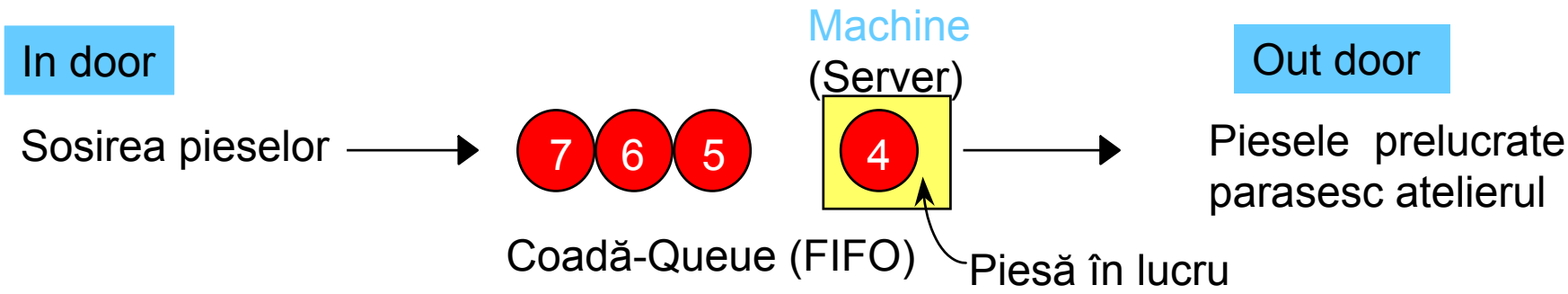
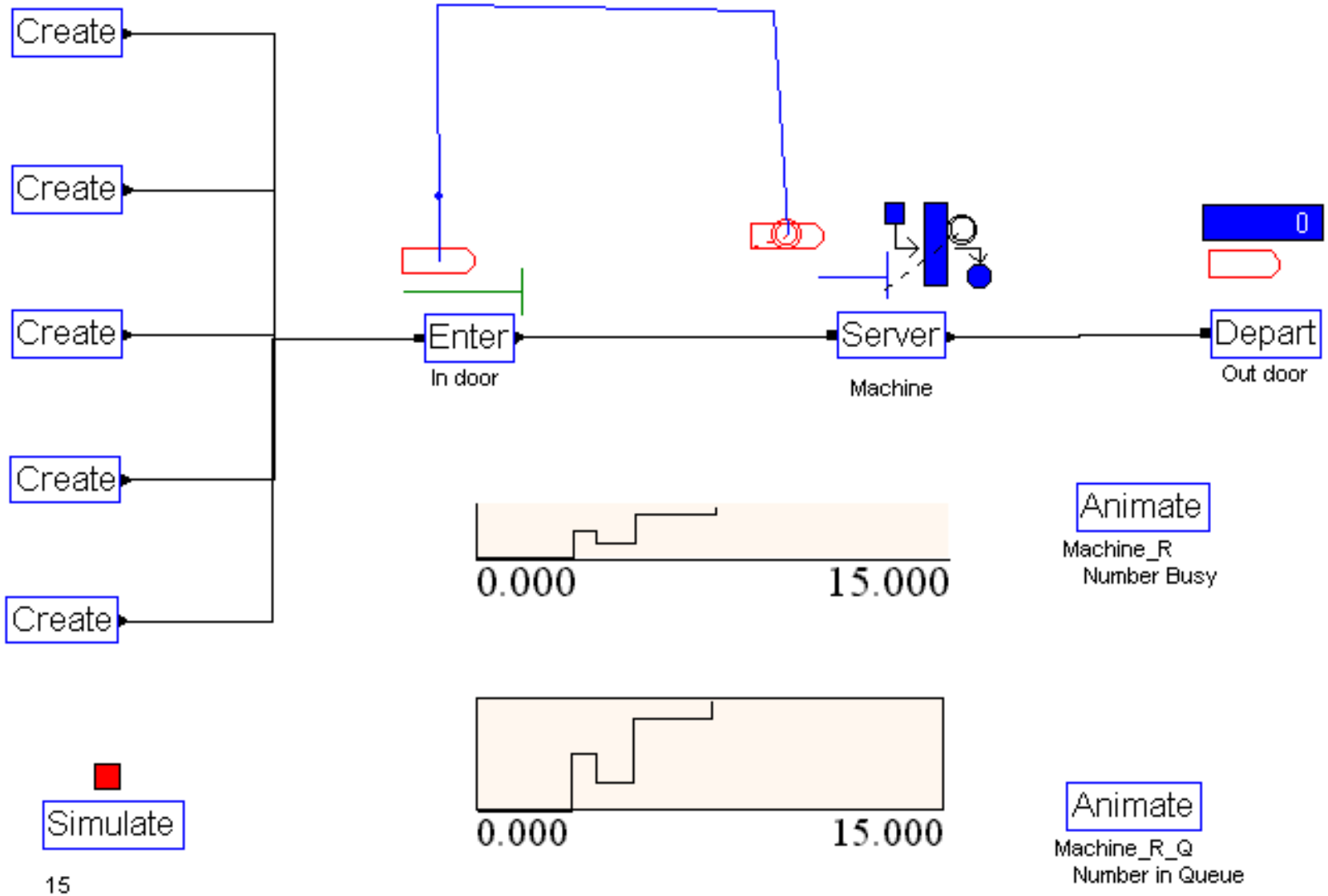
