GENERATE (DUNIFORM(1,6,9))

QUEUE 1

mech STORAGE 4

ENTER mech

ADVANCE (NORMAL(1,7,1))

LEAVE mech

DEPART 1

TERMINATE

GENERATE 480

TERMINATE 1

START 1

GPSS World Simulation Report - Untitled Model 1.2.1

Tuesday, September 27, 2016 23:02:13

START TIME END TIME BLOCKS FACILITIES STORAGES

0.000 480.000 9 0 1

NAME VALUE

MECH 10000.000

LABEL LOC BLOCK TYPE ENTRY COUNT CURRENT COUNT RETRY

1 GENERATE 63 0 0

2 QUEUE 63 0 0

3 ENTER 63 0 0

4 ADVANCE 63 1 0

5 LEAVE 62 0 0

6 DEPART 62 0 0

7 TERMINATE 62 0 0

8 GENERATE 1 0 0

9 TERMINATE 1 0 0

QUEUE MAX CONT. ENTRY ENTRY(0) AVE.CONT. AVE.TIME AVE.(-0) RETRY

1 2 1 63 0 0.914 6.963 6.963 0

STORAGE CAP. REM. MIN. MAX. ENTRIES AVL. AVE.C. UTIL. RETRY DELAY

MECH 4 3 0 2 63 1 0.914 0.228 0 0

FEC XN PRI BDT ASSEM CURRENT NEXT PARAMETER VALUE

65 0 483.000 65 0 1

64 0 486.064 64 4 5

66 0 960.000 66 0 8

Равноменое 3-12

Нормальное 7 ско 2

GPSS World Simulation Report - Untitled Model 1.8.1

Friday, September 30, 2016 13:51:10

START TIME END TIME BLOCKS FACILITIES STORAGES

0.000 480.000 9 0 1

NAME VALUE

MECH 10000.000

LABEL LOC BLOCK TYPE ENTRY COUNT CURRENT COUNT RETRY

1 GENERATE 63 0 0

2 QUEUE 63 0 0

3 ENTER 63 0 0

4 ADVANCE 63 1 0

5 LEAVE 62 0 0

6 DEPART 62 0 0

7 TERMINATE 62 0 0

8 GENERATE 1 0 0

9 TERMINATE 1 0 0

QUEUE MAX CONT. ENTRY ENTRY(0) AVE.CONT. AVE.TIME AVE.(-0) RETRY

1 3 1 63 0 0.915 6.974 6.974 0

STORAGE CAP. REM. MIN. MAX. ENTRIES AVL. AVE.C. UTIL. RETRY DELAY

MECH 4 3 0 3 63 1 0.915 0.229 0 0

FEC XN PRI BDT ASSEM CURRENT NEXT PARAMETER VALUE

65 0 482.000 65 0 1

64 0 489.128 64 4 5

66 0 960.000 66 0 8

Больший разброс значений может незначительно ухудшить показатели системы

Проверим на больше кол-ве смен:

10 смен

1)

GPSS World Simulation Report - Untitled Model 1.9.1

Friday, September 30, 2016 13:55:15

START TIME END TIME BLOCKS FACILITIES STORAGES

0.000 4800.000 9 0 1

NAME VALUE

MECH 10000.000

LABEL LOC BLOCK TYPE ENTRY COUNT CURRENT COUNT RETRY

1 GENERATE 640 0 0

2 QUEUE 640 0 0

3 ENTER 640 0 0

4 ADVANCE 640 0 0

5 LEAVE 640 0 0

6 DEPART 640 0 0

7 TERMINATE 640 0 0

8 GENERATE 10 0 0

9 TERMINATE 10 0 0

QUEUE MAX CONT. ENTRY ENTRY(0) AVE.CONT. AVE.TIME AVE.(-0) RETRY

1 2 0 640 0 0.931 6.981 6.981 0

STORAGE CAP. REM. MIN. MAX. ENTRIES AVL. AVE.C. UTIL. RETRY DELAY

MECH 4 4 0 2 640 1 0.931 0.233 0 0

FEC XN PRI BDT ASSEM CURRENT NEXT PARAMETER VALUE

651 0 4802.000 651 0 1

652 0 5280.000 652 0 8

2)

