

ARENA Simulation Results
 Joanna - License: STUDENT

Summary for Replication 1 of 20

Project: TELARES
 Analyst: JOANNA

Run execution date : 5/20/2003
 Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.6864	(Insuf)	1.2000	15.000	173
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	173
Entity 1.WaitTime	7.9782	(Insuf)	.00000	23.912	173
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	173
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	173
Entity 1.TotalTime	15.664	(Insuf)	1.2000	38.397	173
PROCESO.Queue.WaitingT	7.9589	(Insuf)	.00000	23.912	175

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	5.7087	(Corr)	.00000	13.000	2.0000
Operador.NumberBusy	2.8070	(Insuf)	.00000	3.0000	2.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.93568	(Insuf)	.00000	1.0000	.66667
PROCESO.Queue.NumberIn	2.9017	(Insuf)	.00000	10.000	.00000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	175.00
Entity 1.NumberOut	173.00
Operador.TimesUsed	175.00
Operador.ScheduledUtili	.93568
System.NumberOut	173.00

Beginning replication 2 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 2 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.9857	(Insuf)	1.2000	15.000	166
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	166
Entity 1.WaitTime	7.3370	(Insuf)	.00000	29.260	166
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	166
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	166
Entity 1.TotalTime	15.322	(Insuf)	1.2000	44.260	166
PROCESO.Queue.WaitingT	7.4786	(Insuf)	.00000	29.260	169

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	5.5282	(Corr)	.00000	12.000	9.0000
Operador.NumberBusy	2.7948	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.93161	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	2.7333	(Insuf)	.00000	9.0000	6.0000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	175.00
Entity 1.NumberOut	166.00
Operador.TimesUsed	169.00
Operador.ScheduledUtili	.93161
System.NumberOut	166.00

Beginning replication 3 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 3 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.1829	(Insuf)	1.2000	15.000	171
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	171
Entity 1.WaitTime	4.2482	(Insuf)	.00000	25.300	171
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	171
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	171
Entity 1.TotalTime	11.431	(Insuf)	1.2000	40.100	171
PROCESO.Queue.WaitingT	4.2867	(Insuf)	.00000	25.300	174

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	4.1551	.78180	.00000	12.000	5.0000
Operador.NumberBusy	2.5912	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.86374	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	1.5639	(Insuf)	.00000	9.0000	2.0000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	171.00
Operador.TimesUsed	174.00
Operador.ScheduledUtili	.86374
System.NumberOut	171.00

Beginning replication 4 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 4 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.7782	(Insuf)	1.2000	15.000	169
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	169
Entity 1.WaitTime	5.1345	(Insuf)	.00000	24.330	169
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	169
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	169
Entity 1.TotalTime	12.912	(Insuf)	1.2000	39.330	169
PROCESO.Queue.WaitingT	5.1529	(Insuf)	.00000	24.330	172

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	4.6565	(Corr)	.00000	13.000	5.0000
Operador.NumberBusy	2.7911	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.93039	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	1.8654	(Insuf)	.00000	10.000	2.0000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	174.00
Entity 1.NumberOut	169.00
Operador.TimesUsed	172.00
Operador.ScheduledUtili	.93039
System.NumberOut	169.00

Beginning replication 5 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 5 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.9924	(Insuf)	1.2000	15.000	173
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	173
Entity 1.WaitTime	6.8685	(Insuf)	.00000	24.730	173
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	173
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	173
Entity 1.TotalTime	14.860	(Insuf)	1.8000	35.230	173
PROCESO.Queue.WaitingT	6.7921	(Insuf)	.00000	24.730	176

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	5.4125	(Corr)	.00000	12.000	3.0000
Operador.NumberBusy	2.9221	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.97403	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	2.4904	(Insuf)	.00000	9.0000	.00000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	173.00
Operador.TimesUsed	176.00
Operador.ScheduledUtili	.97403
System.NumberOut	173.00

Beginning replication 6 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 6 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.3462	(Insuf)	1.2000	15.000	174
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	174
Entity 1.WaitTime	5.6692	(Insuf)	.00000	29.600	174
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	174
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	174
Entity 1.TotalTime	13.015	(Insuf)	1.2000	44.460	174
PROCESO.Queue.WaitingT	5.6077	(Insuf)	.00000	29.600	176