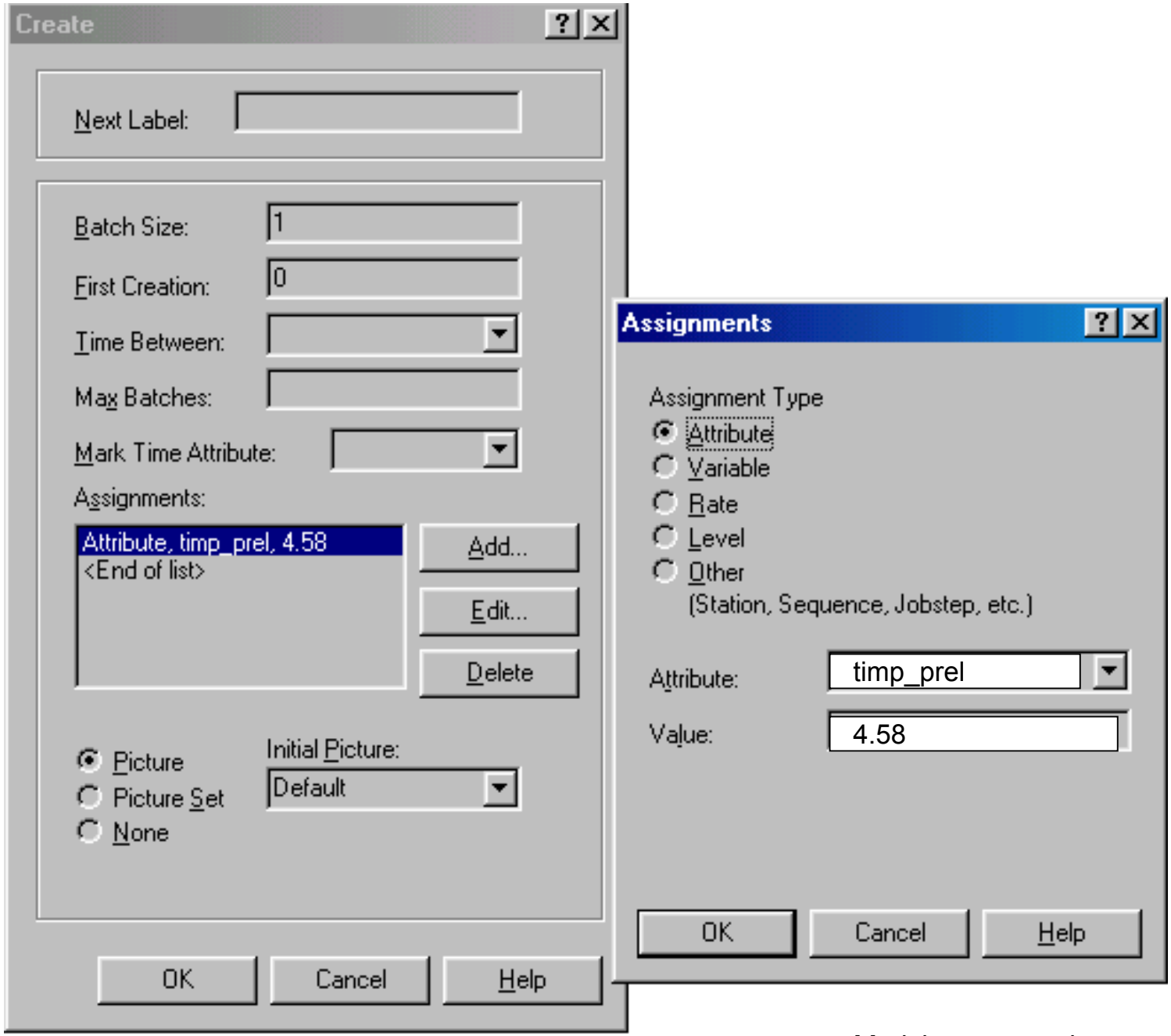
Exemplul simplu (introductiv)

