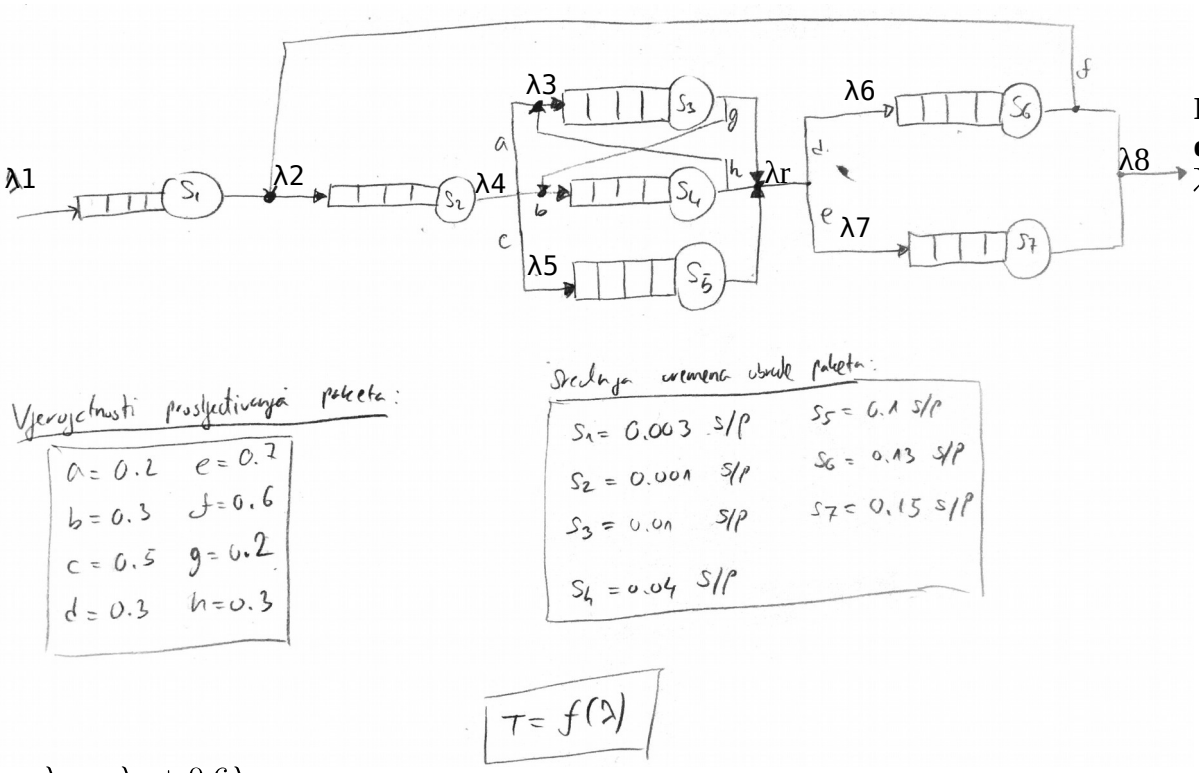


Inteziteti dolazaka: λ_1

$\lambda_2 = \lambda_1 + 0.6\lambda_6$
$\lambda_3 = 0.2\lambda_3 + 0.3\lambda_4$
$\lambda_4 = 0.3\lambda_2 + 0.2\lambda_3$
$\lambda_5 = 0.5\lambda_2$
$\lambda_6 = 0.3\lambda_r$
$\lambda_7 = 0.7\lambda$
$\lambda_8 = 0.4\lambda_6 + \lambda_7$

$\lambda_2 = 1.21952 \cdot \lambda$
$\lambda_3 = 0.3762 \cdot \lambda$
$\lambda_4 = 0.44112 \cdot \lambda$
$\lambda_5 = 0.60982 \cdot \lambda$
$\lambda_6 = 0.3659 \cdot \lambda$
$\lambda_7 = 0.8536 \cdot \lambda$

Iskoristivnost poslužitelja:

$\rho_i = \lambda_i \cdot S_i$

$\rho_1 = 0.003 \cdot \lambda$

$\rho_2 = 0.0012 \cdot \lambda$

$\rho_3 = 0.0038 \cdot \lambda$

$\rho_4 = 0.0610 \cdot \lambda$

$\rho_5 = 0.0476 \cdot \lambda$

$\rho_6 = 0.0476 \cdot \lambda$

$\rho_7 = 0.1280 \cdot \lambda$

Prosječan broj zahtjeva na poslužitelju:

$$N_i = \frac{\rho_i}{1-\rho_i}$$

$$N_1 = \frac{0.003 \cdot \lambda}{1-0.003 \cdot \lambda}$$

$$N_2 = \frac{0.0012 \cdot \lambda}{1-0.0012 \cdot \lambda}$$

$$N_3 = \frac{0.0038 \cdot \lambda}{1-0.0038 \cdot \lambda}$$

$$N_4 = \frac{0.0176 \cdot \lambda}{1-0.0176 \cdot \lambda}$$

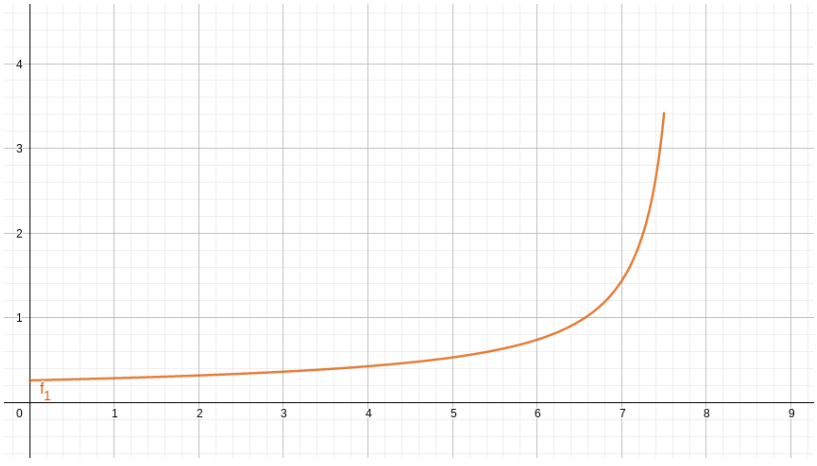
$$N_5 = \frac{0.061 \cdot \lambda}{1-0.061 \cdot \lambda}$$

$$N_6 = \frac{0.0476 \cdot \lambda}{1-0.0476 \cdot \lambda}$$

$$N_7 = \frac{0.128 \cdot \lambda}{1-0.128 \cdot \lambda}$$

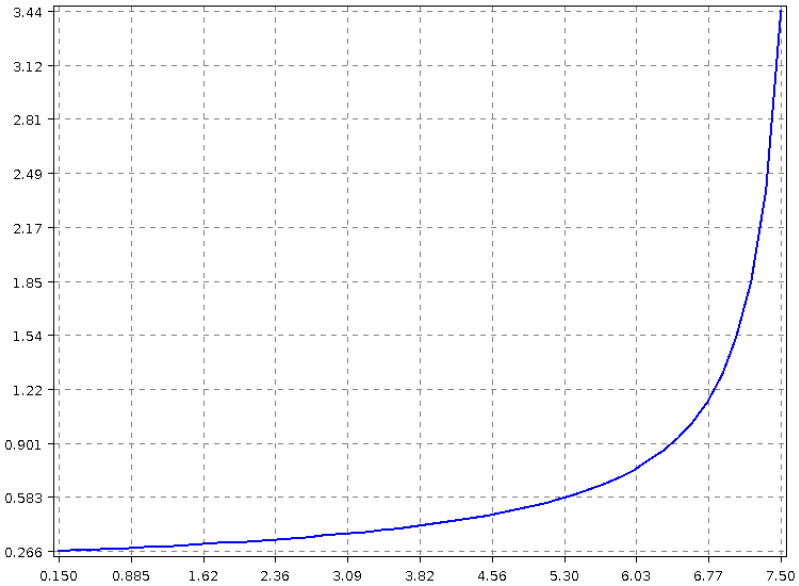
Prosječno vrijeme trajanja zahtjeva:

$$T = \frac{N_1 + N_2 + N_3 + N_4 + N_5 + N_6 + N_7}{\lambda}$$



L	T
1	0.2877
2	0.3204
3	0.3646
4	0.4288
5	0.5332
6	0.7424
7	1.4369

Programsko rješenje




```
Lambda = 0.150, T = 0.266
Lambda = 0.300, T = 0.269
Lambda = 0.450, T = 0.273
Lambda = 0.600, T = 0.277
Lambda = 0.750, T = 0.281
Lambda = 0.900, T = 0.285
Lambda = 1.050, T = 0.289
Lambda = 1.200, T = 0.294
Lambda = 1.350, T = 0.298
Lambda = 1.500, T = 0.303
Lambda = 1.650, T = 0.308
Lambda = 1.800, T = 0.313
Lambda = 1.950, T = 0.319
Lambda = 2.100, T = 0.324
Lambda = 2.250, T = 0.330
Lambda = 2.400, T = 0.336
Lambda = 2.550, T = 0.343
Lambda = 2.700, T = 0.350
Lambda = 2.850, T = 0.357
Lambda = 3.000, T = 0.365
Lambda = 3.150, T = 0.373
Lambda = 3.300, T = 0.381
Lambda = 3.450, T = 0.390
Lambda = 3.600, T = 0.400
Lambda = 3.750, T = 0.410
Lambda = 3.900, T = 0.421
Lambda = 4.050, T = 0.433
Lambda = 4.200, T = 0.446
Lambda = 4.350, T = 0.459
Lambda = 4.500, T = 0.474
Lambda = 4.650, T = 0.490
Lambda = 4.800, T = 0.507
Lambda = 4.950, T = 0.527
Lambda = 5.100, T = 0.548
Lambda = 5.250, T = 0.571
Lambda = 5.400, T = 0.597
Lambda = 5.550, T = 0.627
Lambda = 5.700, T = 0.660
Lambda = 5.850, T = 0.699
Lambda = 6.000, T = 0.743
Lambda = 6.150, T = 0.795
Lambda = 6.300, T = 0.857
Lambda = 6.450, T = 0.932
Lambda = 6.600, T = 1.026
Lambda = 6.750, T = 1.145
Lambda = 6.900, T = 1.303
Lambda = 7.050, T = 1.523
Lambda = 7.200, T = 1.849
Lambda = 7.350, T = 2.386
Lambda = 7.500, T = 3.440
```