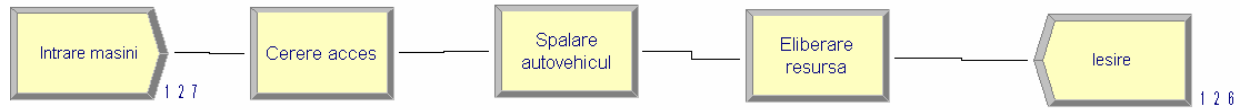


Activitatea 1.



Numărul de mașini care au trecut prin sistem, conform unei rulări a modelului, este egal cu 126, iar timpul mediu de așteptare este 0,17h (pentru a găsi această informație trebuie afișat raportul Queues după rularea modelului).

Fișierul Model

```
; Model statements for module: Create 1
5$ CREATE, 1,MinutesToBaseTime(0.0),Entity 1:MinutesToBaseTime(EXPO(5)):NEXT(6$);
6$ ASSIGN: Intrare masini.NumberOut=Intrare masini.NumberOut + 1:NEXT(0$);

; Model statements for module: Seize 1
0$ QUEUE, Sir_unic;
SEIZE, 2,Other: Linie_spalare,1:NEXT(10$);

10$ DELAY: 0.0,,VA:NEXT(2$);

; Model statements for module: Delay 1
2$ DELAY: MinutesToBaseTime(NORM( 15, 3)),Other:NEXT(3$);

; Model statements for module: Release 1
3$ RELEASE: Linie_spalare,1:NEXT(4$);

; Model statements for module: Dispose 1
4$ ASSIGN: Iesire.NumberOut=Iesire.NumberOut + 1;
11$ DISPOSE: Yes;
```

Fișierul Experiment

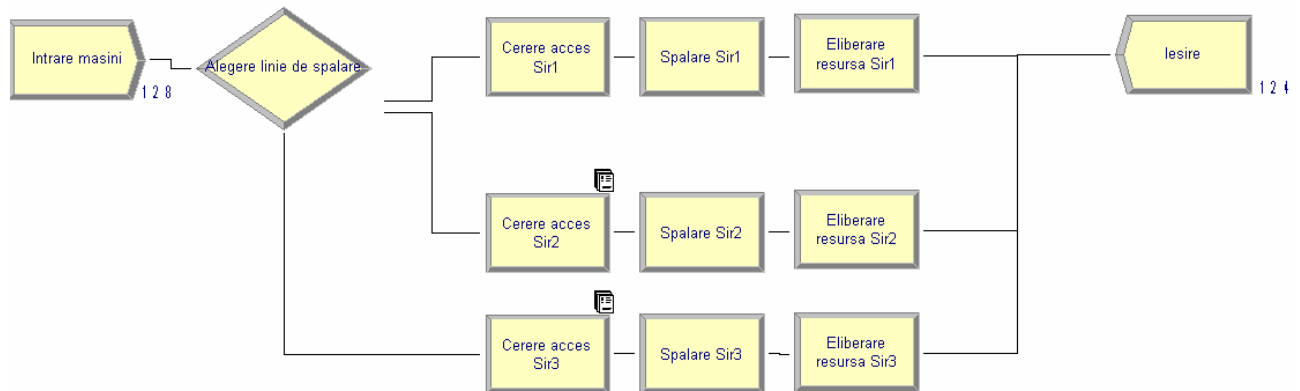
```
QUEUES: Sir_unic,FIFO,,AUTOSTATS(Yes,,);

RESOURCES:
    Linie_spalare,Capacity(3),,,COST(0.0,0.0,0.0),CATEGORY(Resources),,AUTOSTATS(Yes,,);

REPLICATE, 1,,HoursToBaseTime(12),Yes,Yes,,,,24,Hours,No,No,,,Yes;

ENTITIES: Entity 1,Picture.Report,0.0,0.0,0.0,0.0,0.0,0.0,AUTOSTATS(Yes,,);
```

Activitatea 2.



Deoarece mașinile nu pot trece la un alt șir odată ce s-au atașat unuia performanțele acestui sistem sunt ceva mai scăzute după cum arată numărul de mașini servite pe perioada unei zile (124) și timpul mediu de așteptare (0,21h, 0,23h și 0,27h).

Fișierul Model

```

; Model statements for module: Create 1
14$ CREATE, 1,MinutesToBaseTime(0.0),Entity 1:MinutesToBaseTime(EXPO(5)):NEXT(15$);
15$ ASSIGN: Intrare masini.NumberOut=Intrare masini.NumberOut + 1:NEXT(5$);

```

```

; Model statements for module: Decide 1
5$ BRANCH, 1:
    If,(NQ(Sir1).LT.NQ(Sir2)).AND.(NQ(Sir1).LT.NQ(Sir3)),0$,Yes:
    If,NQ(Sir2).LT.NQ(Sir3),6$,Yes:
    Else,10$,Yes;

```

```

; Model statements for module: Seize 3
10$ QUEUE, Sir3;
    SEIZE, 2,Other: Linie_spalare3,1:NEXT(21$);

```

```

21$ DELAY: 0.0,,VA:NEXT(12$);

```

```

; Model statements for module: Delay 3
12$ DELAY: MinutesToBaseTime(NORM( 15, 3)),,Other:NEXT(13$);

```

```

; Model statements for module: Release 4
13$ RELEASE: Linie_spalare3,1:NEXT(4$);

```

```

; Model statements for module: Dispose 1
4$ ASSIGN: Iesire.NumberOut=Iesire.NumberOut + 1;
22$ DISPOSE: Yes;

```

```

; Model statements for module: Seize 1
0$ QUEUE, Sir1;
    SEIZE, 2,Other: Linie_spalare1,1:NEXT(24$);

```

```

24$ DELAY: 0.0,,VA:NEXT(2$);

```

```

; Model statements for module: Delay 1
2$ DELAY: MinutesToBaseTime(NORM( 15,3)),,Other:NEXT(3$);

```

```

; Model statements for module: Release 1
3$ RELEASE: Linie_spalare1,1:NEXT(4$);

; Model statements for module: Seize 2
6$ QUEUE, Sir2;
SEIZE, 2,Other: Linie_spalare2,1:NEXT(26$);

26$ DELAY: 0.0,,VA:NEXT(8$);
; Model statements for module: Delay 2
8$ DELAY: MinutesToBaseTime(NORM( 15, 3)),,Other:NEXT(9$);

; Model statements for module: Release 3
9$ RELEASE: Linie_spalare2,1:NEXT(4$);

```

Fișierul Experiment

QUEUES:

```

Sir1,FIFO,,AUTOSTATS(Yes,,):
Sir2,FIFO,,AUTOSTATS(Yes,,):
Sir3,FIFO,,AUTOSTATS(Yes,,):

```

RESOURCES:

```

Linie_spalare1,Capacity(1),,,COST(0.0,0.0,0.0),CATEGORY(Resources),,AUTOSTATS(Yes,,):
Linie_spalare2,Capacity(1),,,COST(0.0,0.0,0.0),CATEGORY(Resources),,AUTOSTATS(Yes,,):
Linie_spalare3,Capacity(1),,,COST(0.0,0.0,0.0),CATEGORY(Resources),,AUTOSTATS(Yes,,):

```

```

REPLICATE, 1,,HoursToBaseTime(12),Yes,Yes,,,24,Hours,No,No,,,Yes;

```

```

ENTITIES: Entity 1,Picture.Report,0.0,0.0,0.0,0.0,0.0,0.0,AUTOSTATS(Yes,,);

```

Activitatea 3.

Nu se cere pentru testul de la laborator.