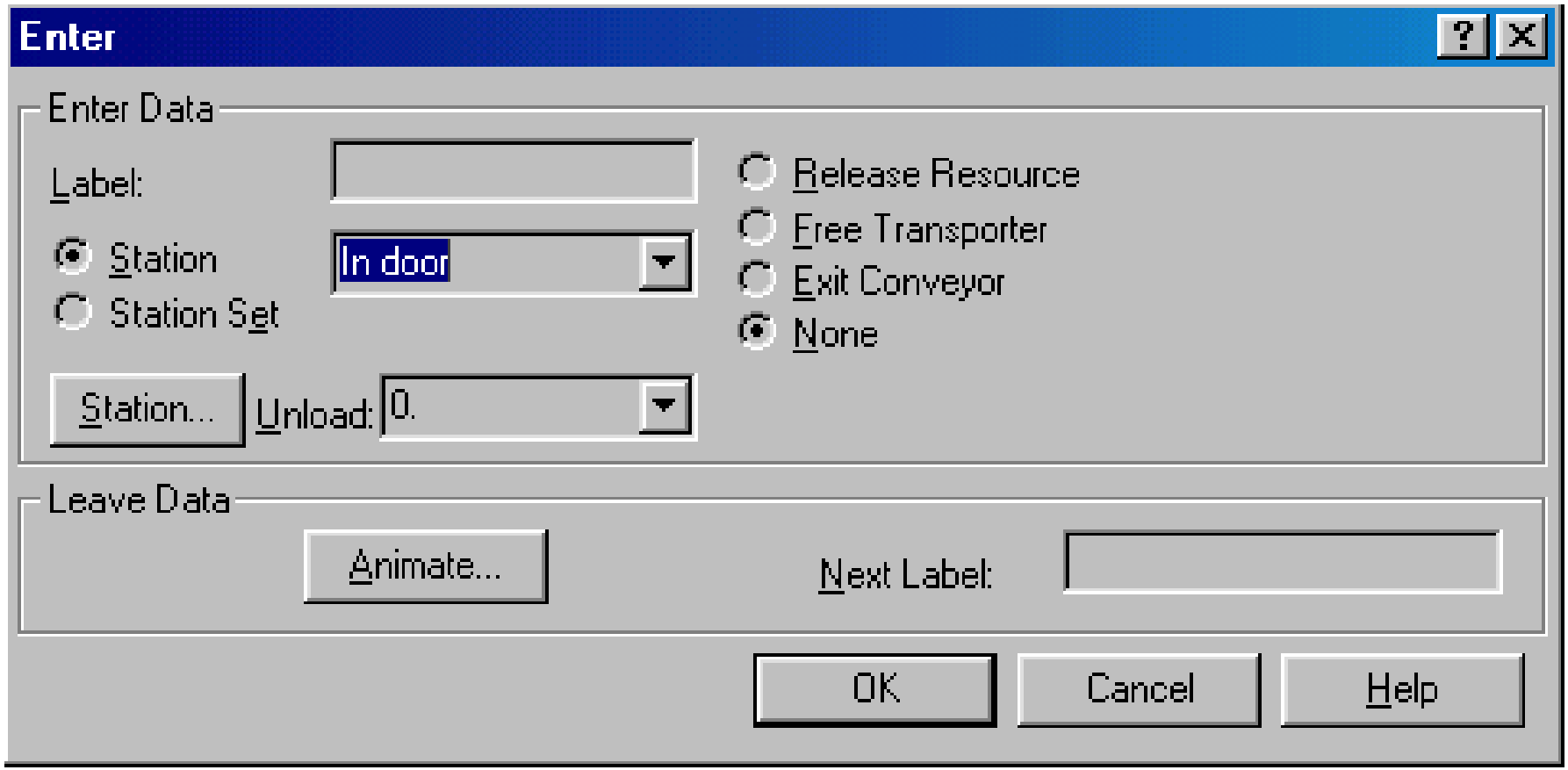


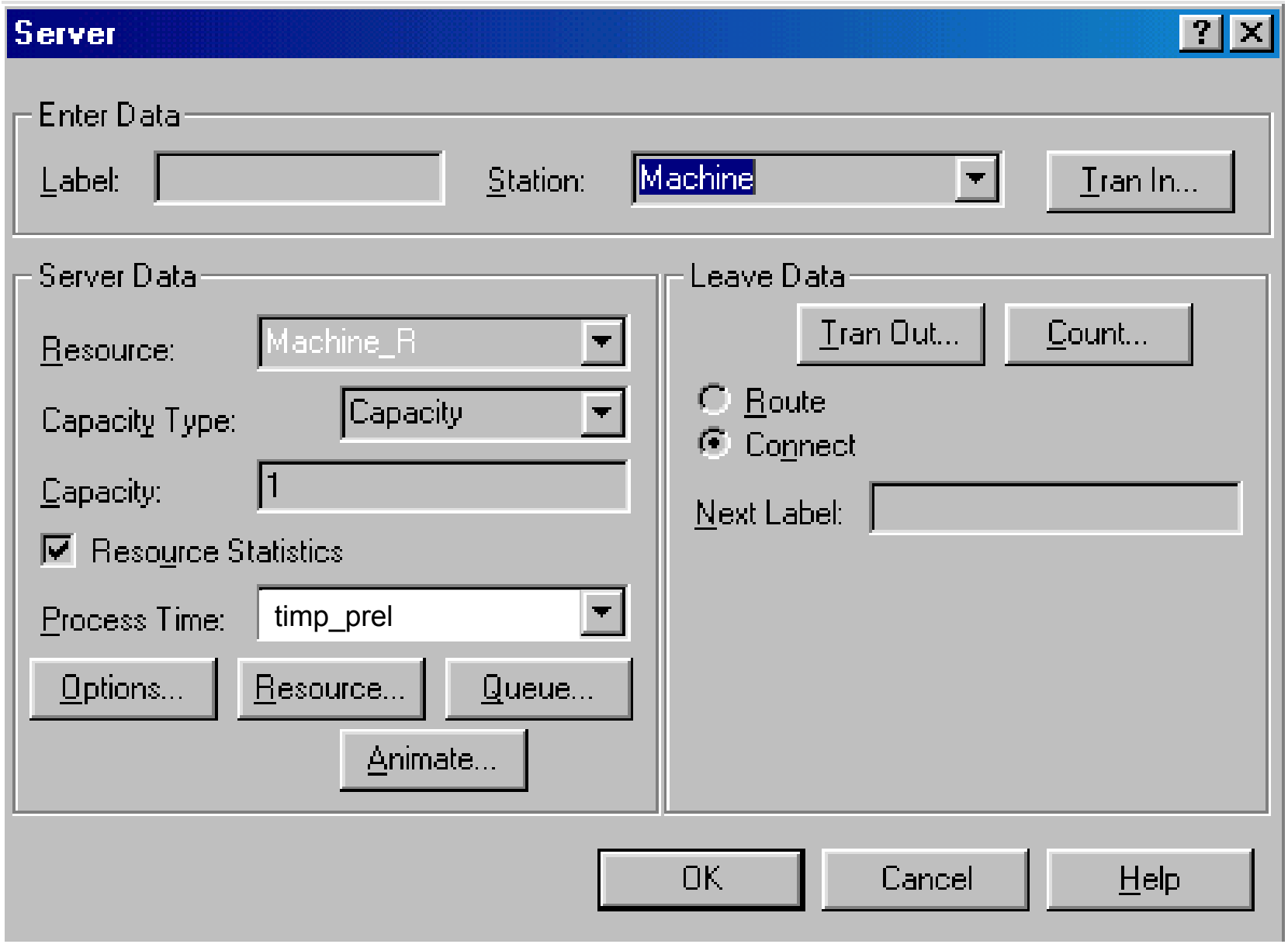
Datele pentru model

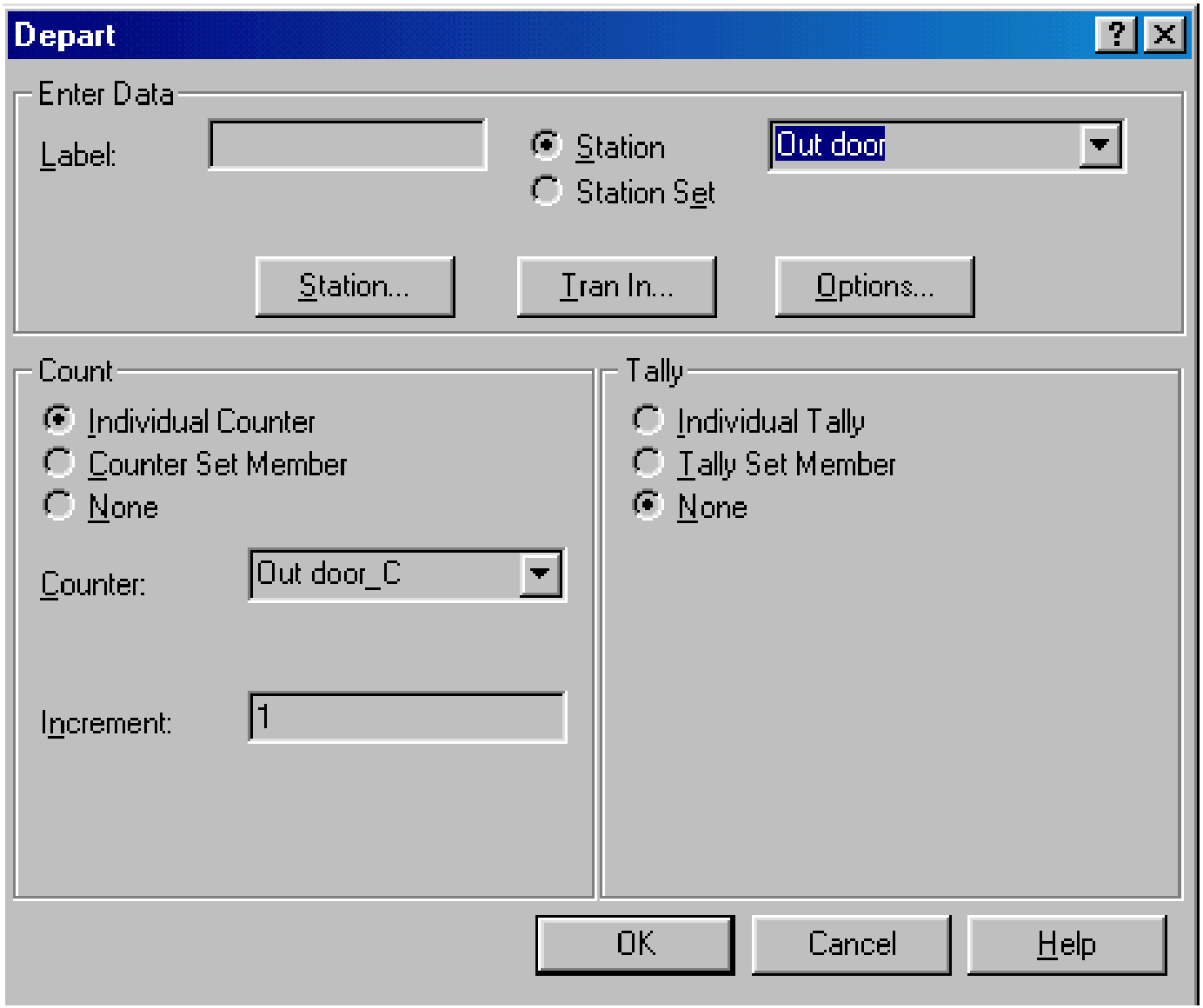
- Timpul la sosire : 0.00, 6.84, 9.24, 11.94, 14.53
- Timpul de prelucr.: 4.58, 2.96, 5.86, 3.21, 3.11
- Se face analiza după ce au trecut 15 minute (timp de simulare)