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	4.7349	(Corr)	.00000	12.000	2.0000
Operador.NumberBusy	2.6787	(Insuf)	.00000	3.0000	2.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.89290	(Insuf)	.00000	1.0000	.66667
PROCESO.Queue.NumberIn	2.0561	(Insuf)	.00000	9.0000	.00000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	174.00
Operador.TimesUsed	176.00
Operador.ScheduledUtili	.89290
System.NumberOut	174.00

Beginning replication 7 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 7 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	8.0816	(Insuf)	1.2000	15.000	166
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	166
Entity 1.WaitTime	7.2469	(Insuf)	.00000	24.217	166
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	166
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	166
Entity 1.TotalTime	15.328	(Insuf)	1.2000	32.922	166
PROCESO.Queue.WaitingT	7.2358	(Insuf)	.00000	24.217	169

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	5.4783	.59454	.00000	12.000	7.0000
Operador.NumberBusy	2.8513	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.95044	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	2.6270	(Insuf)	.00000	9.0000	4.0000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	173.00
Entity 1.NumberOut	166.00
Operador.TimesUsed	169.00
Operador.ScheduledUtili	.95044
System.NumberOut	166.00

Beginning replication 8 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 8 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.9717	(Insuf)	1.2000	15.000	168
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	168
Entity 1.WaitTime	6.5256	(Insuf)	.00000	26.130	168
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	168
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	168
Entity 1.TotalTime	14.497	(Insuf)	1.2000	33.413	168
PROCESO.Queue.WaitingT	6.5712	(Insuf)	.00000	26.130	171

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	5.2230	(Corr)	.00000	12.000	8.0000
Operador.NumberBusy	2.8234	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.94114	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	2.3996	(Insuf)	.00000	9.0000	5.0000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	168.00
Operador.TimesUsed	171.00
Operador.ScheduledUtili	.94114
System.NumberOut	168.00

Beginning replication 9 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 9 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.7585	(Insuf)	1.2000	15.000	172
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	172
Entity 1.WaitTime	5.5220	(Insuf)	.00000	25.300	172
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	172
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	172
Entity 1.TotalTime	13.280	(Insuf)	1.2000	37.000	172
PROCESO.Queue.WaitingT	5.4446	(Insuf)	.00000	25.300	175

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	4.8026	.65395	.00000	12.000	4.0000
Operador.NumberBusy	2.8099	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.93664	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	1.9927	(Insuf)	.00000	9.0000	1.0000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	172.00
Operador.TimesUsed	175.00
Operador.ScheduledUtili	.93664
System.NumberOut	172.00

Beginning replication 10 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 10 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.5261	(Insuf)	1.2000	15.000	167
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	167
Entity 1.WaitTime	5.4734	(Insuf)	.00000	30.700	167
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	167
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	167
Entity 1.TotalTime	12.999	(Insuf)	1.2000	37.030	167
PROCESO.Queue.WaitingT	5.6064	(Insuf)	.00000	30.700	170

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	4.7279	(Corr)	.00000	12.000	7.0000
Operador.NumberBusy	2.6504	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.88347	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	2.0775	(Insuf)	.00000	9.0000	4.0000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	174.00
Entity 1.NumberOut	167.00
Operador.TimesUsed	170.00
Operador.ScheduledUtili	.88347
System.NumberOut	167.00

Beginning replication 11 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 11 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.3892	(Insuf)	1.2000	15.000	172
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	172
Entity 1.WaitTime	4.3581	(Insuf)	.00000	21.400	172
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	172
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	172
Entity 1.TotalTime	11.747	(Insuf)	1.2000	29.386	172
PROCESO.Queue.WaitingT	4.2839	(Insuf)	.00000	21.400	175

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	4.2517	.62858	.00000	12.000	3.0000
Operador.NumberBusy	2.6898	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.89662	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	1.5618	(Insuf)	.00000	9.0000	.00000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	175.00
Entity 1.NumberOut	172.00
Operador.TimesUsed	175.00
Operador.ScheduledUtili	.89662
System.NumberOut	172.00

Beginning replication 12 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 12 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	8.0644	(Insuf)	1.2000	15.000	170
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	170
Entity 1.WaitTime	10.322	(Insuf)	.00000	27.100	170
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	170
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	170
Entity 1.TotalTime	18.386	(Insuf)	1.2000	37.600	170
PROCESO.Queue.WaitingT	10.297	(Insuf)	.00000	27.100	173

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	6.6121	(Corr)	.00000	12.000	7.0000
Operador.NumberBusy	2.8920	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.96401	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	3.7201	(Insuf)	.00000	9.0000	4.0000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	177.00
Entity 1.NumberOut	170.00
Operador.TimesUsed	173.00
Operador.ScheduledUtili	.96401
System.NumberOut	170.00

Beginning replication 13 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 13 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.3279	(Insuf)	1.2000	15.000	173
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	173
Entity 1.WaitTime	6.5050	(Insuf)	.00000	27.130	173
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	173
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	173
Entity 1.TotalTime	13.833	(Insuf)	1.2000	41.930	173
PROCESO.Queue.WaitingT	6.4029	(Insuf)	.00000	27.130	176

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	5.0096	(Corr)	.00000	14.000	3.0000
Operador.NumberBusy	2.6619	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.88730	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	2.3477	(Insuf)	.00000	11.000	.00000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	173.00
Operador.TimesUsed	176.00
Operador.ScheduledUtili	.88730
System.NumberOut	173.00

Beginning replication 14 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 14 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	8.4240	(Insuf)	1.2000	15.000	166
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	166
Entity 1.WaitTime	13.331	(Insuf)	.00000	28.947	166
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	166
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	166
Entity 1.TotalTime	21.755	(Insuf)	1.2000	41.946	166
PROCESO.Queue.WaitingT	13.446	(Insuf)	.00000	28.947	169

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	7.8240	(Corr)	.00000	14.000	10.000
Operador.NumberBusy	2.9434	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.98114	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	4.8805	(Insuf)	.00000	11.000	7.0000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	166.00
Operador.TimesUsed	169.00
Operador.ScheduledUtili	.98114
System.NumberOut	166.00

Beginning replication 15 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 15 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	6.8748	(Insuf)	1.2000	15.000	171
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	171
Entity 1.WaitTime	3.0736	(Insuf)	.00000	18.905	171
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	171
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	171
Entity 1.TotalTime	9.9485	(Insuf)	1.2000	33.705	171
PROCESO.Queue.WaitingT	3.0306	(Insuf)	.00000	18.905	174

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	3.5842	.59084	.00000	12.000	3.0000
Operador.NumberBusy	2.4856	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.82853	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	1.0986	(Insuf)	.00000	9.0000	.00000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	174.00
Entity 1.NumberOut	171.00
Operador.TimesUsed	174.00
Operador.ScheduledUtili	.82853
System.NumberOut	171.00

Beginning replication 16 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 16 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	8.7731	(Insuf)	1.2000	15.000	161
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	161
Entity 1.WaitTime	23.875	(Insuf)	.00000	40.344	161
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	161
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	161
Entity 1.TotalTime	32.648	(Insuf)	6.3300	55.144	161
PROCESO.Queue.WaitingT	24.035	(Insuf)	.00000	40.344	164

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	11.585	(Corr)	.00000	17.000	15.000
Operador.NumberBusy	3.0000	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	1.0000	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	8.5851	(Corr)	.00000	14.000	12.000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	161.00
Operador.TimesUsed	164.00
Operador.ScheduledUtili	1.0000
System.NumberOut	161.00

Beginning replication 17 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 17 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	8.5746	(Insuf)	1.2000	15.000	160
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	160
Entity 1.WaitTime	12.869	(Insuf)	.00000	39.367	160
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	160
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	160
Entity 1.TotalTime	21.443	(Insuf)	1.8000	52.619	160
PROCESO.Queue.WaitingT	13.240	(Insuf)	.00000	39.367	163

