

ARENA Simulation Results
 Joanna - License: STUDENT

Summary for Replication 1 of 20

Project: TELARES
 5/20/2003
 Analyst: JOANNA
 5/20/2003

Run execution date :
 Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.9313	(Insuf)	1.2000	15.000	60
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	60
Entity 1.WaitTime	146.57	(Insuf)	.00000	316.93	60
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	60
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	60
Entity 1.TotalTime	154.51	(Insuf)	10.500	327.43	60
PROCESO.Queue.WaitingT	149.46	(Insuf)	.00000	322.40	61

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	58.680	(Insuf)	.00000	116.00	115.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	57.680	(Insuf)	.00000	115.00	114.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	175.00
Entity 1.NumberOut	60.000
Operador.TimesUsed	61.000
Operador.ScheduledUtili	1.0000
System.NumberOut	60.000

Beginning replication 2 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 2 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	
Entity 1.VATime	8.3350	(Insuf)	1.2000	15.000	56
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	56
Entity 1.WaitTime	176.14	(Insuf)	.00000	323.36	56
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	56
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	56
Entity 1.TotalTime	184.47	(Insuf)	6.3300	330.51	56
PROCESO.Queue.WaitingT	178.68	(Insuf)	.00000	323.36	57

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	63.134	(Insuf)	.00000	119.00	119.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	62.134	(Insuf)	.00000	118.00	118.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	175.00
Entity 1.NumberOut	56.000
Operador.TimesUsed	57.000
Operador.ScheduledUtili	1.0000

System.NumberOut

56.000

Beginning replication 3 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 3 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum	
Entity 1.VATime	6.7298	(Insuf)	1.2000	15.000	71
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	71
Entity 1.WaitTime	163.44	(Insuf)	.00000	301.97	71
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	71
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	71
Entity 1.TotalTime	170.17	(Insuf)	1.8000	303.77	71
PROCESO.Queue.WaitingT	165.25	(Insuf)	.00000	301.97	72

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	57.697	(Insuf)	.00000	105.00	105.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	56.697	(Insuf)	.00000	104.00	104.00

OUTPUTS

Identifier Value

Entity 1.NumberIn	176.00
Entity 1.NumberOut	71.000
Operador.TimesUsed	72.000
Operador.ScheduledUtili	1.0000
System.NumberOut	71.000

Beginning replication 4 of 20

ARENA Simulation Results
 Joanna - License: STUDENT

Summary for Replication 4 of 20

Project:TELARES
 5/20/2003
 Analyst:JOANNA
 5/20/2003

Run execution date :
 Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	
Observations					
Entity 1.VATime	7.5098	(Insuf)	1.2000	15.000	62
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	62
Entity 1.WaitTime	160.64	(Insuf)	.00000	305.04	62
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	62
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	62
Entity 1.TotalTime	168.15	(Insuf)	15.000	306.84	62
PROCESO.Queue.WaitingT	162.88	(Insuf)	.00000	305.04	63

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final
Value					
Entity 1.WIP	59.198	(Insuf)	.00000	112.00	112.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000

Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	58.198	(Insuf)	.00000	111.00	111.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	174.00
Entity 1.NumberOut	62.000
Operador.TimesUsed	63.000
Operador.ScheduledUtili	1.0000
System.NumberOut	62.000

Beginning replication 5 of 20

ARENA Simulation Results
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Summary for Replication 5 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	
Observations					
Entity 1.VATime	7.5438	(Insuf)	1.8000	15.000	63
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	63
Entity 1.WaitTime	171.43	(Insuf)	.00000	302.29	63
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	63
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	63
Entity 1.TotalTime	178.98	(Insuf)	15.000	313.80	63
PROCESO.Queue.WaitingT	173.65	(Insuf)	.00000	313.01	64

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
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Entity 1.WIP	61.141	(Insuf)	.00000	113.00	113.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	60.141	(Insuf)	.00000	112.00	112.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	63.000
Operador.TimesUsed	64.000
Operador.ScheduledUtili	1.0000
System.NumberOut	63.000