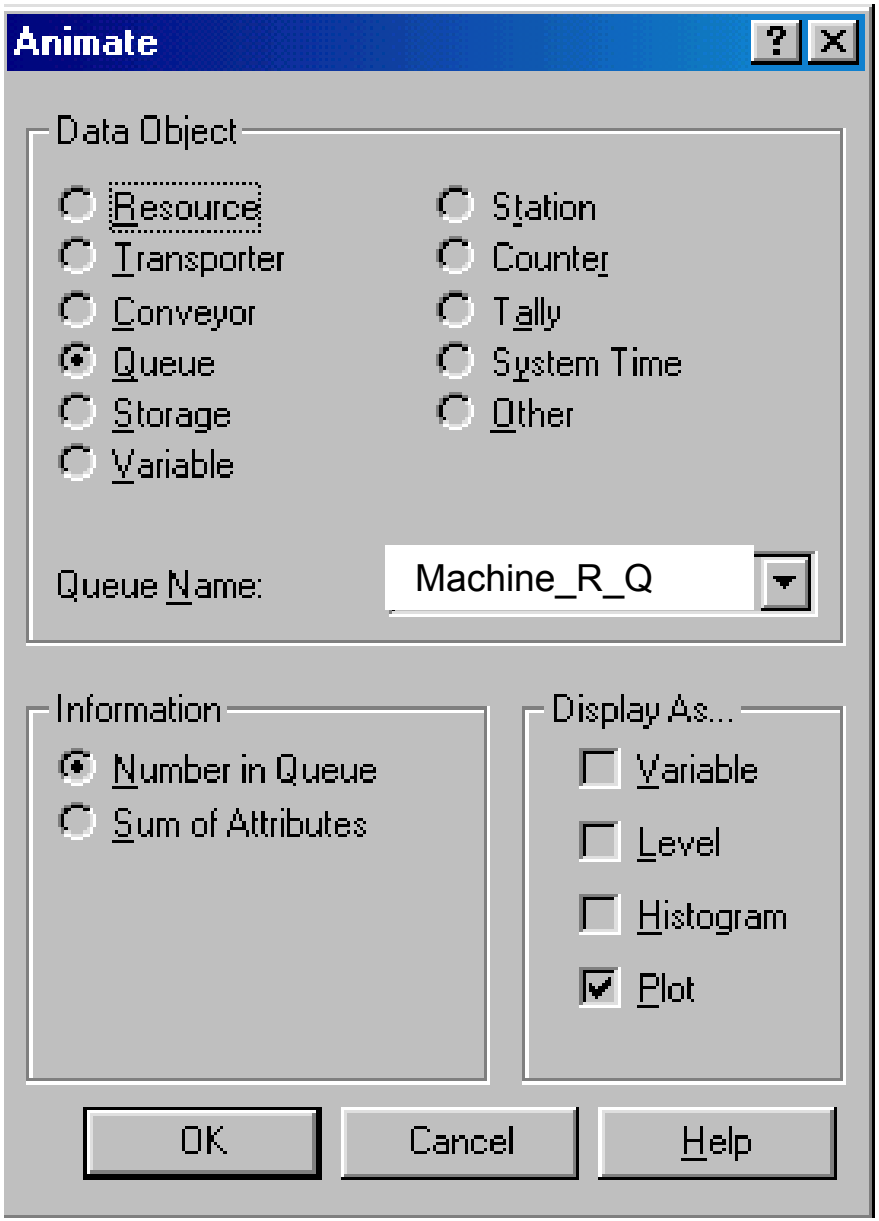

Create
Create
Create
Create
Create
Enter
In door
Server
Machine
Depart
Out door
0
0.000
15.000
Animate
Machine_R
Number Busy
0.000
15.000
Animate
Machine_R_Q
Number in Queue
Simulate
15

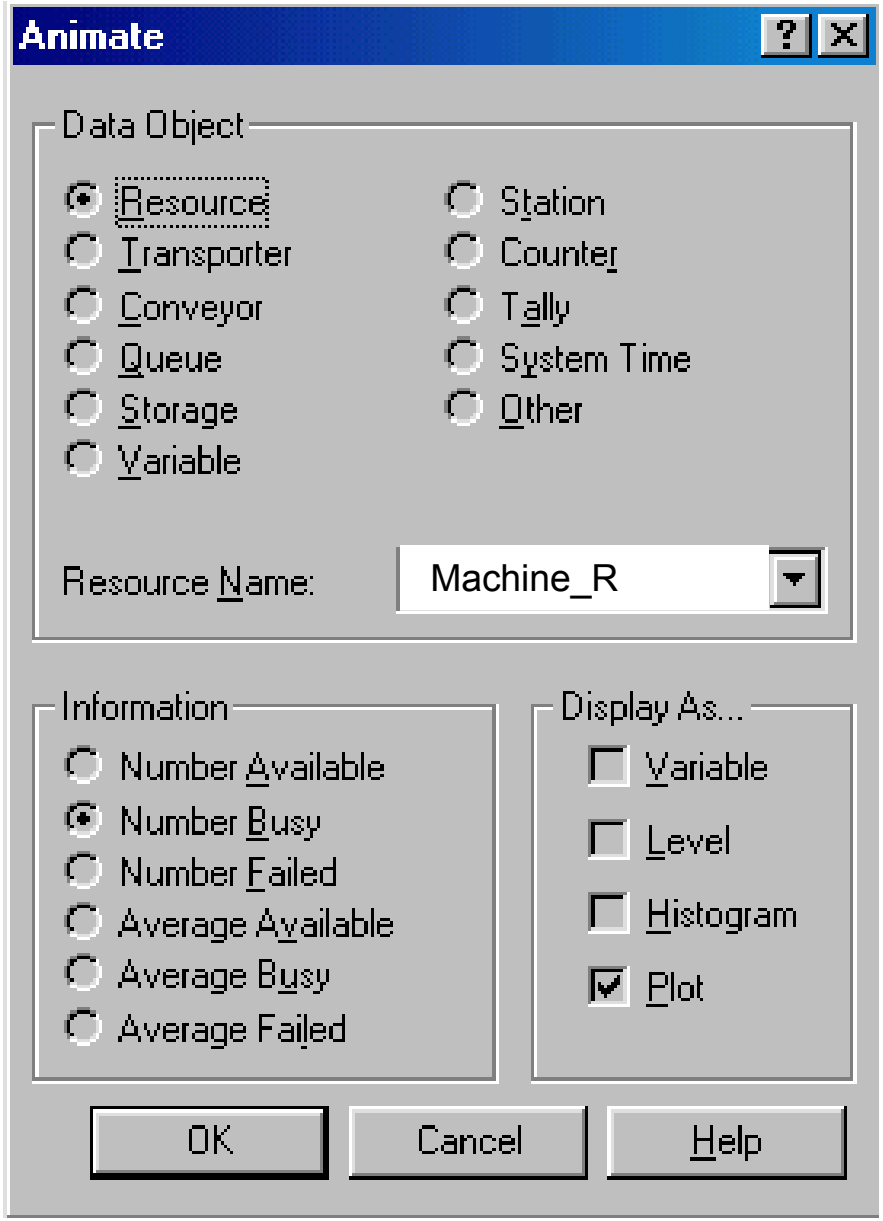

Create
Next Label:
Batch Size:
1
First Creation:
0
Time Between:
Max Batches:
Mark Time Attribute:
Assignments:
Attribute, timp_prel, 4.58
<End of list>
Add...
Edit...
Delete
Picture
Picture Set
None
Initial Picture:
Default
OK
Cancel
Help
Assignments
Assignment Type
Attribute
Variable
Rate
Level
Other
(Station, Sequence, Jobstep, etc.)
Attribute:
timp_prel
Value:
4.58
OK
Cancel
Help

