

ARENA Simulation Results
Authorized User

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.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

OUTPUTS

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Identifier	Value
Entity 1.NumberIn	3595.0
Entity 1.NumberOut	3586.0
Resource 1.NumberSeized	3595.0
Resource 1.ScheduledUtilization	.93187
Scanner 1.NumberSeized	1097.0
Scanner 1.ScheduledUtilization	.56927
Scanner 3.NumberSeized	811.00
Scanner 3.ScheduledUtilization	.83816
Scanner 2.NumberSeized	1682.0
Scanner 2.ScheduledUtilization	.88305
System.NumberOut	3586.0

Beginning replication 2 of 10

ARENA Simulation Results
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Project: Unnamed Project	Run execution date : 3/11/2020
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TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	.02478	3.4652E-04	.00845	.11882	3531
Entity 1.NVATime	.00000	.00000	.00000	.00000	3531
Entity 1.WaitTime	.02835	.00888	.00000	.11998	3531
Entity 1.TranTime	.00000	.00000	.00000	.00000	3531
Entity 1.OtherTime	.00000	.00000	.00000	.00000	3531
Entity 1.TotalTime	.05313	.00910	.00872	.17159	3531
ID and boarding pass check.Queue.WaitingTi	.02414	.00870	.00000	.10624	3541
Scanner3.Queue.WaitingTime	.00641	4.4958E-04	.00000	.03409	802
Scanner2.Queue.WaitingTime	.00345	2.6615E-04	.00000	.01965	1686
Scanner1.Queue.WaitingTime	.00416	7.1344E-04	.00000	.02539	1048

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	15.749	3.0845	.00000	41.000	24.000
Resource 1.NumberBusy	3.6148	.14263	.00000	4.0000	4.0000

105	Resource 1.NumberScheduled	4.0000	(Insuf)	4.0000	4.0000	4.0000
106	Resource 1.Utilization	.90371	.03566	.00000	1.0000	1.0000
107	Scanner 1.NumberBusy	1.0924	.07467	.00000	2.0000	2.0000
108	Scanner 1.NumberScheduled	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.NumberScheduled	1.0000	(Insuf)	1.0000	1.0000	1.0000
112	Scanner 3.Utilization	.82896	.02482	.00000	1.0000	1.0000
113	Scanner 2.NumberBusy	1.7658	.02514	.00000	2.0000	2.0000
114	Scanner 2.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
115	Scanner 2.Utilization	.88292	.01257	.00000	1.0000	1.0000
116	ID and boarding pass check.Queue.NumberInQ	7.1699	2.8660	.00000	32.000	14.000
117	Scanner3.Queue.NumberInQueue	.42820	.02900	.00000	3.0000	.00000
118	Scanner2.Queue.NumberInQueue	.48525	.03523	.00000	3.0000	.00000
119	Scanner1.Queue.NumberInQueue	.36357	.06667	.00000	4.0000	1.0000

OUTPUTS

Identifier

Value

Entity 1.NumberIn	3555.0
Entity 1.NumberOut	3531.0
Resource 1.NumberSeized	3541.0
Resource 1.ScheduledUtilization	.90371
Scanner 1.NumberSeized	1048.0
Scanner 1.ScheduledUtilization	.54623
Scanner 3.NumberSeized	802.00
Scanner 3.ScheduledUtilization	.82896
Scanner 2.NumberSeized	1686.0
Scanner 2.ScheduledUtilization	.88292
System.NumberOut	3531.0

Beginning replication 3 of 10

ARENA Simulation Results Authorized User

Summary for Replication 3 of 10

Project: Unnamed Project
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TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	.02455	4.0175E-04	.00853	.18314	3550

157	Entity 1.NVATime	.00000	.00000	.00000	.00000	3550
158	Entity 1.WaitTime	.02501	(Corr)	.00000	.12523	3550
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
162	ID and boarding pass check.Queue.WaitingTi	.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
165	Scanner1.Queue.WaitingTime	.00455	4.9152E-04	.00000	.02939	1084

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
Entity 1.WIP	14.710	2.5677	.00000	48.000	17.000
Resource 1.NumberBusy	3.5870	.13034	.00000	4.0000	4.0000
Resource 1.NumberScheduled	4.0000	(Insuf)	4.0000	4.0000	4.0000
Resource 1.Utilization	.89676	.03259	.00000	1.0000	1.0000
Scanner 1.NumberBusy	1.1247	.06737	.00000	2.0000	2.0000
Scanner 1.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
Scanner 1.Utilization	.56235	.03369	.00000	1.0000	1.0000
Scanner 3.NumberBusy	.81649	.02568	.00000	1.0000	1.0000
Scanner 3.NumberScheduled	1.0000	(Insuf)	1.0000	1.0000	1.0000
Scanner 3.Utilization	.81649	.02568	.00000	1.0000	1.0000
Scanner 2.NumberBusy	1.7515	.03202	.00000	2.0000	2.0000
Scanner 2.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
Scanner 2.Utilization	.87575	.01601	.00000	1.0000	1.0000
ID and boarding pass check.Queue.NumberInQ	6.0629	2.3547	.00000	40.000	2.0000
Scanner3.Queue.NumberInQueue	.45031	.04647	.00000	4.0000	1.0000
Scanner2.Queue.NumberInQueue	.50511	.06043	.00000	5.0000	2.0000
Scanner1.Queue.NumberInQueue	.41265	.08263	.00000	5.0000	3.0000

OUTPUTS

Identifier	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

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TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	.02493	4.6155E-04	.00854	.11738	3559
Entity 1.NVATime	.00000	.00000	.00000	.00000	3559
Entity 1.WaitTime	.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
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	Identifier	Value
262		
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

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276 Beginning replication 5 of 10
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281 Summary for Replication 5 of 10
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283 Project: Unnamed Project Run execution date : 3/11/2020
284 Analyst: Authorized User Model revision date: 3/11/2020
285

286 Replication ended at time : 12.0 Hours
287 Base Time Units: Hours
288

289 TALLY VARIABLES

291	Identifier	Average	Half Width	Minimum	Maximum	Observations
292						
293						
294	Entity 1.VATime	.02482	4.7037E-04	.00835	.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	.02625	.00917	.00000	.14565	3598
301	Scanner3.Queue.WaitingTime	.00668	6.1055E-04	.00000	.04119	799
302	Scanner2.Queue.WaitingTime	.00349	2.6158E-04	.00000	.02559	1701
303	Scanner1.Queue.WaitingTime	.00399	6.7830E-04	.00000	.02342	1093

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305 DISCRETE-CHANGE VARIABLES

307	Identifier	Average	Half Width	Minimum	Maximum	Final Value
308						
309						
310	Entity 1.WIP	16.674	(Corr)	.00000	50.000	26.000
311	Resource 1.NumberBusy	3.7041	(Corr)	.00000	4.0000	4.0000
312	Resource 1.NumberScheduled	4.0000	(Insuf)	4.0000	4.0000	4.0000

365	Entity 1.WaitTime	.05782	(Corr)	.00000	.21619	3696
366	Entity 1.TranTime	.00000	.00000	.00000	.00000	3696
367	Entity 1.OtherTime	.00000	.00000	.00000	.00000	3696
368	Entity 1.TotalTime	.08282	(Corr)	.01048	.27199	3696
369	ID and boarding pass check.Queue.WaitingTi	.05265	(Corr)	.00000	.20637	3705
370	Scanner3.Queue.WaitingTime	.00712	6.0610E-04	.00000	.04837	809
371	Scanner2.Queue.WaitingTime	.00395	3.7587E-04	.00000	.02513	1710
372	Scanner1.Queue.WaitingTime	.00528	6.3933E-04	.00000	.03102	1180

DISCRETE-CHANGE VARIABLES

376	Identifier	Average	Half Width	Minimum	Maximum	Final Value
379	Entity 1.WIP	25.525	(Corr)	.00000	73.000	12.000
380	Resource 1.NumberBusy	3.8683	.09250	.00000	4.0000	4.0000
381	Resource 1.NumberScheduled	4.0000	(Insuf)	4.0000	4.0000	4.0000
382	Resource 1.Utilization	.96709	.02313	.00000	1.0000	1.0000
383	Scanner 1.NumberBusy	1.2243	.08510	.00000	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.NumberBusy	.83476	.03190	.00000	1.0000	1.0000
387	Scanner 3.NumberScheduled	1.0000	(Insuf)	1.0000	1.0000	1.0000
388	Scanner 3.Utilization	.83476	.03190	.00000	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.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

OUTPUTS

399	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

Beginning replication 7 of 10

Authorized User

Summary for Replication 7 of 10

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TALLY VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Observations
Entity 1.VATime	.02497	4.3396E-04	.00855	.12363	3599
Entity 1.NVATime	.00000	.00000	.00000	.00000	3599
Entity 1.WaitTime	.03348	(Corr)	.00000	.12093	3599
Entity 1.TranTime	.00000	.00000	.00000	.00000	3599
Entity 1.OtherTime	.00000	.00000	.00000	.00000	3599
Entity 1.TotalTime	.05846	(Corr)	.00925	.16374	3599
ID and boarding pass check.Queue.WaitingTi	.02874	(Corr)	.00000	.11312	3607
Scanner3.Queue.WaitingTime	.00673	7.2029E-04	.00000	.03517	810
Scanner2.Queue.WaitingTime	.00367	4.2496E-04	.00000	.02162	1688
Scanner1.Queue.WaitingTime	.00474	6.7660E-04	.00000	.02729	1104