Beginning replication 6 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 6 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :

Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum
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Entity 1.VATime	7.8845	(Insuf)	1.2000	15.000	60
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	60
Entity 1.WaitTime	183.11	(Insuf)	.00000	327.09	60
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	60
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	60
Entity 1.TotalTime	190.99	(Insuf)	6.3300	328.29	60

PROCESO.Queue.WaitingT 185.28 (Insuf) .00000 327.09 61

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	62.849	(Insuf)	.00000	116.00	116.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	61.849	(Insuf)	.00000	115.00	115.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	60.000
Operador.TimesUsed	61.000
Operador.ScheduledUtili	1.0000
System.NumberOut	60.000

Beginning replication 7 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 7 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum
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Entity 1.VATime	8.0231	(Insuf)	1.2000	15.000	58
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	58
Entity 1.WaitTime	150.52	(Insuf)	.00000	314.33	58
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	58
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	58
Entity 1.TotalTime	158.54	(Insuf)	1.2000	316.13	58
PROCESO.Queue.WaitingT	153.31	(Insuf)	.00000	315.47	59

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	59.016	(Insuf)	.00000	115.00	115.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	58.016	(Insuf)	.00000	114.00	114.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	173.00
Entity 1.NumberOut	58.000
Operador.TimesUsed	59.000
Operador.ScheduledUtili	1.0000
System.NumberOut	58.000

Beginning replication 8 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 8 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum	
Entity 1.VATime	7.7791	(Insuf)	1.2000	15.000	60
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	60
Entity 1.WaitTime	152.40	(Insuf)	.00000	309.14	60
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	60
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	60
Entity 1.TotalTime	160.18	(Insuf)	1.8000	318.14	60
PROCESO.Queue.WaitingT	154.96	(Insuf)	.00000	309.14	61

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	58.513	(Insuf)	.00000	116.00	116.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	57.513	(Insuf)	.00000	115.00	115.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	60.000
Operador.TimesUsed	61.000
Operador.ScheduledUtili	1.0000
System.NumberOut	60.000

Beginning replication 9 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 9 of 20

Project:TELARES
5/20/2003

Run execution date :

Analyst:JOANNA
5/20/2003

Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum	
Entity 1.VATime	7.5758	(Insuf)	1.2000	15.000	63
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	63
Entity 1.WaitTime	172.49	(Insuf)	.00000	308.47	63
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	63
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	63
Entity 1.TotalTime	180.06	(Insuf)	15.000	318.97	63
PROCESO.Queue.WaitingT	174.71	(Insuf)	.00000	314.75	64

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	60.777	(Insuf)	.00000	114.00	113.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	59.777	(Insuf)	.00000	113.00	112.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	63.000
Operador.TimesUsed	64.000
Operador.ScheduledUtili	1.0000
System.NumberOut	63.000

Beginning replication 10 of 20

ARENA Simulation Results

Joanna - License: STUDENT

Summary for Replication 10 of 20

Project: TELARES
5/20/2003
Analyst: JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	6.8146	(Insuf)	1.2000	15.000	69
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	69
Entity 1.WaitTime	164.44	(Insuf)	.00000	296.46	69
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	69
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	69
Entity 1.TotalTime	171.26	(Insuf)	10.500	298.26	69
PROCESO.Queue.WaitingT	166.29	(Insuf)	.00000	296.46	70

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	57.743	(Insuf)	.00000	105.00	105.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	56.743	(Insuf)	.00000	104.00	104.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	174.00
Entity 1.NumberOut	69.000
Operador.TimesUsed	70.000
Operador.ScheduledUtili	1.0000
System.NumberOut	69.000

Beginning replication 11 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 11 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum	
Entity 1.VATime	6.8769	(Insuf)	1.2000	15.000	69
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	69
Entity 1.WaitTime	131.14	(Insuf)	.00000	285.92	69
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	69
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	69
Entity 1.TotalTime	138.01	(Insuf)	1.2000	300.72	69
PROCESO.Queue.WaitingT	133.46	(Insuf)	.00000	293.92	70