GPSS World Simulation Report - Untitled Model 1.10.1

Friday, September 30, 2016 13:55:48

START TIME END TIME BLOCKS FACILITIES STORAGES

0.000 4800.000 9 0 1

NAME VALUE

MECH 10000.000

LABEL LOC BLOCK TYPE ENTRY COUNT CURRENT COUNT RETRY

1 GENERATE 635 0 0

2 QUEUE 635 0 0

3 ENTER 635 0 0

4 ADVANCE 635 2 0

5 LEAVE 633 0 0

6 DEPART 633 0 0

7 TERMINATE 633 0 0

8 GENERATE 10 0 0

9 TERMINATE 10 0 0

QUEUE MAX CONT. ENTRY ENTRY(0) AVE.CONT. AVE.TIME AVE.(-0) RETRY

1 3 2 635 0 0.928 7.012 7.012 0

STORAGE CAP. REM. MIN. MAX. ENTRIES AVL. AVE.C. UTIL. RETRY DELAY

MECH 4 2 0 3 635 1 0.928 0.232 0 0

FEC XN PRI BDT ASSEM CURRENT NEXT PARAMETER VALUE

645 0 4800.368 645 4 5

644 0 4800.551 644 4 5

646 0 4801.000 646 0 1

647 0 5280.000 647 0 8

За 10 смен из-за разброса значений мы потеряли 7 деталей

SKLAD STORAGE 220

POGR STORAGE 5

RAZG STORAGE 3

CAR STORAGE 8

GENERATE (exponential(1,0,(60/8)))

ASSIGN 1,(DUNIFORM(2,4,10))

ASSIGN 2,P1

ENTER RAZG

M\_RAZG ADVANCE (DUNIFORM(3,4,12))