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	7.7373	(Corr)	.00000	18.000	14.000
Operador.NumberBusy	2.8769	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.95897	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	4.8604	(Insuf)	.00000	15.000	11.000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	174.00
Entity 1.NumberOut	160.00
Operador.TimesUsed	163.00
Operador.ScheduledUtili	.95897
System.NumberOut	160.00

Beginning replication 18 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 18 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.7269	(Insuf)	1.2000	15.000	173
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	173
Entity 1.WaitTime	7.0012	(Insuf)	.00000	22.958	173
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	173
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	173
Entity 1.TotalTime	14.728	(Insuf)	1.4099	36.248	173
PROCESO.Queue.WaitingT	6.9499	(Insuf)	.00000	22.958	175

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	5.3478	(Corr)	.00000	12.000	2.0000
Operador.NumberBusy	2.8139	(Insuf)	.00000	3.0000	2.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.93799	(Insuf)	.00000	1.0000	.66667
PROCESO.Queue.NumberIn	2.5338	(Insuf)	.00000	9.0000	.00000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	175.00
Entity 1.NumberOut	173.00
Operador.TimesUsed	175.00
Operador.ScheduledUtili	.93799
System.NumberOut	173.00

Beginning replication 19 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 19 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.8069	(Insuf)	1.2000	15.000	169
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	169
Entity 1.WaitTime	8.8344	(Insuf)	.00000	37.000	169
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	169
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	169
Entity 1.TotalTime	16.641	(Insuf)	1.2000	44.600	169
PROCESO.Queue.WaitingT	8.8316	(Insuf)	.00000	37.000	172

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	5.9341	(Corr)	.00000	14.000	5.0000
Operador.NumberBusy	2.7599	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.91998	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	3.1742	(Insuf)	.00000	11.000	2.0000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	174.00
Entity 1.NumberOut	169.00
Operador.TimesUsed	172.00
Operador.ScheduledUtili	.91998
System.NumberOut	169.00

Beginning replication 20 of 20

ARENA Simulation Results
Joanna - License: STUDENT

Summary for Replication 20 of 20

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

Replication ended at time : 480.0

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	7.2592	(Insuf)	1.2000	15.000	173
Entity 1.NVATime	.00000	(Insuf)	.00000	.00000	173
Entity 1.WaitTime	4.9632	(Insuf)	.00000	24.600	173
Entity 1.TranTime	.00000	(Insuf)	.00000	.00000	173
Entity 1.OtherTime	.00000	(Insuf)	.00000	.00000	173
Entity 1.TotalTime	12.222	(Insuf)	1.2000	30.930	173
PROCESO.Queue.WaitingT	4.8786	(Insuf)	.00000	24.600	176

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	4.4265	.75939	.00000	12.000	3.0000
Operador.NumberBusy	2.6377	(Insuf)	.00000	3.0000	3.0000
Operador.NumberSchedul	3.0000	(Insuf)	3.0000	3.0000	3.0000
Operador.Utilization	.87924	(Insuf)	.00000	1.0000	1.0000
PROCESO.Queue.NumberIn	1.7888	(Insuf)	.00000	9.0000	.00000

OUTPUTS

Identifier	Value
Entity 1.NumberIn	176.00
Entity 1.NumberOut	173.00
Operador.TimesUsed	176.00
Operador.ScheduledUtili	.87924
System.NumberOut	173.00

ARENA Simulation Results
Joanna

Output Summary for 20 Replications

Project:TELARES
Analyst:JOANNA

Run execution date : 5/20/2003
Model revision date: 5/20/2003

OUTPUTS

Identifier	Average	Half-width	Minimum	Maximum	# Replications
Entity 1.NumberIn	175.20	.49436	173.00	177.00	20
Entity 1.NumberOut	169.35	1.8798	160.00	174.00	20
Operador.TimesUsed	172.20	1.8132	163.00	176.00	20
Operador.ScheduledUtili	.92469	.02021	.82853	1.0000	20
System.NumberOut	169.35	1.8798	160.00	174.00	20

Simulation run time: 0.10 minutes.
Simulation run complete.