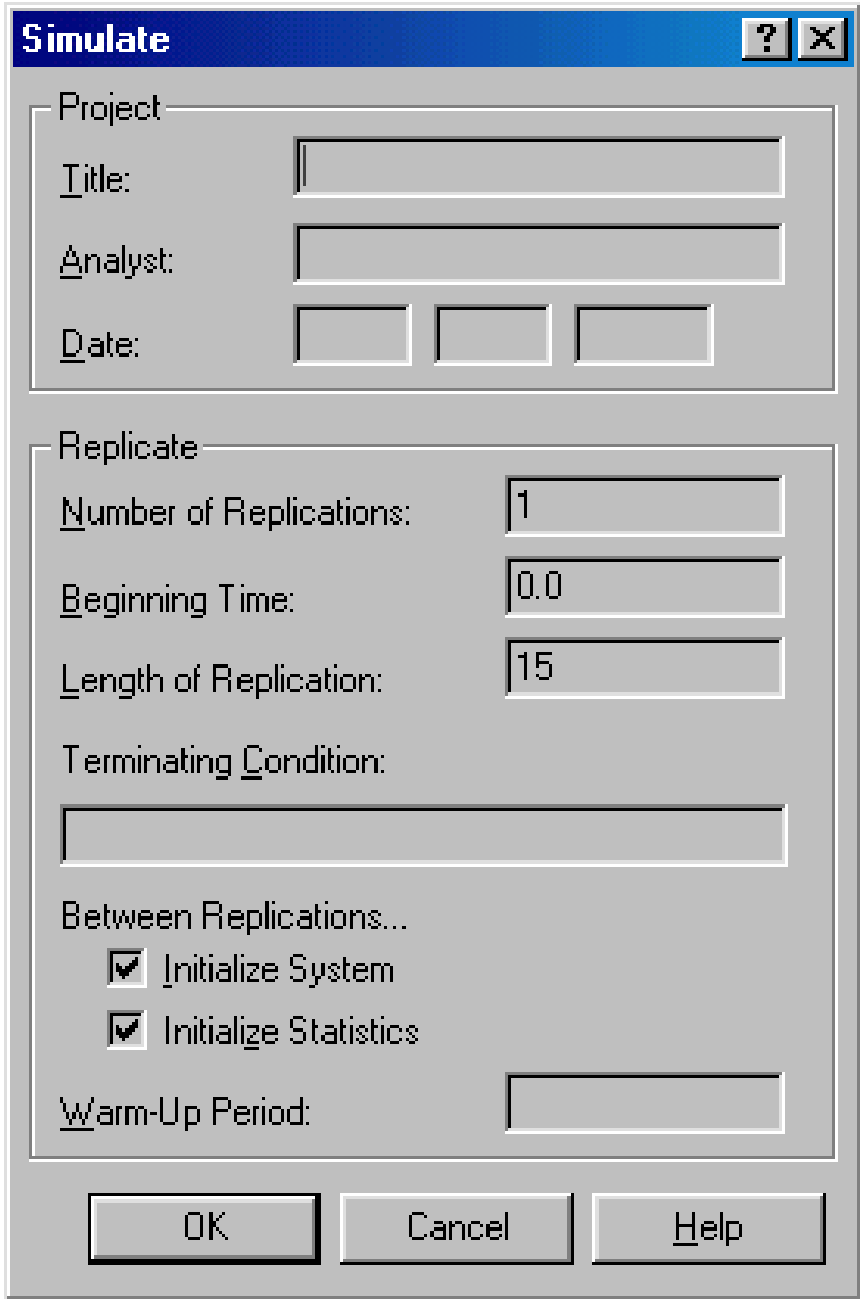

Enter
Enter Data
Label:
Station
Station Set
In door
Release Resource
Free Transporter
Exit Conveyor
None
Station...
Unload:
0.
Leave Data
Animate...
Next Label:
OK
Cancel
Help


Server
Enter Data
Label:
Station:
Machine
Tran In...
Server Data
Resource:
Machine_R
Capacity Type:
Capacity
Capacity:
1
Resource Statistics
Process Time:
timp_prel
Options...
Resource...
Queue...
Animate...
Leave Data
Tran Out...
Count...
Route
Connect
Next Label:
OK
Cancel
Help


Depart
Enter Data
Label:
Station
Station Set
Out door
Station...
Tran In...
Options...
Count
Individual Counter
Counter Set Member
None
Counter:
Out door_C
Increment:
1
Tally
Individual Tally
Tally Set Member
None
OK
Cancel
Help


Animate
Data Object
Resource
Transporter
Conveyor
Queue
Storage
Variable
Station
Counter
Tally
System Time
Other
Queue Name:
Machine_R_Q
Information
Number in Queue
Sum of Attributes
Display As...
Variable
Level
Histogram
Plot
OK
Cancel
Help


Animate
Data Object
Resource
Transporter
Conveyor
Queue
Storage
Variable
Station
Counter
Tally
System Time
Other
Resource Name:
Machine_R
Information
Number Available
Number Busy
Number Failed
Average Available
Average Busy
Average Failed
Display As...
Variable
Level
Histogram
Plot
OK
Cancel
Help


Simulate
Project
Title:
Analyst:
Date:
Replicate
Number of Replications:
1
Beginning Time:
0.0
Length of Replication:
15
Terminating Condition:
Between Replications...
Initialize System
Initialize Statistics
Warm-Up Period:
OK
Cancel
Help

ARENA Simulation Results
adrian - License #9400000

Summary for Replication 1 of 1

Project: Run execution date : 3/ 3/2002
Analyst: Model revision date: 3/ 3/2002

Replication ended at time : 15.0

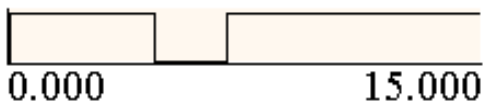
TALLY VARIABLES

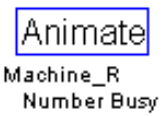
Identifier	Average	Half Width	Minimum	Maximum	Observations
Machine_R_Q Queue Time	.18667	(Insuf)	.00000	.56000	3