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	52.865	(Insuf)	.00000	107.00	106.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	51.865	(Insuf)	.00000	106.00	105.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	175.00
Entity 1.NumberOut	69.000
Operador.TimesUsed	70.000
Operador.ScheduledUtili	1.0000
System.NumberOut	69.000

Beginning replication 12 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 12 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum	
Entity 1.VATime	8.6496	(Insuf)	1.2000	15.000	54
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	54
Entity 1.WaitTime	161.54	(Insuf)	.00000	317.47	54
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	54
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	54
Entity 1.TotalTime	170.18	(Insuf)	10.500	327.77	54
PROCESO.Queue.WaitingT	164.55	(Insuf)	.00000	327.51	55

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	62.499	(Insuf)	.00000	123.00	123.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	61.499	(Insuf)	.00000	122.00	122.00

OUTPUTS

Identifier Value

Entity 1.NumberIn	177.00
Entity 1.NumberOut	54.000
Operador.TimesUsed	55.000
Operador.ScheduledUtili	1.0000
System.NumberOut	54.000

Beginning replication 13 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 13 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.4059	(Insuf)	1.2000	15.000	64
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	64
Entity 1.WaitTime	161.45	(Insuf)	.00000	290.42	64
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	64
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	64
Entity 1.TotalTime	168.85	(Insuf)	14.800	305.22	64
PROCESO.Queue.WaitingT	163.63	(Insuf)	.00000	303.59	65

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	58.875	(Insuf)	.00000	112.00	112.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000

PROCESO.Queue.NumberIn 57.875 (Insuf) .00000 111.00 111.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	64.000
Operador.TimesUsed	65.000
Operador.ScheduledUtili	1.0000
System.NumberOut	64.000

Beginning replication 14 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 14 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	8.6754	(Insuf)	1.2000	15.000	55
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	55
Entity 1.WaitTime	160.22	(Insuf)	.00000	326.06	55
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	55
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	55
Entity 1.TotalTime	168.89	(Insuf)	10.500	340.86	55
PROCESO.Queue.WaitingT	163.43	(Insuf)	.00000	340.31	56

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
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Entity 1.WIP	62.361	(Insuf)	.00000	121.00	121.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	61.361	(Insuf)	.00000	120.00	120.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	55.000
Operador.TimesUsed	56.000
Operador.ScheduledUtili	1.0000
System.NumberOut	55.000

Beginning replication 15 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 15 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :

Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum
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Entity 1.VATime	7.0172	(Insuf)	1.2000	15.000	68
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	68
Entity 1.WaitTime	143.60	(Insuf)	.00000	295.52	68
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	68
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	68
Entity 1.TotalTime	150.62	(Insuf)	1.8000	299.96	68

PROCESO.Queue.WaitingT 145.86 (Insuf) .00000 299.42 69

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	54.824	(Insuf)	.00000	107.00	106.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	53.824	(Insuf)	.00000	106.00	105.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	174.00
Entity 1.NumberOut	68.000
Operador.TimesUsed	69.000
Operador.ScheduledUtili	1.0000
System.NumberOut	68.000

Beginning replication 16 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 16 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum
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Entity 1.VATime	9.3490	(Insuf)	1.2000	15.000	50
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	50
Entity 1.WaitTime	190.90	(Insuf)	.00000	330.14	50
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	50
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	50
Entity 1.TotalTime	200.25	(Insuf)	14.800	344.94	50
PROCESO.Queue.WaitingT	193.86	(Insuf)	.00000	341.94	51

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	67.151	(Insuf)	.00000	126.00	126.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	66.151	(Insuf)	.00000	125.00	125.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	50.000
Operador.TimesUsed	51.000
Operador.ScheduledUtili	1.0000
System.NumberOut	50.000