ENTER SKLAD

LOOP 1,M\_RAZG

LEAVE RAZG

TRANSFER .400,,SKLAD\_CAR

MY\_CAR QUEUE MY\_DONE

ADVANCE 900,600

ENTER POGR

DEPART MY\_DONE

ADVANCE 8,4

LEAVE SKLAD,P2

LEAVE POGR

TRANSFER ,ENDED

SKLAD\_CAR ENTER CAR

QUEUE SKLAD\_CAR\_DONE

ENTER POGR

ADVANCE 8,4

LEAVE SKLAD,P2

LEAVE POGR

ADVANCE 180,120

LEAVE CAR

ENDED TERMINATE

GENERATE 480

TERMINATE 1

START 365

GPSS World Simulation Report - Untitled Model 1.24.1

Friday, September 30, 2016 15:42:41

START TIME END TIME BLOCKS FACILITIES STORAGES

0.000 1440.000 28 0 4

NAME VALUE

CAR 10003.000

ENDED 26.000

MY\_CAR 10.000

MY\_DONE 10005.000

M\_RAZG 5.000

POGR 10001.000

RAZG 10002.000

SKLAD 10000.000

SKLAD\_CAR 18.000

SKLAD\_CAR\_DONE 10004.000

LABEL LOC BLOCK TYPE ENTRY COUNT CURRENT COUNT RETRY

1 GENERATE 164 0 0

2 ASSIGN 164 0 0

3 ASSIGN 164 83 0

4 ENTER 81 0 0

M\_RAZG 5 ADVANCE 527 3 0

6 ENTER 524 0 0

7 LOOP 524 0 0

8 LEAVE 78 0 0

9 TRANSFER 78 0 0

MY\_CAR 10 QUEUE 48 0 0

11 ADVANCE 48 30 0

12 ENTER 18 0 0

13 DEPART 18 0 0

14 ADVANCE 18 0 0

15 LEAVE 18 0 0

16 LEAVE 18 0 0

17 TRANSFER 18 0 0

SKLAD\_CAR 18 ENTER 30 0 0

19 QUEUE 30 0 0

20 ENTER 30 0 0

21 ADVANCE 30 0 0

22 LEAVE 30 0 0

23 LEAVE 30 0 0

24 ADVANCE 30 2 0

25 LEAVE 28 0 0

ENDED 26 TERMINATE 46 0 0

27 GENERATE 1 0 0

28 TERMINATE 1 0 0

QUEUE MAX CONT. ENTRY ENTRY(0) AVE.CONT. AVE.TIME AVE.(-0) RETRY

SKLAD\_CAR\_DONE 30 30 30 0 15.100 724.801 724.801 0

MY\_DONE 31 30 48 0 18.046 541.385 541.385 0

STORAGE CAP. REM. MIN. MAX. ENTRIES AVL. AVE.C. UTIL. RETRY DELAY

SKLAD 220 3 0 220 524 1 140.559 0.639 0 0

POGR 5 5 0 2 48 1 0.264 0.053 0 0

RAZG 3 0 0 3 81 1 2.994 0.998 0 83

CAR 8 6 0 8 30 1 3.531 0.441 0

Размер склада 220=>510

Погрузочные места 5=>4

Разгрузочный места 3=>9

Разгрузочные машины 8=>12

SKLAD STORAGE 510

POGR STORAGE 4

RAZG STORAGE 9

CAR STORAGE 12

GPSS World Simulation Report - Untitled Model 1.41.1

Friday, September 30, 2016 15:48:21

START TIME END TIME BLOCKS FACILITIES STORAGES

0.000 1440.000 28 0 4

NAME VALUE

CAR 10003.000

ENDED 26.000

MY\_CAR 10.000

MY\_DONE 10005.000

M\_RAZG 5.000

POGR 10001.000

RAZG 10002.000

SKLAD 10000.000

SKLAD\_CAR 18.000

SKLAD\_CAR\_DONE 10004.000

LABEL LOC BLOCK TYPE ENTRY COUNT CURRENT COUNT RETRY

1 GENERATE 178 0 0

2 ASSIGN 178 0 0

3 ASSIGN 178 0 0

4 ENTER 178 0 0

M\_RAZG 5 ADVANCE 1188 9 0

6 ENTER 1179 0 0

7 LOOP 1179 0 0

8 LEAVE 169 0 0

9 TRANSFER 169 0 0

MY\_CAR 10 QUEUE 93 0 0

11 ADVANCE 93 67 0

12 ENTER 26 0 0

13 DEPART 26 0 0

14 ADVANCE 26 1 0

15 LEAVE 25 0 0

16 LEAVE 25 0 0

17 TRANSFER 25 0 0

SKLAD\_CAR 18 ENTER 76 0 0

19 QUEUE 76 0 0

20 ENTER 76 0 0

21 ADVANCE 76 2 0

22 LEAVE 74 0 0

23 LEAVE 74 0 0

24 ADVANCE 74 8 0

25 LEAVE 66 0 0

ENDED 26 TERMINATE 91 0 0

27 GENERATE 1 0 0

28 TERMINATE 1 0 0

QUEUE MAX CONT. ENTRY ENTRY(0) AVE.CONT. AVE.TIME AVE.(-0) RETRY

SKLAD\_CAR\_DONE 76 76 76 0 34.120 646.478 646.478 0

MY\_DONE 68 67 93 0 35.479 549.347 549.347 0

STORAGE CAP. REM. MIN. MAX. ENTRIES AVL. AVE.C. UTIL. RETRY DELAY

SKLAD 510 7 0 503 1179 1 266.631 0.523 0 0

POGR 4 1 0 4 102 1 0.573 0.143 0 0

RAZG 9 0 0 9 178 1 6.605 0.734 0 0

CAR 12 2 0 12 76 1 8.621 0.718 0 0