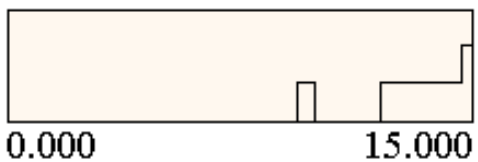
DISCRETE-CHANGE VARIABLES

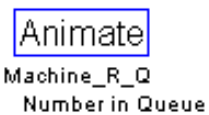
Identifier	Average	Half Width	Minimum	Maximum	Final Value
Machine_R Busy	.84933	(Insuf)	.00000	1.0000	1.0000
# in Machine_R_Q	.27267	(Insuf)	.00000	2.0000	2.0000
Machine_R Available	1.0000	(Insuf)	1.0000	1.0000	1.0000

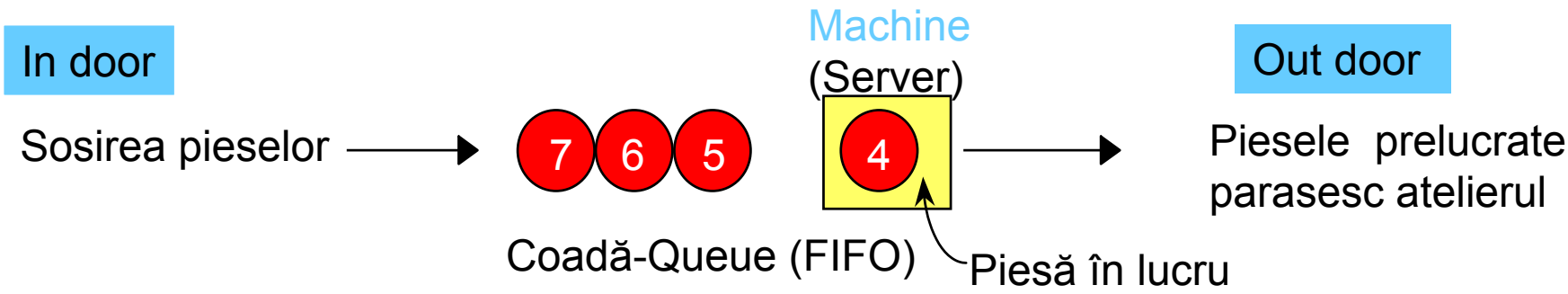
COUNTERS





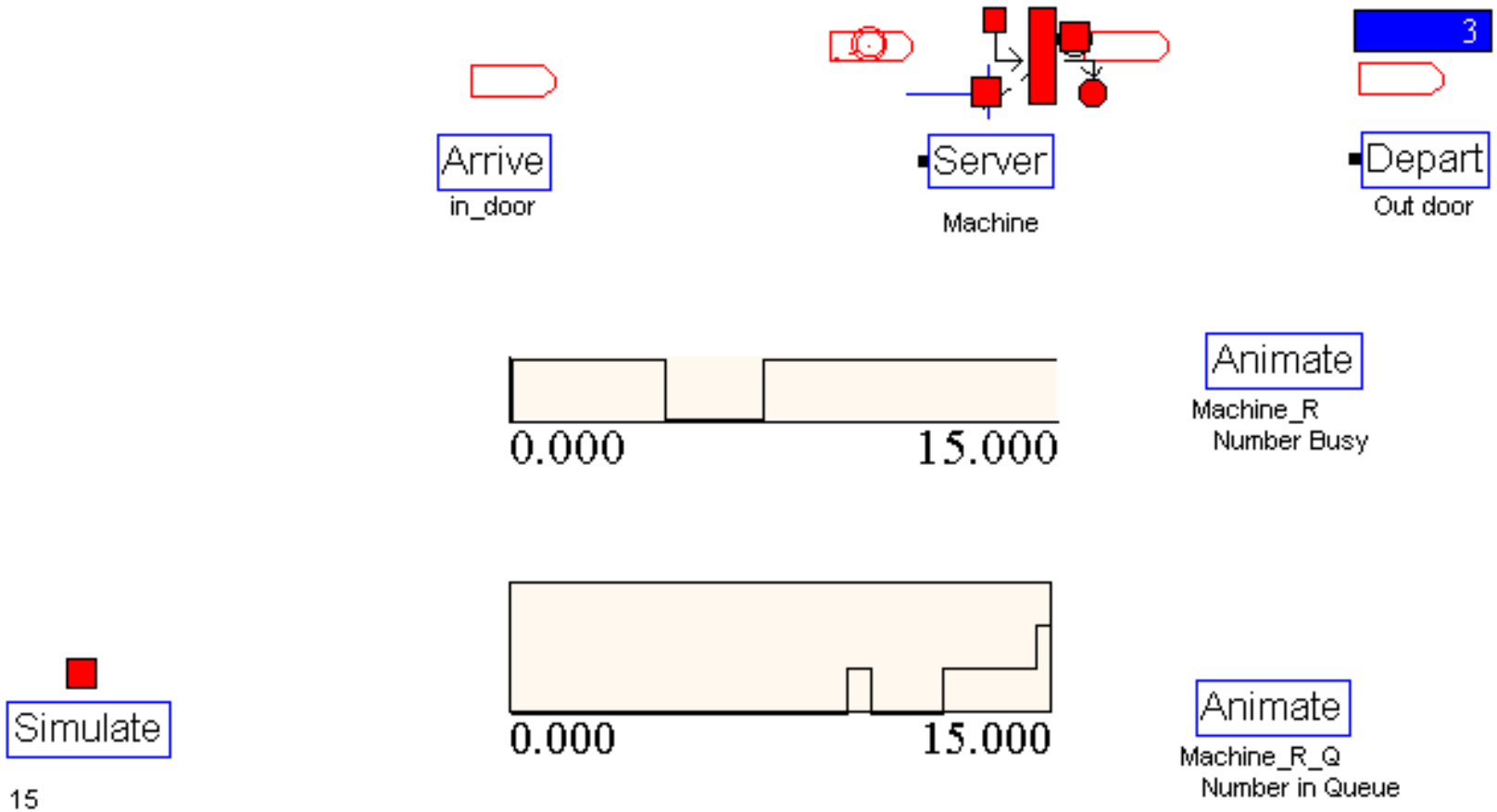




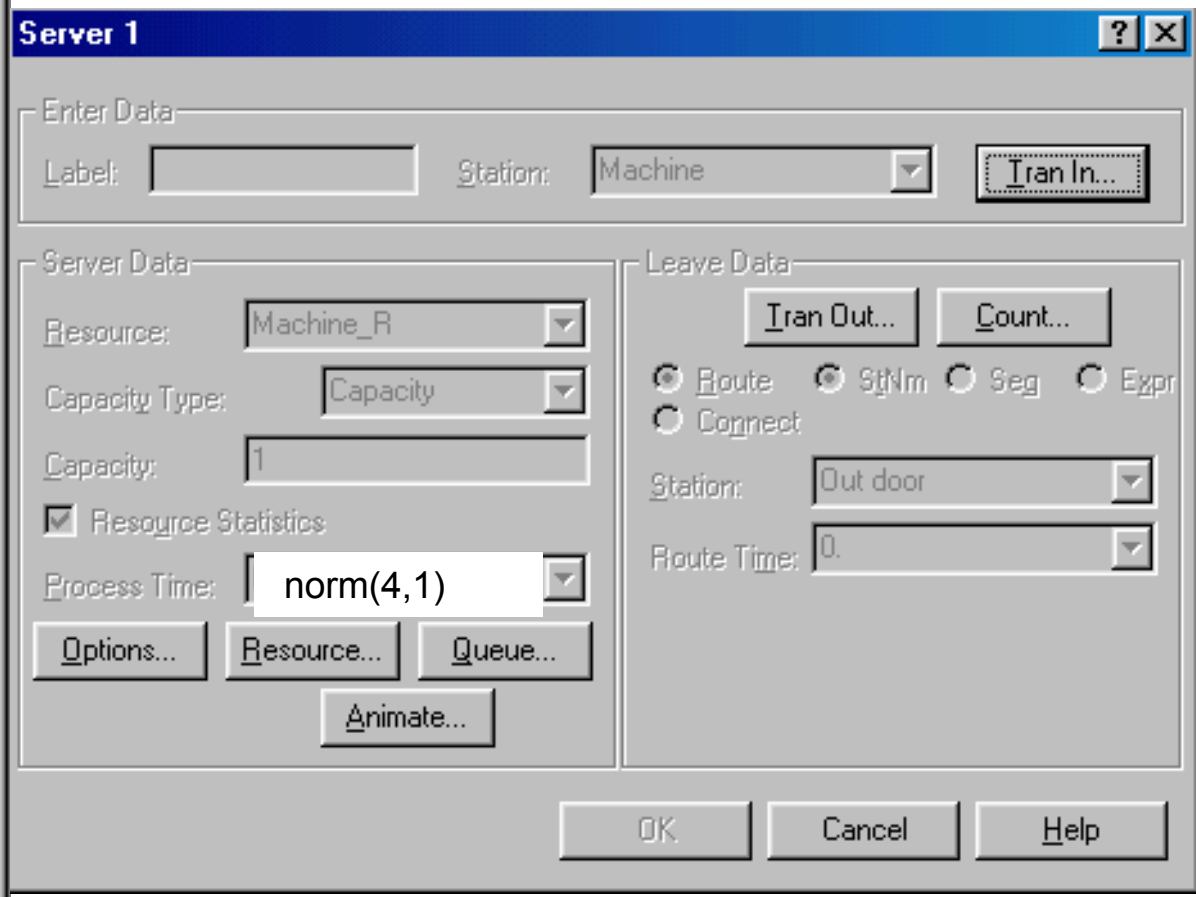


Datele pentru model

- Timpul la sosire :distribuție exponențială exp(5)
- Timpul de prelucr.: distribuție normală norm(4,1)
- Se face analiza după ce au trecut 15 minute (timp de simulare)


Arrive
in_door
Server
Machine
3
Depart
Out door
0.000
15.000
Animate
Machine_R
Number Busy
0.000
15.000
Animate
Machine_R_Q
Number in Queue
Simulate
15

Arrive
Enter Data
Station
Station Set
in_door
Station...
Options...
Arrival Data
Batch Size:
1
First Creation:
Time Between:
EXPO(5)
Max Batches:
Mark Time Attribute:
Assign...
Animate...
