Expected number of jobs in the system:

For L=1,m=2,mu=3,lamda2=4,k=4

|  |  |  |
| --- | --- | --- |
| rho | E[N] (experimental) | E[N] (theoretical) |
| 0.1 | 0.200142 | 0.69876 |
| 0.2 | 0.400311 | 0.850447 |
| 0.3 | 0.600479 | 1.02262 |
| 0.4 | 0.800646 | 1.2118 |
| 0.5 | 1.00081 | 1.41085 |
| 0.6 | 1.20098 | 1.61199 |
| 0.7 | 1.40114 | 1.8083 |
| 0.8 | 1.6013 | 1.99459 |
| 0.9 | 1.80147 | 2.16756 |
| 1 | 2.00163 | 2.32558 |

Expected waiting time:

For L=1,mu=3,m=2,lamda2=4,k=4

|  |  |  |
| --- | --- | --- |
| rho | E[t] (experimental) | E[t] (theortical) |
| 0.1 | 0.0835608 | 0.3366 |
| 0.2 | 0.0835666 | 0.3458 |
| 0.3 | 0.0835695 | 0.3595 |
| 0.4 | 0.0835695 | 0.37603 |
| 0.5 | 0.0835701 | 0.39393 |
| 0.6 | 0.0835705 | 0.412092 |
| 0.7 | 0.0835708 | 0.42974 |
| 0.8 | 0.083571 | 0.446435 |
| 0.9 | 0.0835712 | 0.461949 |
| 1 | 0.0835713 | 0.47619 |

User jobs blocking probability for L=1,m=2,mu=3,k=4,lamda2=4

|  |  |  |
| --- | --- | --- |
| rho | User Blocking Probability (experimental) | User Blocking probability(theoretical) |
| 0.1 | 0.5 | 0.630114 |
| 0.2 | 0.5 | 0.683864 |
| 0.3 | 0.5 | 0.732587 |
| 0.4 | 0.5 | 0.776012 |
| 0.5 | 0.5 | 0.813953 |
| 0.6 | 0.5 | 0.84645 |
| 0.7 | 0.5 | 0.873794 |
| 0.8 | 0.5 | 0.896422 |
| 0.9 | 0.5 | 0.915078 |
| 1 | 0.5 | 0.930233 |

Admin jobs blocking probability for L=1,m=2,mu=3,k=4,lamda2=4:

|  |  |  |
| --- | --- | --- |
| rho | admin jobs blocking probablity(experimental) | admin jobs blocking probability (theoritical) |
| 0.1 | 0 | 0.0005672 |
| 0.2 | 0 | 0.0043838 |
| 0.3 | 0 | 0.013959 |
| 0.4 | 0 | 0.0305818 |
| 0.5 | 0 | 0.0542636 |
| 0.6 | 0 | 0.0840226 |
| 0.7 | 0 | 0.118323 |
| 0.8 | 0 | 0.155486 |
| 0.9 | 0 | 0.193978 |
| 1 | 0 | 0.232517 |

Expected number of jobs in the system:

For L=3,m=2,mu=3,lamda2=4,k=4

|  |  |  |
| --- | --- | --- |
| rho | E[N] (experimental) | E[N] (theoretical) |
| 0.1 | 0.252237 | 1.47837 |
| 0.2 | 0.504589 | 1.67046 |
| 0.3 | 0.756848 | 1.85417 |
| 0.4 | 1.0091 | 2.02677 |
| 0.5 | 1.26136 | 2.18656 |
| 0.6 | 1.51361 | 2.33285 |
| 0.7 | 1.76585 | 2.46565 |
| 0.8 | 2.0181 | 2.58553 |
| 0.9 | 2.27034 | 2.69333 |
| 1 | 2.52258 | 2.79009 |

Expected waiting time:

For L=3,mu=3,m=2,lamda2=4,k=4

|  |  |  |
| --- | --- | --- |
| rho | E[t] (experimental) | E[t] (theoretical) |
| 0.1 | 0.210181 | 0.675627 |
| 0.2 | 0.21016 | 0.658838 |
| 0.3 | 0.210151 | 0.67083 |
| 0.4 | 0.210147 | 0.65963 |
| 0.5 | 0.210144 | 0.616882 |
| 0.6 | 0.210143 | 0.67025 |
| 0.7 | 0.210141 | 0.686339 |
| 0.8 | 0.21014 | 0.649389 |
| 0.9 | 0.21014 | 0.651527 |
| 1 | 0.210139 | 0.661265 |

User jobs blocking probability for L=3,m=2,mu=3,k=4,lamda2=4

Admin jobs blocking probability for L=3,m=2,mu=3,k=4,lamda2=4: