429	0.886	1.083	
0.718	1.238	0.646	0.79	
0.626	1.189	0.564	0.689	
0.551	1.165	0.496	0.606	
0.837	1.322	0.754	0.921	
0.62	1.178	0.558	0.682	
0.541	1.114	0.487	0.595	
0.474	1.097	0.427	0.521	
0.728	1.263	0.656	0.801	
0.543	1.142	0.488	0.597	
0.472	1.076	0.425	0.519	
0.41	1.063	0.369	0.451	

Seconda Validazione

Little's Law Verification - 85% Confidence

L_theoretical_85	L_observed	L_theoretical_low_85	L_theoretical_high_85	Verification
21.514	21.072	18.287	24.741	X
2.394	2.59	2.035	2.753	X
1.716	2.062	1.458	1.973	
1.34	1.802	1.139	1.541	
2.354	2.536	2.001	2.707	X
1.208	1.595	1.027	1.39	
0.968	1.434	0.822	1.113	
0.805	1.34	0.684	0.925	
1.618	1.935	1.376	1.861	
0.949	1.404	0.806	1.091	
0.777	1.273	0.66	0.893	
0.653	1.218	0.555	0.751	
1.24	1.67	1.054	1.426	
0.774	1.276	0.658	0.89	
0.644	1.194	0.547	0.74	
0.542	1.121	0.461	0.623	
1.493	1.816	1.269	1.717	
1.016	1.477	0.864	1.169	
0.873	1.4	0.742	1.004	
0.765	1.36	0.65	0.88	
0.984	1.429	0.837	1.132	
0.718	1.238	0.61	0.825	
0.626	1.189	0.532	0.72	
0.551	1.165	0.469	0.634	
0.837	1.322	0.712	0.963	
0.62	1.178	0.527	0.713	
0.541	1.114	0.46	0.622	
0.474	1.097	0.403	0.545	
0.728	1.263	0.619	0.838	
0.543	1.142	0.461	0.624	
0.472	1.076	0.401	0.543	
0.41	1.063	0.348	0.471	

Seconda Validazione

Little's Law Verification - 80% Confidence

L_theoretical_80	L_observed	L_theoretical_low_80	L_theoretical_high_80	Verification
21.514	21.072	17.211	25.817	X
2.394	2.59	1.915	2.873	X
1.716	2.062	1.373	2.059	
1.34	1.802	1.072	1.608	
2.354	2.536	1.883	2.825	X
1.208	1.595	0.967	1.45	
0.968	1.434	0.774	1.161	
0.805	1.34	0.644	0.966	
1.618	1.935	1.295	1.942	X
0.949	1.404	0.759	1.138	
0.777	1.273	0.622	0.932	
0.653	1.218	0.523	0.784	
1.24	1.67	0.992	1.488	
0.774	1.276	0.619	0.929	
0.644	1.194	0.515	0.772	
0.542	1.121	0.434	0.651	
1.493	1.816	1.195	1.792	
1.016	1.477	0.813	1.219	
0.873	1.4	0.699	1.048	
0.765	1.36	0.612	0.918	
0.984	1.429	0.788	1.181	
0.718	1.238	0.574	0.861	
0.626	1.189	0.501	0.751	
0.551	1.165	0.441	0.662	
0.837	1.322	0.67	1.005	
0.62	1.178	0.496	0.744	
0.541	1.114	0.433	0.649	
0.474	1.097	0.379	0.569	
0.728	1.263	0.583	0.874	
0.543	1.142	0.434	0.651	
0.472	1.076	0.377	0.566	
0.41	1.063	0.328	0.492	