Leave Data
Tran Out...
Count...
Route
StNm
Seg
Expr
Connect
Station:
Machine
Route Time:
0.
OK
Cancel
Help


Server 1
Enter Data
Label:
Station:
Machine
Tran In...
Server Data
Resource:
Machine_R
Capacity Type:
Capacity
Capacity:
1
Resource Statistics
Process Time:
norm(4,1)
Options...
Resource...
Queue...
Animate...
Leave Data
Tran Out...
Count...
Route
StNm
Seg
Expr
Connect
Station:
Out door
Route Time:
0.
OK
Cancel
Help

ARENA Simulation Results
adrian - License #9400000

Summary for Replication 1 of 1

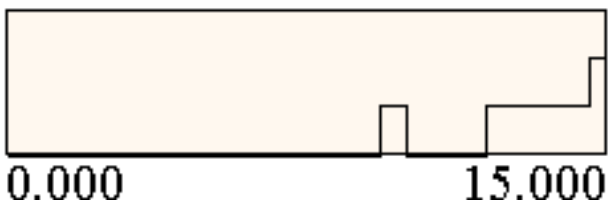
Project: Run execution date : 3/ 3/2002
Analyst: Model revision date: 3/ 3/2002

Replication ended at time : 15.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Machine_R_Q Queue Time	.91693	(Insuf)	.00000	2.9723	4

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Machine_R Busy	.82448	(Insuf)	.00000	1.0000	1.0000
# in Machine_R_Q	.27617	(Insuf)	.00000	2.0000	1.0000
Machine_R Available	1.0000	(Insuf)	1.0000	1.0000	1.0000

COUNTERS