Summary for Replication 1 of 10

Project: Unnamed Project

Analyst: Authorized User

Run execution date: 3/11/2020

Model revision date: 3/11/2020

Replication ended at time : 12.0 Hours

Base Time Units: Hours

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	.02497	4.0355E-04	.00852	.11501	3586
Entity 1.VATIME Entity 1.NVATime	.00000	.00000	.00000	.00000	3586
Entity 1.WaitTime	.03270	.00778	.00000	.11405	3586
Entity 1.TranTime	.00000	.00000	.00000	.00000	3586
Entity 1.OtherTime	.00000	.00000	.00000	.00000	3586
Entity 1.TotalTime	.05767	.00796	.01003	.16959	3586
ID and boarding pass check.Queue.WaitingTi	.02770	.00766	.00000	.10440	3595
Scanner3.Queue.WaitingTime	.00729	.00144	.00000	.07574	811
Scanner2.Queue.WaitingTime	.00393	7.5648E-04	.00000	.04281	1682
Scanner1.Queue.WaitingTime	.00473	.00127	.00000	.04372	1097

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	17.246	2.6418	.00000	45.000	9.0000
Resource 1.NumberBusy	3.7274	.11416	.00000	4.0000	3.0000
Resource 1.NumberScheduled	4.0000	(Insuf)	4.0000	4.0000	4.0000
Resource 1.Utilization	.93187	.02854	.00000	1.0000	.75000
Scanner 1.NumberBusy	1.1385	.08185	.00000	2.0000	1.0000
Scanner 1.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
Scanner 1.Utilization	.56927	.04093	.00000	1.0000	.50000
Scanner 3.NumberBusy	.83816	.02999	.00000	1.0000	1.0000
Scanner 3.NumberScheduled	1.0000	(Insuf)	1.0000	1.0000	1.0000
Scanner 3.Utilization	.83816	.02999	.00000	1.0000	1.0000
Scanner 2.NumberBusy	1.7661	.02344	.00000	2.0000	2.0000
Scanner 2.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
Scanner 2.Utilization	.88305	.01172	.00000	1.0000	1.0000
ID and boarding pass check.Queue.NumberInQ	8.2996	2.4434	.00000	37.000	.00000
Scanner3.Queue.NumberInQueue	.49282	.08143	.00000	6.0000	1.0000
Scanner2.Queue.NumberInQueue	.55143	.08937	.00000	7.0000	1.0000
Scanner1.Queue.NumberInQueue	.43204	.11615	.00000	7.0000	.00000

Identifier	Value				
Parking 1 Mark out	2505.0				
Entity 1.NumberIn Entity 1.NumberOut	3595.0 3586.0				
Resource 1.NumberSeized	3595.0				
Resource 1.ScheduledUtilization	.93187				
Scanner 1. Number Seized	1097.0				
Scanner 1. Scheduled Utilization	.56927				
Scanner 3. NumberSeized	811.00				
Scanner 3. Scheduled Utilization	.83816				
Scanner 2.NumberSeized	1682.0				
Scanner 2. Scheduled Utilization	.88305				
System.NumberOut	3586.0				
of seem Managerous	3000.0				
Beginning replication 2 of 10					
		_			
ARENA		on Results			
	Authorize	d User			
Commoner	For Donlie	ntion 2 of 10			
Summary 1	or kepiic	ation 2 of 10			
Project: Unnamed Project			Dun or	xecution dat	+
Analyst: Authorized User				revision da	-
Analyst: Authorized User			Model	revision da	ate: 3/11
Replication ended at time : 12.0 Hours Base Time Units: Hours	3				
Replication ended at time : 12.0 Hours	TALLY VAR	IABLES			
Replication ended at time : 12.0 Hours		IABLES Half Width	Minimum	Maximum	Observa
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier	TALLY VAR	Half Width			
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime	TALLY VAR Average .02478	Half Width 3.4652E-04	.00845	.11882	3531
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime	TALLY VAR Average .02478 .00000	Half Width 3.4652E-04 .00000	.00845	.11882	3531 3531
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime	TALLY VAR Average .02478 .00000 .02835	Half Width 3.4652E-04 .00000 .00888	.00845	.11882 .00000 .11998	3531 3531 3531
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime Entity 1.TranTime	TALLY VAR Average .02478 .00000 .02835 .00000	Half Width 3.4652E-04 .00000 .00888 .00000	.00845 .00000 .00000	.11882 .00000 .11998 .00000	3531 3531 3531 3531
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime Entity 1.TranTime Entity 1.OtherTime	TALLY VAR Average .02478 .00000 .02835 .00000 .00000	Half Width 3.4652E-04 .00000 .00888 .00000 .00000	.00845 .00000 .00000 .00000	.11882 .00000 .11998 .00000	3531 3531 3531 3531 3531
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime Entity 1.TranTime Entity 1.TranTime Entity 1.OtherTime Entity 1.TotalTime	TALLY VAR Average .02478 .00000 .02835 .00000 .00000 .05313	3.4652E-04 .00000 .00888 .00000 .00000	.00845 .00000 .00000 .00000 .00000 .00872	.11882 .00000 .11998 .00000 .00000	3531 3531 3531 3531 3531
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime Entity 1.TranTime Entity 1.TranTime Entity 1.TotalTime ID and boarding pass check.Queue.WaitingTi	TALLY VAR Average .02478 .00000 .02835 .00000 .00000 .05313 .02414	Half Width 3.4652E-04 .00000 .00888 .00000 .00000 .00910 .00870	.00845 .00000 .00000 .00000 .00000 .00872 .00000	.11882 .00000 .11998 .00000 .00000 .17159 .10624	3531 3531 3531 3531 3531 3531
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime Entity 1.TranTime Entity 1.TranTime Entity 1.TotalTime ID and boarding pass check.Queue.WaitingTi Scanner3.Queue.WaitingTime	TALLY VAR Average .02478 .00000 .02835 .00000 .00000 .05313 .02414 .00641	3.4652E-04 .00000 .00888 .00000 .00000 .00910 .00870 4.4958E-04	.00845 .00000 .00000 .00000 .00000 .00872 .00000	.11882 .00000 .11998 .00000 .00000 .17159 .10624 .03409	3531 3531 3531 3531 3531 3541 802
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime Entity 1.TranTime Entity 1.TranTime Entity 1.TotalTime ID and boarding pass check.Queue.WaitingTi	TALLY VAR Average .02478 .00000 .02835 .00000 .00000 .05313 .02414	Half Width 3.4652E-04 .00000 .00888 .00000 .00000 .00910 .00870	.00845 .00000 .00000 .00000 .00000 .00872 .00000 .00000	.11882 .00000 .11998 .00000 .00000 .17159 .10624	3531 3531 3531 3531 3531 3541 802 1686
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime Entity 1.TranTime Entity 1.TranTime Entity 1.TotalTime ID and boarding pass check.Queue.WaitingTi Scanner3.Queue.WaitingTime Scanner2.Queue.WaitingTime Scanner1.Queue.WaitingTime	TALLY VAR Average .02478 .00000 .02835 .00000 .005313 .02414 .00641 .00345 .00416	3.4652E-04 .00000 .00888 .00000 .00000 .00910 .00870 4.4958E-04 2.6615E-04	.00845 .00000 .00000 .00000 .00000 .00872 .00000 .00000	.11882 .00000 .11998 .00000 .00000 .17159 .10624 .03409 .01965	3531 3531 3531 3531 3531 3541 802 1686
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime Entity 1.TranTime Entity 1.TranTime Entity 1.TotalTime ID and boarding pass check.Queue.WaitingTi Scanner3.Queue.WaitingTime Scanner2.Queue.WaitingTime Scanner1.Queue.WaitingTime DISCRE	TALLY VAR Average .02478 .00000 .02835 .00000 .005313 .02414 .00641 .00345 .00416 ETE-CHANGE	Half Width 3.4652E-04 .00000 .00888 .00000 .00910 .00870 4.4958E-04 2.6615E-04 7.1344E-04 VARIABLES	.00845 .00000 .00000 .00000 .00000 .00872 .00000 .00000	.11882 .00000 .11998 .00000 .00000 .17159 .10624 .03409 .01965 .02539	3531 3531 3531 3531 3531 3541 802 1686 1048
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime Entity 1.TranTime Entity 1.TranTime Entity 1.TotalTime ID and boarding pass check.Queue.WaitingTi Scanner3.Queue.WaitingTime Scanner2.Queue.WaitingTime Scanner1.Queue.WaitingTime	TALLY VAR Average .02478 .00000 .02835 .00000 .005313 .02414 .00641 .00345 .00416	Half Width 3.4652E-04 .00000 .00888 .00000 .00000 .00910 .00870 4.4958E-04 2.6615E-04 7.1344E-04	.00845 .00000 .00000 .00000 .00000 .00872 .00000 .00000	.11882 .00000 .11998 .00000 .00000 .17159 .10624 .03409 .01965	3531 3531 3531 3531 3531 3541 802 1686 1048
Replication ended at time : 12.0 Hours Base Time Units: Hours Identifier Entity 1.VATime Entity 1.NVATime Entity 1.WaitTime Entity 1.TranTime Entity 1.TranTime Entity 1.TotalTime ID and boarding pass check.Queue.WaitingTi Scanner3.Queue.WaitingTime Scanner2.Queue.WaitingTime Scanner1.Queue.WaitingTime DISCRE	TALLY VAR Average .02478 .00000 .02835 .00000 .005313 .02414 .00641 .00345 .00416 ETE-CHANGE	Half Width 3.4652E-04 .00000 .00888 .00000 .00910 .00870 4.4958E-04 2.6615E-04 7.1344E-04 VARIABLES	.00845 .00000 .00000 .00000 .00000 .00872 .00000 .00000	.11882 .00000 .11998 .00000 .00000 .17159 .10624 .03409 .01965 .02539	Observa 3531 3531 3531 3531 3531 3541 802 1686 1048 Final V

```
105
      Resource 1.NumberScheduled
                                                   4.0000
                                                               (Insuf)
                                                                          4.0000
                                                                                     4.0000
                                                                                                4.0000
      Resource 1.Utilization
                                                   .90371
                                                               .03566
                                                                          .00000
106
                                                                                     1.0000
                                                                                                1.0000
107
      Scanner 1.NumberBusy
                                                   1.0924
                                                               .07467
                                                                          .00000
                                                                                     2.0000
                                                                                                2.0000
108
      Scanner 1. Number Scheduled
                                                   2.0000
                                                               (Insuf)
                                                                          2.0000
                                                                                     2.0000
                                                                                                2.0000
109
      Scanner 1.Utilization
                                                   .54623
                                                               .03733
                                                                         .00000
                                                                                     1.0000
                                                                                                1.0000
110
      Scanner 3.NumberBusy
                                                   .82896
                                                               .02482
                                                                          .00000
                                                                                     1.0000
                                                                                                1.0000
111
      Scanner 3. Number Scheduled
                                                   1.0000
                                                               (Insuf)
                                                                          1.0000
                                                                                     1.0000
                                                                                                1.0000
112
      Scanner 3.Utilization
                                                   .82896
                                                               .02482
                                                                          .00000
                                                                                     1.0000
                                                                                                1.0000
                                                               .02514
113
      Scanner 2.NumberBusy
                                                   1.7658
                                                                          .00000
                                                                                     2.0000
                                                                                                2.0000
                                                   2.0000
114
      Scanner 2.NumberScheduled
                                                                          2.0000
                                                               (Insuf)
                                                                                     2.0000
                                                                                                2.0000
115
      Scanner 2.Utilization
                                                   .88292
                                                               .01257
                                                                          .00000
                                                                                     1.0000
                                                                                                1.0000
      ID and boarding pass check.Queue.NumberInQ 7.1699
116
                                                               2.8660
                                                                          .00000
                                                                                     32.000
                                                                                                14.000
      Scanner3.Queue.NumberInQueue
                                                   .42820
                                                               .02900
117
                                                                          .00000
                                                                                     3.0000
                                                                                                 .00000
118
      Scanner2. Oueue. Number In Oueue
                                                   .48525
                                                               .03523
                                                                          .00000
                                                                                     3.0000
                                                                                                 .00000
119
      Scanner1.Queue.NumberInQueue
                                                   .36357
                                                               .06667
                                                                          .00000
                                                                                     4.0000
                                                                                                1.0000
120
121
                                                    OUTPUTS
122
123
      Identifier
                                                    Value
124
125
126
      Entity 1.NumberIn
                                                   3555.0
127
      Entity 1.NumberOut
                                                   3531.0
128
      Resource 1.NumberSeized
                                                   3541.0
129
      Resource 1.ScheduledUtilization
                                                   .90371
                                                   1048.0
130
      Scanner 1.NumberSeized
131
      Scanner 1. Scheduled Utilization
                                                   .54623
132
      Scanner 3. NumberSeized
                                                   802.00
133
      Scanner 3. Scheduled Utilization
                                                   .82896
1.34
      Scanner 2. Number Seized
                                                   1686.0
135
      Scanner 2.ScheduledUtilization
                                                   .88292
136
      System.NumberOut
                                                   3531.0
137
138
      Beginning replication 3 of 10
139
140
                                             ARENA Simulation Results
141
                                                  Authorized User
142
143
                                         Summary for Replication 3 of 10
144
145
      Project: Unnamed Project
                                                                             Run execution date: 3/11/2020
146
      Analyst: Authorized User
                                                                             Model revision date: 3/11/2020
147
148
      Replication ended at time
                                   : 12.0 Hours
149
      Base Time Units: Hours
150
151
                                                  TALLY VARIABLES
152
153
      Identifier
                                                   Average
                                                             Half Width Minimum
                                                                                     Maximum
                                                                                               Observations
154
155
156
      Entity 1.VATime
                                                   .02455
                                                               4.0175E-04 .00853
                                                                                     .18314
                                                                                                   3550
```

Entity 1.NVATime .00000 3550 157 .00000 .00000 .00000 158 Entity 1.WaitTime .02501 .00000 .12523 3550 (Corr) 159 Entity 1.TranTime .00000 .00000 .00000 .00000 3550 160 Entity 1.OtherTime .00000 .00000 .00000 .00000 3550 161 Entity 1.TotalTime .04956 (Corr) .00900 .19478 3550 ID and boarding pass check.Queue.WaitingTi 162 .02040 (Corr) .00000 .11243 3565 163 Scanner3.Queue.WaitingTime .00678 4.8889E-04 .00000 .04610 795 164 Scanner2.Queue.WaitingTime .00361 3.2796E-04 .00000 .03089 1676 1084 165 Scanner1.Queue.WaitingTime .00455 4.9152E-04 .00000 .02939 166 167 DISCRETE-CHANGE VARIABLES 168 169 Identifier Average Half Width Minimum Maximum Final Value 170 171 172 Entity 1.WIP 14.710 2.5677 .00000 48.000 17.000 173 Resource 1.NumberBusy 3.5870 .13034 .00000 4.0000 4.0000 Resource 1.NumberScheduled 174 4.0000 (Insuf) 4.0000 4.0000 4.0000 175 Resource 1.Utilization .89676 .03259 .00000 1.0000 1.0000 176 Scanner 1.NumberBusy 1.1247 .06737 .00000 2.0000 2.0000 177 Scanner 1.NumberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 178 Scanner 1.Utilization .56235 .03369 .00000 1.0000 1.0000 179 Scanner 3.NumberBusy .81649 .02568 .00000 1.0000 1.0000 180 Scanner 3. Number Scheduled 1.0000 (Insuf) 1.0000 1.0000 1.0000 181 Scanner 3.Utilization .81649 .02568 .00000 1.0000 1.0000 182 Scanner 2.NumberBusy .03202 2.0000 1.7515 .00000 2.0000 183 Scanner 2. Number Scheduled 2.0000 2.0000 2.0000 (Insuf) 2.0000 184 Scanner 2.Utilization .87575 .01601 .00000 1.0000 1.0000 6.0629 185 ID and boarding pass check. Oueue. Number In O 2.3547 .00000 40.000 2.0000 186 Scanner3.Queue.NumberInQueue .45031 .04647 .00000 4.0000 1.0000 187 Scanner2.Oueue.NumberInOueue .50511 .06043 .00000 5.0000 2.0000 188 Scanner1. Oueue. Number In Oueue .41265 .08263 .00000 5.0000 3.0000 189 190 OUTPUTS 191 Identifier 192 Value

raciferre	Value
Entity 1.NumberIn	3567.0
Entity 1.NumberOut	3550.0
Resource 1.NumberSeized	3565.0
Resource 1.ScheduledUtilization	.89676
Scanner 1.NumberSeized	1084.0
Scanner 1.ScheduledUtilization	.56235
Scanner 3.NumberSeized	795.00
Scanner 3.ScheduledUtilization	.81649
Scanner 2.NumberSeized	1676.0
Scanner 2.ScheduledUtilization	.87575
System.NumberOut	3550.0

Beginning replication 4 of 10

207208

Summary for Replication 4 of 10

Project: Unnamed Project Analyst: Authorized User Run execution date: 3/11/2020

215 Analyst: Authorized Use 216

Model revision date: 3/11/2020

217 Replication ended at time : 12.0 Hours

218 Base Time Units: Hours

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Patitus 1 vanis	02402	4 61550 04	00054	11720	2550
Entity 1.VATime	.02493	4.6155E-04	.00854	.11738	3559
Entity 1.NVATime	.00000	.00000	.00000	.00000	3559
<pre>Entity 1.WaitTime</pre>	.03152	(Corr)	.00000	.11184	3559
Entity 1.TranTime	.00000	.00000	.00000	.00000	3559
Entity 1.OtherTime	.00000	.00000	.00000	.00000	3559
Entity 1.TotalTime	.05645	(Corr)	.00881	.18776	3559
ID and boarding pass check.Queue.WaitingTi	.02675	(Corr)	.00000	.10107	3564
Scanner3.Queue.WaitingTime	.00675	6.7140E-04	.00000	.04211	789
Scanner2.Queue.WaitingTime	.00367	3.9158E-04	.00000	.02503	1702
Scanner1.Queue.WaitingTime	.00492	7.5545E-04	.00000	.02997	1069

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
	1.6. 🗆 4.6	0.0105		41 000	
Entity 1.WIP	16.746	2.8195	.00000	41.000	5.0000
Resource 1.NumberBusy	3.6891	.11524	.00000	4.0000	4.0000
Resource 1.NumberScheduled	4.0000	(Insuf)	4.0000	4.0000	4.0000
Resource 1.Utilization	.92228	.02881	.00000	1.0000	1.0000
Scanner 1.NumberBusy	1.1201	.08743	.00000	2.0000	.00000
Scanner 1.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
Scanner 1.Utilization	.56006	.04371	.00000	1.0000	.00000
Scanner 3.NumberBusy	.81967	.03288	.00000	1.0000	.00000
Scanner 3.NumberScheduled	1.0000	(Insuf)	1.0000	1.0000	1.0000
Scanner 3.Utilization	.81967	.03288	.00000	1.0000	.00000
Scanner 2.NumberBusy	1.7694	.02381	.00000	2.0000	1.0000
Scanner 2.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
Scanner 2.Utilization	.88472	.01191	.00000	1.0000	.50000
ID and boarding pass check.Queue.NumberInQ	7.9452	2.5923	.00000	33.000	.00000
Scanner3.Queue.NumberInQueue	.44402	.04662	.00000	3.0000	.00000
Scanner2.Queue.NumberInQueue	.52053	.05552	.00000	3.0000	.00000
Scanner1.Queue.NumberInQueue	.43838	.10132	.00000	4.0000	.00000

OUTPUTS

261 262	Identifier	Value				
263 264	Entity 1.NumberIn	3564.0				
265	Entity 1.NumberOut	3559.0				
266	Resource 1.NumberSeized	3564.0				
267	Resource 1.ScheduledUtilization	.92228				
268	Scanner 1.NumberSeized	1069.0				
269	Scanner 1.ScheduledUtilization	.56006				
270	Scanner 3.NumberSeized	789.00				
271	Scanner 3.ScheduledUtilization	.81967				
272	Scanner 2. NumberSeized	1702.0				
273	Scanner 2.ScheduledUtilization	.88472				
274	System.NumberOut	3559.0				
275	o jo com Manuscrou c	3003.0				
276	Beginning replication 5 of 10					
277	boginning reprised to the re-					
278	ARENA	A Simulati	on Results			
279		Authorize				
280						
281	Summary	for Replic	ation 5 of 10			
282	-	-				
283	Project: Unnamed Project			Run ex	ecution dat	te : 3/11/2020
284	Analyst: Authorized User			Model	revision da	ate: 3/11/2020
285						
286	Replication ended at time : 12.0 Hours	5				
287	Base Time Units: Hours					
288						
289		TALLY VAR	IABLES			
290						
291	Identifier	Average	Half Width	Minimum	Maximum	Observations
292						
293						
294	Entity 1.VATime	.02482	4.7037E-04		.11985	3591
295	Entity 1.NVATime	.00000	.00000	.00000	.00000	3591
296	Entity 1.WaitTime	.03052	.00925	.00000	.14867	3591
297	Entity 1.TranTime	.00000	.00000	.00000	.00000	3591
298	Entity 1.OtherTime	.00000	.00000	.00000	.00000	3591
299	Entity 1.TotalTime	.05534	.00944	.00870	.20538	3591
300	ID and boarding pass check.Queue.WaitingTi			.00000	.14565	3598
301	Scanner3.Queue.WaitingTime	.00668	6.1055E-04		.04119	799
302	Scanner2.Queue.WaitingTime	.00349	2.6158E-04		.02559	1701
303	Scanner1.Queue.WaitingTime	.00399	6.7830E-04	.00000	.02342	1093

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP Resource 1.NumberBusy Resource 1.NumberScheduled	16.674	(Corr)	.00000	50.000	26.000
	3.7041	(Corr)	.00000	4.0000	4.0000
	4.0000	(Insuf)	4.0000	4.0000	4.0000

```
Scanner 1.NumberBusy
                                                   1.1325
                                                                          .00000
                                                                                     2.0000
314
                                                               (Corr)
                                                                                                 .00000
315
      Scanner 1.NumberScheduled
                                                   2.0000
                                                               (Insuf)
                                                                          2.0000
                                                                                     2.0000
                                                                                                 2.0000
316
      Scanner 1.Utilization
                                                   .56625
                                                               (Corr)
                                                                          .00000
                                                                                     1.0000
                                                                                                 .00000
317
      Scanner 3.NumberBusy
                                                   .83654
                                                               (Corr)
                                                                          .00000
                                                                                     1.0000
                                                                                                 .00000
318
      Scanner 3.NumberScheduled
                                                   1.0000
                                                               (Insuf)
                                                                          1.0000
                                                                                     1.0000
                                                                                                 1.0000
319
      Scanner 3.Utilization
                                                   .83654
                                                               (Corr)
                                                                          .00000
                                                                                     1.0000
                                                                                                 .00000
                                                   1.7655
320
      Scanner 2.NumberBusy
                                                              .02336
                                                                          .00000
                                                                                     2.0000
                                                                                                 2.0000
      Scanner 2.NumberScheduled
321
                                                   2.0000
                                                               (Insuf)
                                                                          2.0000
                                                                                     2.0000
                                                                                                 2.0000
322
      Scanner 2. Utilization
                                                   .88276
                                                              .01168
                                                                          .00000
                                                                                     1.0000
                                                                                                 1.0000
323
      ID and boarding pass check.Queue.NumberInQ 7.9313
                                                               (Corr)
                                                                          .00000
                                                                                     43.000
                                                                                                19.000
      Scanner3.Queue.NumberInQueue
                                                               .03572
324
                                                   .44454
                                                                          .00000
                                                                                     3.0000
                                                                                                 .00000
325
      Scanner2.Queue.NumberInQueue
                                                               .04268
                                                   .49576
                                                                          .00000
                                                                                     4.0000
                                                                                                1.0000
326
      Scanner1.Queue.NumberInQueue
                                                   .36381
                                                                          .00000
                                                                                     4.0000
                                                                                                 .00000
                                                               (Corr)
327
328
                                                    OUTPUTS
329
330
      Identifier
                                                    Value
331
332
333
      Entity 1.NumberIn
                                                   3617.0
334
      Entity 1.NumberOut
                                                   3591.0
335
      Resource 1.NumberSeized
                                                   3598.0
336
      Resource 1.ScheduledUtilization
                                                   .92605
337
      Scanner 1. Number Seized
                                                   1093.0
      Scanner 1. Scheduled Utilization
                                                   .56625
338
339
      Scanner 3. Number Seized
                                                   799.00
340
      Scanner 3. Scheduled Utilization
                                                   .83654
341
      Scanner 2.NumberSeized
                                                   1701.0
      Scanner 2.ScheduledUtilization
                                                   .88276
342
343
      System.NumberOut
                                                   3591.0
344
345
      Beginning replication 6 of 10
346
347
                                             ARENA Simulation Results
348
                                                  Authorized User
349
350
                                         Summary for Replication 6 of 10
351
352
      Project: Unnamed Project
                                                                             Run execution date: 3/11/2020
353
      Analyst: Authorized User
                                                                             Model revision date: 3/11/2020
354
355
      Replication ended at time
                                    : 12.0 Hours
356
      Base Time Units: Hours
357
358
                                                  TALLY VARIABLES
359
360
      Identifier
                                                             Half Width Minimum
                                                                                     Maximum
                                                                                               Observations
                                                   Average
361
362
363
                                                   .02500
      Entity 1.VATime
                                                              4.7237E-04 .00843
                                                                                     .14299
                                                                                                   3696
364
      Entity 1.NVATime
                                                   .00000
                                                               .00000
                                                                          .00000
                                                                                     .00000
                                                                                                   3696
```

.92605

(Corr)

.00000

1.0000

1.0000

313

Resource 1.Utilization

## Second Color	365	Entity 1.WaitTime	.05782	(Corr)	.00000	.21619	3696
### Sentity 1.chestime				•		.00000	
Resource NumberScheduled 0.8282							
10 and boarding pass check.Queue.WaitingTim .05265 (Corr) .00000 .00837 3705 3705 8canner2.Queue.WaitingTime .00395 3.7587B-04 .00000 .02513 1710							
Scanner3.Queue.WaitingTime							
Scanner2.Queue.WaitingTime							
Scanner1.Queue.WaitingTime							
DISCRETE-CHANGE VARIABLES DISCRETE-CHANGE VARIABLES DISCRETE-CHANGE VARIABLES DISCRETE-CHANGE VARIABLES DISCRETE-CHANGE VARIABLES DISCRETE-CHANGE VARIABLES DISCRETE DIS							
Identifier Average		~ 3					
Identifier		DISCRE	TE-CHANGE	VARIABLES			
### Partity 1.WIP		Idontifion	A	ualf w¦d+b	Minimum	Marrimum	Einal Value
Second		identifier	Average	Hall Width	MITITIIIUIII	MaxIIIIIIII	final value
Resource 1.NumberBusy							
Resource 1.NumberScheduled							
Resource Jutilization 96709 .02313 .00000 1.0000 1.0000 383 Scanner 1.NumberBusy 1.2243 .08510 .00000 2.0000 2.0000 .00000 384 Scanner 1.NumberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 385 Scanner 1.Utilization .61216 .04255 .00000 1.0000 .00000 386 Scanner 3.NumberScheduled 1.0000 (Insuf) 1.0000 1.0000 1.0000 387 Scanner 3.NumberScheduled 1.0000 (Insuf) 1.0000 1.0000 1.0000 388 Scanner 3.NumberScheduled 1.0000 (Insuf) 1.0000 1.0000 1.0000 389 Scanner 2.NumberBusy 1.7811 .03174 .00000 2.0000 2.0000 390 Scanner 2.NumberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 391 Scanner 2.NumberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 392 ID and boarding pass check.Queue.NumberInQ 16.255 (Corr) .00000 63.000 3.0000 393 Scanner3.Queue.NumberInQueue .56227 .05496 .00000 4.0000 1.0000 395 Scanner2.Queue.NumberInQueue .56227 .05496 .00000 4.0000 1.0000 396 Scanner1.Queue.NumberInQueue .56227 .05496 .00000 5.0000 .00000 397 398 399 Identifier Value 3696.0 3705.0 3696.0							
Scanner 1.NumbersDasy							
Scanner 1.NumberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 385 Scanner 1.Utilization 61216 0.04255 0.0000 1.0000 1.0000 1.0000 386 Scanner 3.NumberBusy 8.83476 0.03190 0.00000 1.0000 1.0000 1.0000 387 Scanner 3.NumberScheduled 1.0000 (Insuf) 1.0000 1.0000 1.0000 388 Scanner 2.NumberBusy 1.7811 0.03190 0.0000 2.0000 2.0000 399 Scanner 2.NumberBusy 1.7811 0.03174 0.0000 2.0000 2.0000 390 Scanner 2.NumberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 390 Scanner 2.NumberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 391 Scanner 2.NumberScheduled 3.0000 (Insuf) 2.0000 3.0000 3.0000 391 Scanner 3.0ue. NumberInQueue 4.7974 0.04119 0.0000 63.000 3.0000 3.0000 393 Scanner3.Queue. NumberInQueue 4.7974 0.04119 0.0000 4.0000 1.0000 3.							
Scanner 1.0tilization .61216 .04255 .00000 1.0000 .00000		<u> -</u>					
Scanner 3.NumberBusy .83476 .03190 .00000 1.0000 1.0000 1.0000 387 Scanner 3.NumberScheduled 1.0000 (Insuf) 1.0000 1.0000 1.0000 388 Scanner 3.NumberBusy 1.7811 .03174 .00000 2.0000 2.0000 2.0000 389 Scanner 2.NumberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 390 Scanner 2.NumberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 391 Scanner 2.Utilization .89060 .01587 .00000 1.0000 1.0000 392 ID and boarding pass check.Queue.NumberInQ 16.255 (Corr) .00000 63.000 3.0000 393 Scanner3.Queue.NumberInQueue .47974 .04119 .00000 4.0000 1.0000 394 Scanner2.Queue.NumberInQueue .56227 .05496 .00000 4.0000 1.0000 395 Scanner1.Queue.NumberInQueue .51916 .07420 .00000 5.0000 .00000 396 397 398 4							
Scanner 3.NumberScheduled 1.0000 (Insuf) 1.0000							
388 Scanner 3.Utilization .83476 .03190 .0000 1.0000 1.0000 389 Scanner 2.NumberBusy 1.7811 .03174 .00000 2.0000 2.0000 390 Scanner 2.UmberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 391 Scanner 2.Utilization .89060 .01587 .00000 1.0000 1.0000 392 ID and boarding pass check.Queue.NumberInQ 16.255 (Corr) .00000 63.000 3.0000 393 Scanner3.Queue.NumberInQueue .56227 .05496 .00000 4.0000 1.0000 394 Scanner1.Queue.NumberInQueue .51916 .07420 .00000 5.0000 .00000 395 Identifier Value		<u> -</u>					
389 Scanner 2.NumberSheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 2.0000 390 Scanner 2.NumberScheduled 2.0000 (Insuf) 2.0000 2.0000 2.0000 2.0000 391 Scanner 2.Utilization 89060 0.1587 0.0000 1.0000 1.0000 392 ID and boarding pass check.Queue.NumberInQ 16.255 (Corr) 0.0000 63.000 3.0000 3.0000 393 Scanner3.Queue.NumberInQueue .47974 .04119 .00000 4.0000 1.0000 394 Scanner2.Queue.NumberInQueue .56227 .05496 .00000 4.0000 1.0000 395 Scanner1.Queue.NumberInQueue .51916 .07420 .00000 5.0000 .00000 396 396 397 398 399 Identifier Value 400							
Scanner 2.NumberScheduled 2.0000							
Scanner 2.Utilization							2.0000
392 ID and boarding pass check.Queue.NumberInQ 16.255 (Corr) .00000 63.000 3.00000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.00000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.0000 3.00000 3.0000 3.0000 3.000000 3.00000 3.00000 3.00000 3.00000 3.00000 3.000000 3.00000 3.00000 3.00000 3.00000 3.00000 3.00000 3.00000 3.000000 3.000000 3.000000 3.000000 3.000000 3.000000 3.000000 3.000000 3.0000000000		Scanner 2.NumberScheduled	2.0000	(Insuf)	2.0000		2.0000
393 Scanner3.Queue.NumberInQueue		Scanner 2.Utilization	.89060	.01587	.00000	1.0000	1.0000
394	392	ID and boarding pass check.Queue.NumberInQ		(Corr)	.00000	63.000	3.0000
395	393	Scanner3.Queue.NumberInQueue	.47974	.04119	.00000	4.0000	1.0000
396 397 398 398 399 Identifier 400 401 402 Entity 1.NumberIn 3708.0 403 Entity 1.NumberOut 3696.0 404 Resource 1.NumberSeized 3705.0 405 Resource 1.ScheduledUtilization 406 Scanner 1.NumberSeized 1180.0 407 Scanner 1.ScheduledUtilization 408 Scanner 3.NumberSeized 809.00 409 Scanner 3.ScheduledUtilization 409 Scanner 3.ScheduledUtilization 410 Scanner 2.NumberSeized 411 Scanner 2.ScheduledUtilization 412 System.NumberOut 3696.0	394	Scanner2.Queue.NumberInQueue	.56227	.05496	.00000	4.0000	1.0000
397 398 399		Scanner1.Queue.NumberInQueue	.51916	.07420	.00000	5.0000	.00000
Identifier Value							
Identifier			0011015				
401 402 Entity 1.NumberIn 3708.0 403 Entity 1.NumberOut 3696.0 404 Resource 1.NumberSeized 3705.0 405 Resource 1.ScheduledUtilization .96709 406 Scanner 1.NumberSeized 1180.0 407 Scanner 3.NumberSeized 809.00 408 Scanner 3.NumberSeized 809.00 409 Scanner 3.ScheduledUtilization .83476 410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0		Identifier	Value				
402 Entity 1.NumberIn 3708.0 403 Entity 1.NumberOut 3696.0 404 Resource 1.NumberSeized 3705.0 405 Resource 1.ScheduledUtilization .96709 406 Scanner 1.NumberSeized 1180.0 407 Scanner 1.ScheduledUtilization .61216 408 Scanner 3.NumberSeized 809.00 409 Scanner 3.ScheduledUtilization .83476 410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 Beginning replication 7 of 10	400						
402 Entity 1.NumberIn 3708.0 403 Entity 1.NumberOut 3696.0 404 Resource 1.NumberSeized 3705.0 405 Resource 1.ScheduledUtilization .96709 406 Scanner 1.NumberSeized 1180.0 407 Scanner 1.ScheduledUtilization .61216 408 Scanner 3.NumberSeized 809.00 409 Scanner 3.ScheduledUtilization .83476 410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 Beginning replication 7 of 10	401						
403 Entity 1.NumberOut 3696.0 404 Resource 1.NumberSeized 3705.0 405 Resource 1.ScheduledUtilization .96709 406 Scanner 1.NumberSeized 1180.0 407 Scanner 3.ScheduledUtilization .61216 408 Scanner 3.NumberSeized 809.00 409 Scanner 3.ScheduledUtilization .83476 410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 414 Beginning replication 7 of 10		Entity 1.NumberIn	3708.0				
404 Resource 1.NumberSeized 3705.0 405 Resource 1.ScheduledUtilization .96709 406 Scanner 1.NumberSeized 1180.0 407 Scanner 1.ScheduledUtilization .61216 408 Scanner 3.NumberSeized 809.00 409 Scanner 3.ScheduledUtilization .83476 410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 414 Beginning replication 7 of 10							
405 Resource 1.ScheduledUtilization .96709 406 Scanner 1.NumberSeized 1180.0 407 Scanner 1.ScheduledUtilization .61216 408 Scanner 3.NumberSeized 809.00 409 Scanner 3.ScheduledUtilization .83476 410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 414 Beginning replication 7 of 10							
406 Scanner 1.NumberSeized 1180.0 407 Scanner 1.ScheduledUtilization .61216 408 Scanner 3.NumberSeized 809.00 409 Scanner 3.ScheduledUtilization .83476 410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 414 Beginning replication 7 of 10	405	Resource 1.ScheduledUtilization	.96709				
407 Scanner 1.ScheduledUtilization .61216 408 Scanner 3.NumberSeized 809.00 409 Scanner 3.ScheduledUtilization .83476 410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 414 Beginning replication 7 of 10							
408 Scanner 3.NumberSeized 809.00 409 Scanner 3.ScheduledUtilization .83476 410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 414 Beginning replication 7 of 10	407						
409 Scanner 3.ScheduledUtilization .83476 410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 414 Beginning replication 7 of 10							
410 Scanner 2.NumberSeized 1710.0 411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 414 Beginning replication 7 of 10							
411 Scanner 2.ScheduledUtilization .89060 412 System.NumberOut 3696.0 413 414 Beginning replication 7 of 10							
412 System.NumberOut 3696.0 413 414 Beginning replication 7 of 10							
413 414 Beginning replication 7 of 10							
Beginning replication 7 of 10		2,222	3030.0				
		Beginning replication 7 of 10					

417 Authorized User

Summary for Replication 7 of 10

421 Project: Unnamed Project 422 Analyst: Authorized User Run execution date: 3/11/2020 Model revision date: 3/11/2020

Replication ended at time : 12.0 Hours

Base Time Units: Hours

TALLY VARIABLES

429	Identifier	Average	Half Width	Minimum	Maximum	Observations
430						
431						
432	Entity 1.VATime	.02497	4.3396E-04	.00855	.12363	3599
433	Entity 1.NVATime	.00000	.00000	.00000	.00000	3599
434	<pre>Entity 1.WaitTime</pre>	.03348	(Corr)	.00000	.12093	3599
435	<pre>Entity 1.TranTime</pre>	.00000	.00000	.00000	.00000	3599
436	Entity 1.OtherTime	.00000	.00000	.00000	.00000	3599
437	Entity 1.TotalTime	.05846	(Corr)	.00925	.16374	3599
438	ID and boarding pass check.Queue.WaitingTi	.02874	(Corr)	.00000	.11312	3607
439	Scanner3.Queue.WaitingTime	.00673	7.2029E-04	.00000	.03517	810
440	Scanner2.Queue.WaitingTime	.00367	4.2496E-04	.00000	.02162	1688
441	Scanner1.Queue.WaitingTime	.00474	6.7660E-04	.00000	.02729	1104
442						

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Patitus 1 MTD	17 F40	(Co)	00000	EO 000	9 0000
Entity 1.WIP	17.549	(Corr)	.00000	50.000	8.0000
Resource 1.NumberBusy	3.7433	(Corr)	.00000	4.0000	3.0000
Resource 1.NumberScheduled	4.0000	(Insuf)	4.0000	4.0000	4.0000
Resource 1.Utilization	.93583	(Corr)	.00000	1.0000	.75000
Scanner 1.NumberBusy	1.1465	.08953	.00000	2.0000	.00000
Scanner 1.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
Scanner 1.Utilization	.57328	.04476	.00000	1.0000	.00000
Scanner 3.NumberBusy	.83743	.03054	.00000	1.0000	1.0000
Scanner 3.NumberScheduled	1.0000	(Insuf)	1.0000	1.0000	1.0000
Scanner 3.Utilization	.83743	.03054	.00000	1.0000	1.0000
Scanner 2.NumberBusy	1.7750	.02158	.00000	2.0000	2.0000
Scanner 2.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
Scanner 2.Utilization	.88752	.01079	.00000	1.0000	1.0000
ID and boarding pass check.Queue.NumberInQ	8.6396	(Corr)	.00000	39.000	.00000
Scanner3.Queue.NumberInQueue	.45419	.05103	.00000	3.0000	1.0000
Scanner2.Queue.NumberInQueue	.51728	.05073	.00000	3.0000	1.0000
Scanner1.Queue.NumberInQueue	.43614	.08716	.00000	4.0000	.00000
2 2 3 3 3					

OUTPUTS

Identifier Value

Entity 1.NumberIn	3607.0				
Entity 1.NumberOut Resource 1.NumberSeized	3599.0 3607.0				
Resource 1.ScheduledUtilization	.93583				
Scanner 1.NumberSeized	1104.0				
Scanner 1.ScheduledUtilization	.57328				
Scanner 3. NumberSeized	810.00				
Scanner 3.ScheduledUtilization	.83743				
Scanner 2.NumberSeized	1688.0				
Scanner 2.ScheduledUtilization	.88752				
System.NumberOut	3599.0				
Beginning replication 8 of 10					
A DENTA	N 0:1-+:	D1+-			
ARENA	A Simulation Authorize	on Results			
	Authorized	a User			
Summary	for Replica	ation 8 of 10			
Sammary 1	LOI KEPIIC	acion o oi io			
Project: Unnamed Project			Run ex	ecution dat	te : 3/11/2020
Analyst: Authorized User					ate: 3/11/2020
Replication ended at time : 12.0 Hours	5				
Base Time Units: Hours					
	matta 1115				
	TALLY VAR	IABLES			
Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	.02521	3.7616E-04	.00851	.12506	3596
Entity 1.NVATime	.00000	.00000	.00000	.00000	3596
Entity 1.WaitTime	.07792	(Corr)	.00000	.24121	3596
Entity 1.TranTime	.00000	.00000	.00000	.00000	3596
Entity 1.OtherTime	.00000	.00000	.00000	.00000	3596
Entity 1.TotalTime	.10313	(Corr)	.00851	.31036	3596
ID and boarding pass check.Queue.WaitingTi		(Corr)	.00000	.23422	3607
Scanner3.Queue.WaitingTime	.00733	5.6373E-04		.04269	788
Scanner2.Queue.WaitingTime	.00397	3.2607E-04		.02570	1692
Scanner1.Queue.WaitingTime	.00517	7.8783E-04	.00000	.02540	1121
DISCRE	ETE-CHANGE	VARIABLES			
210011		VIIICIIIDDD			
Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	31.384	(Corr)	.00000	86.000	52.000
Resource 1.NumberBusy	3.7904	(Corr)	.00000	4.0000	4.0000
Resource 1.NumberScheduled	4.0000	(Insuf)	4.0000	4.0000	4.0000
Resource 1.Utilization	.94762	(Corr)	.00000	1.0000	1.0000
		•			

```
521
      Scanner 1.NumberBusy
                                                   1.1686
                                                              .09734
                                                                          .00000
                                                                                     2.0000
                                                                                                 2.0000
522
      Scanner 1. Number Scheduled
                                                   2.0000
                                                                          2.0000
                                                                                     2.0000
                                                               (Insuf)
                                                                                                 2.0000
523
      Scanner 1.Utilization
                                                   .58431
                                                              .04867
                                                                          .00000
                                                                                     1.0000
                                                                                                 1.0000
524
      Scanner 3.NumberBusy
                                                   .82862
                                                              .02986
                                                                          .00000
                                                                                     1.0000
                                                                                                 1.0000
525
      Scanner 3. Number Scheduled
                                                   1.0000
                                                               (Insuf)
                                                                          1.0000
                                                                                     1.0000
                                                                                                 1.0000
526
      Scanner 3.Utilization
                                                   .82862
                                                              .02986
                                                                          .00000
                                                                                     1.0000
                                                                                                 1.0000
527
      Scanner 2.NumberBusy
                                                   1.7820
                                                              .02731
                                                                          .00000
                                                                                     2.0000
                                                                                                 2.0000
      Scanner 2. Number Scheduled
528
                                                   2.0000
                                                               (Insuf)
                                                                          2.0000
                                                                                     2.0000
                                                                                                 2.0000
      Scanner 2.Utilization
                                                               .01366
529
                                                   .89102
                                                                          .00000
                                                                                     1.0000
                                                                                                 1.0000
      ID and boarding pass check.Queue.NumberInQ 22.290
530
                                                                          .00000
                                                                                     76.000
                                                                                                 41.000
                                                               (Corr)
531
      Scanner3. Oueue. Number In Oueue
                                                   .48154
                                                              .04728
                                                                          .00000
                                                                                     3.0000
                                                                                                1.0000
      Scanner2.Queue.NumberInQueue
                                                   .56013
                                                                                     4.0000
532
                                                               (Corr)
                                                                          .00000
                                                                                                 1.0000
      Scanner1.Queue.NumberInQueue
                                                               .11114
                                                                          .00000
533
                                                   .48308
                                                                                     4.0000
                                                                                                 .00000
534
535
                                                    OUTPUTS
536
537
      Identifier
                                                    Value
538
539
540
      Entity 1.NumberIn
                                                   3648.0
541
      Entity 1.NumberOut
                                                   3596.0
542
      Resource 1.NumberSeized
                                                   3607.0
543
      Resource 1.ScheduledUtilization
                                                   .94762
544
      Scanner 1. NumberSeized
                                                   1121.0
      Scanner 1.ScheduledUtilization
545
                                                   .58431
      Scanner 3. Number Seized
                                                   788.00
546
547
      Scanner 3. Scheduled Utilization
                                                   .82862
548
      Scanner 2.NumberSeized
                                                   1692.0
      Scanner 2.ScheduledUtilization
549
                                                   .89102
550
                                                   3596.0
      System.NumberOut
551
552
      Beginning replication 9 of 10
553
554
                                             ARENA Simulation Results
555
                                                  Authorized User
556
557
                                         Summary for Replication 9 of 10
558
559
                                                                             Run execution date: 3/11/2020
      Project: Unnamed Project
      Analyst: Authorized User
560
                                                                             Model revision date: 3/11/2020
561
562
      Replication ended at time
                                   : 12.0 Hours
      Base Time Units: Hours
563
564
565
                                                  TALLY VARIABLES
566
      Identifier
                                                                                                Observations
567
                                                   Average
                                                             Half Width Minimum
                                                                                     Maximum
568
569
                                                              4.1193E-04 .00861
570
      Entity 1.VATime
                                                   .02454
                                                                                     .11406
                                                                                                   3534
                                                   .00000
                                                                                                   3534
571
      Entity 1.NVATime
                                                               .00000
                                                                          .00000
                                                                                     .00000
```

.02374

.00573

.00000

.15163

3534

572

Entity 1.WaitTime

573	Entity 1.TranTime	.00000	.00000	.00000	.00000	3534
574	Entity 1.OtherTime	.00000	.00000	.00000	.00000	3534
575	Entity 1.TotalTime	.04827	.00599	.00887	.21027	3534
576	ID and boarding pass check.Queue.WaitingTi		.00546	.00000	.13800	3544
577	Scanner3.Queue.WaitingTime	.00672	5.7811E-04		.03633	791
578	Scanner2.Queue.WaitingTime	.00361	3.3463E-04		.02580	1691
579	Scanner1.Queue.WaitingTime	.00454	6.8399E-04		.03202	1057
580	beamierr. Quede. warerngrime	•00404	0.00000	• 0 0 0 0 0	• 03202	1007
581	DICCDE	ETE-CHANGE	177 D T 7 D T T C			
582	DISCRE	TE CHANGE	VARTADIES			
583	Identifier	Average	Half Width	Minimum	Maximum	Final Value
584	identiller	Average	nair widen	MITITIMAN	Maximum	rinai vaiue
585						
586	Entity 1.WIP	14.268	2.4606	.00000	40.000	19.000
587	Resource 1.NumberBusy	3.5573	.14125	.00000	4.0000	4.0000
588	Resource 1.NumberScheduled	4.0000	(Insuf)	4.0000	4.0000	4.0000
589	Resource 1.Utilization	.88934	.03531	.00000	1.0000	1.0000
590					2.0000	
590	Scanner 1.NumberBusy Scanner 1.NumberScheduled	1.0988	.08960	.00000		2.0000
		2.0000	(Insuf)	2.0000	2.0000	2.0000
592	Scanner 1.Utilization	.54944	.04480	.00000	1.0000	1.0000
593	Scanner 3. NumberBusy	.82954	.02773	.00000	1.0000	1.0000
594	Scanner 3. NumberScheduled	1.0000	(Insuf)	1.0000	1.0000	1.0000
595	Scanner 3.Utilization	.82954	.02773	.00000	1.0000	1.0000
596	Scanner 2.NumberBusy	1.7536	.02672	.00000	2.0000	2.0000
597	Scanner 2.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
598	Scanner 2.Utilization	.87682	.01336	.00000	1.0000	1.0000
599	ID and boarding pass check.Queue.NumberInQ		2.1520	.00000	33.000	9.0000
600	Scanner3.Queue.NumberInQueue	.44338	.04970	.00000	4.0000	1.0000
601	Scanner2.Queue.NumberInQueue	.50839	.05213	.00000	4.0000	.00000
602	Scanner1.Queue.NumberInQueue	.39987	.09360	.00000	5.0000	.00000
603						
604		OUTPUTS				
605						
606	Identifier	Value				
607						
608						
609	Entity 1.NumberIn	3553.0				
610	Entity 1.NumberOut	3534.0				
611	Resource 1.NumberSeized	3544.0				
612	Resource 1.ScheduledUtilization	.88934				
613	Scanner 1.NumberSeized	1057.0				
614	Scanner 1.ScheduledUtilization	.54944				
615	Scanner 3.NumberSeized	791.00				
616	Scanner 3.ScheduledUtilization	.82954				
617	Scanner 2.NumberSeized	1691.0				
618	Scanner 2.ScheduledUtilization	.87682				
619	System.NumberOut	3534.0				
620						
621	Beginning replication 10 of 10					
622						
623	ARENA	A Simulatio	on Results			
C O 1			1			

Summary for Replication 10 of 10

Run execution date: 3/11/2020 Project: Unnamed Project Analyst: Authorized User Model revision date: 3/11/2020

Replication ended at time : 12.0 Hours

Base Time Units: Hours

TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	.02506	3.6428E-04	.00863	.15906	3626
Entity 1.NVATime	.00000	.00000	.00000	.00000	3626
Entity 1.WaitTime	.05175	(Corr)	.00000	.20437	3626
Entity 1.TranTime	.00000	.00000	.00000	.00000	3626
Entity 1.OtherTime	.00000	.00000	.00000	.00000	3626
Entity 1.TotalTime	.07681	(Corr)	.00864	.26020	3626
ID and boarding pass check.Queue.WaitingTi	.04709	(Corr)	.00000	.19794	3632
Scanner3.Queue.WaitingTime	.00663	5.4069E-04	.00000	.02910	811
Scanner2.Queue.WaitingTime	.00362	3.2193E-04	.00000	.02319	1701
Scanner1.Queue.WaitingTime	.00456	6.4223E-04	.00000	.02613	1116

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	23.220	(Corr)	.00000	71.000	8.0000
Resource 1.NumberBusy	3.8048	.09934	.00000	4.0000	4.0000
Resource 1.NumberScheduled	4.0000	(Insuf)	4.0000	4.0000	4.0000
Resource 1.Utilization	.95121	.02484	.00000	1.0000	1.0000
Scanner 1.NumberBusy	1.1651	.08135	.00000	2.0000	.00000
Scanner 1.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
Scanner 1.Utilization	.58255	.04068	.00000	1.0000	.00000
Scanner 3.NumberBusy	.83959	.02595	.00000	1.0000	1.0000
Scanner 3.NumberScheduled	1.0000	(Insuf)	1.0000	1.0000	1.0000
Scanner 3.Utilization	.83959	.02595	.00000	1.0000	1.0000
Scanner 2.NumberBusy	1.7705	.02630	.00000	2.0000	1.0000
Scanner 2.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
Scanner 2.Utilization	.88526	.01315	.00000	1.0000	.50000
ID and boarding pass check.Queue.NumberInQ	14.254	(Corr)	.00000	62.000	2.0000
Scanner3.Queue.NumberInQueue	.44819	.04144	.00000	3.0000	.00000
Scanner2.Queue.NumberInQueue	.51373	.04552	.00000	4.0000	.00000
Scanner1.Queue.NumberInQueue	.42428	.09089	.00000	5.0000	.00000

OUTPUTS

Identifier Value

6././		
678	Entity 1.NumberIn	3634.0
679	Entity 1.NumberOut	3626.0
680	Resource 1.NumberSeized	3632.0
681	Resource 1.ScheduledUtilization	.95121
682	Scanner 1.NumberSeized	1116.0
683	Scanner 1. Scheduled Utilization	.58255
684	Scanner 3.NumberSeized	811.00
685	Scanner 3. Scheduled Utilization	.83959
686	Scanner 2.NumberSeized	1701.0
687	Scanner 2.ScheduledUtilization	.88526
688	System.NumberOut	3626.0
689		

Output Summary for 10 Replications

Project: Unnamed Project
Analyst: Authorized User

Run execution date: 3/11/2020
Model revision date: 3/11/2020

OUTPUTS

Identifier	Average	rerage Half-width Mi		Maximum # Replications	
Entity 1.NumberIn	3604.8	35.265	3553.0	3708.0	10
Entity 1.NumberOut	3586.8	35.157	3531.0	3696.0	10
Resource 1.NumberSeized	3595.8	34.665	3541.0	3705.0	10
Resource 1.ScheduledUtilization	.92717	.01787	.88934	.96709	10
Scanner 1.NumberSeized	1096.9	27.023	1048.0	1180.0	10
Scanner 1.ScheduledUtilization	.57059	.01371	.54623	.61216	10
Scanner 3.NumberSeized	800.50	6.7292	788.00	811.00	10
Scanner 3.ScheduledUtilization	.83098	.00565	.81649	.83959	10
Scanner 2.NumberSeized	1692.9	7.4904	1676.0	1710.0	10
Scanner 2.ScheduledUtilization	.88404	.00362	.87575	.89102	10
System.NumberOut	3586.8	35.157	3531.0	3696.0	10

717 Simulation run time: 0.02 minutes.

718 Simulation run complete.