Beginning replication 17 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 17 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum	
Entity 1.VATime	7.8465	(Insuf)	1.2000	15.000	61
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	61
Entity 1.WaitTime	175.88	(Insuf)	.00000	318.80	61
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	61
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	61
Entity 1.TotalTime	183.73	(Insuf)	10.500	326.95	61
PROCESO.Queue.WaitingT	178.11	(Insuf)	.00000	318.80	62

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	61.153	(Insuf)	.00000	114.00	113.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	60.153	(Insuf)	.00000	113.00	112.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	174.00
Entity 1.NumberOut	61.000
Operador.TimesUsed	62.000
Operador.ScheduledUtili	1.0000
System.NumberOut	61.000

Beginning replication 18 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 18 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum	
Entity 1.VATime	8.6741	(Insuf)	1.2000	15.000	55
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	55
Entity 1.WaitTime	160.97	(Insuf)	.00000	330.38	55
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	55
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	55
Entity 1.TotalTime	169.64	(Insuf)	1.8000	340.88	55
PROCESO.Queue.WaitingT	164.17	(Insuf)	.00000	340.22	56

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	62.903	(Insuf)	.00000	121.00	120.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	61.903	(Insuf)	.00000	120.00	119.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	175.00
Entity 1.NumberOut	55.000
Operador.TimesUsed	56.000
Operador.ScheduledUtili	1.0000
System.NumberOut	55.000

ARENA Simulation Results
 Joanna - License: STUDENT

Summary for Replication 19 of 20

Project: TELARES
 5/20/2003
 Analyst: JOANNA
 5/20/2003

Run execution date :
 Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum	
Entity 1.VATime	8.8131	(Insuf)	1.2000	15.000	54
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	54
Entity 1.WaitTime	173.40	(Insuf)	.00000	333.46	54
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	54
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	54
Entity 1.TotalTime	182.21	(Insuf)	1.8000	339.79	54
PROCESO.Queue.WaitingT	176.40	(Insuf)	.00000	338.26	55

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	63.540	(Insuf)	.00000	120.00	120.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	62.540	(Insuf)	.00000	119.00	119.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	174.00
Entity 1.NumberOut	54.000
Operador.TimesUsed	55.000
Operador.ScheduledUtili	1.0000
System.NumberOut	54.000

Beginning replication 20 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 20 of 20

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

Replication ended at time : 480.0

TALLY VARIABLES

Identifier Observations	Average	Half Width	Minimum	Maximum	
Entity 1.VATime	7.6504	(Insuf)	1.2000	15.000	61
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	61
Entity 1.WaitTime	141.88	(Insuf)	.00000	299.77	61
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	61
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	61
Entity 1.TotalTime	149.53	(Insuf)	1.8000	310.27	61
PROCESO.Queue.WaitingT	144.54	(Insuf)	.00000	306.56	62

DISCRETE-CHANGE VARIABLES

Identifier Value	Average	Half Width	Minimum	Maximum	Final
Entity 1.WIP	57.570	(Insuf)	.00000	115.00	115.00
Operador.NumberBusy	1.0000	(Insuf)	.00000	1.0000	1.0000
Operador.NumberSchedul	1.0000	(Insuf)	1.0000	1.0000	1.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	56.570	(Insuf)	.00000	114.00	114.00

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	61.000
Operador.TimesUsed	62.000
Operador.ScheduledUtili	1.0000
System.NumberOut	61.000

ARENA Simulation Results
Joanna

Output Summary for 20 Replications

Project:TELARES
5/20/2003
Analyst:JOANNA
5/20/2003

Run execution date :
Model revision date:

OUTPUTS

Identifier Replications	Average	Half-width	Minimum	Maximum	#
Entity 1.NumberIn	175.20	.49436	173.00	177.00	20
Entity 1.NumberOut	60.650	2.6746	50.000	71.000	20
Operador.TimesUsed	61.650	2.6746	51.000	72.000	20
Operador.ScheduledUtili	1.0000	.00000	1.0000	1.0000	20
System.NumberOut	60.650	2.6746	50.000	71.000	20

Simulation run time: 0.10 minutes.