DISCRETE-CHANGE VARIABLES

Identifier	Average	Half Width	Minimum	Maximum	Final Value
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

OUTPUTS

Identifier	Value
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471 Entity 1.NumberIn 3607.0

472 Entity 1.NumberOut 3599.0

473 Resource 1.NumberSeized 3607.0

474 Resource 1.ScheduledUtilization .93583

475 Scanner 1.NumberSeized 1104.0

476 Scanner 1.ScheduledUtilization .57328

477 Scanner 3.NumberSeized 810.00

478 Scanner 3.ScheduledUtilization .83743

479 Scanner 2.NumberSeized 1688.0

480 Scanner 2.ScheduledUtilization .88752

481 System.NumberOut 3599.0

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483 Beginning replication 8 of 10

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486 Authorized User

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488 Summary for Replication 8 of 10

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490 Project: Unnamed Project

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491 Analyst: Authorized User

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492

493 Replication ended at time : 12.0 Hours

494 Base Time Units: Hours

495

496 TALLY VARIABLES

497

498 Identifier Average Half Width Minimum Maximum Observations

499

500

501 Entity 1.VATime .02521 3.7616E-04 .00851 .12506 3596

502 Entity 1.NVATime .00000 .00000 .00000 .00000 3596

503 Entity 1.WaitTime .07792 (Corr) .00000 .24121 3596

504 Entity 1.TranTime .00000 .00000 .00000 .00000 3596

505 Entity 1.OtherTime .00000 .00000 .00000 .00000 3596

506 Entity 1.TotalTime .10313 (Corr) .00851 .31036 3596

507 ID and boarding pass check.Queue.WaitingTi .07315 (Corr) .00000 .23422 3607

508 Scanner3.Queue.WaitingTime .00733 5.6373E-04 .00000 .04269 788

509 Scanner2.Queue.WaitingTime .00397 3.2607E-04 .00000 .02570 1692

510 Scanner1.Queue.WaitingTime .00517 7.8783E-04 .00000 .02540 1121

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512 DISCRETE-CHANGE VARIABLES

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514 Identifier Average Half Width Minimum Maximum Final Value

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517 Entity 1.WIP 31.384 (Corr) .00000 86.000 52.000

518 Resource 1.NumberBusy 3.7904 (Corr) .00000 4.0000 4.0000

519 Resource 1.NumberScheduled 4.0000 (Insuf) 4.0000 4.0000 4.0000

520 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.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	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.NumberScheduled	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
528	Scanner 2.NumberScheduled	2.0000	(Insuf)	2.0000	2.0000	2.0000
529	Scanner 2.Utilization	.89102	.01366	.00000	1.0000	1.0000
530	ID and boarding pass check.Queue.NumberInQ	22.290	(Corr)	.00000	76.000	41.000
531	Scanner3.Queue.NumberInQueue	.48154	.04728	.00000	3.0000	1.0000
532	Scanner2.Queue.NumberInQueue	.56013	(Corr)	.00000	4.0000	1.0000
533	Scanner1.Queue.NumberInQueue	.48308	.11114	.00000	4.0000	.00000

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535 OUTPUTS

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537	Identifier	Value
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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
545	Scanner 1.ScheduledUtilization	.58431
546	Scanner 3.NumberSeized	788.00
547	Scanner 3.ScheduledUtilization	.82862
548	Scanner 2.NumberSeized	1692.0
549	Scanner 2.ScheduledUtilization	.89102
550	System.NumberOut	3596.0

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552 Beginning replication 9 of 10

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554 ARENA Simulation Results
555 Authorized User

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557 Summary for Replication 9 of 10

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

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562 Replication ended at time : 12.0 Hours
563 Base Time Units: Hours

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565 TALLY VARIABLES

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567	Identifier	Average	Half Width	Minimum	Maximum	Observations
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570	Entity 1.VATime	.02454	4.1193E-04	.00861	.11406	3534
571	Entity 1.NVATime	.00000	.00000	.00000	.00000	3534
572	Entity 1.WaitTime	.02374	.00573	.00000	.15163	3534

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	.01919	.00546	.00000	.13800	3544
577	Scanner3.Queue.WaitingTime	.00672	5.7811E-04	.00000	.03633	791
578	Scanner2.Queue.WaitingTime	.00361	3.3463E-04	.00000	.02580	1691
579	Scanner1.Queue.WaitingTime	.00454	6.8399E-04	.00000	.03202	1057

DISCRETE-CHANGE VARIABLES

583	Identifier	Average	Half Width	Minimum	Maximum	Final Value
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	Scanner 1.NumberBusy	1.0988	.08960	.00000	2.0000	2.0000
591	Scanner 1.NumberScheduled	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	5.6777	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

OUTPUTS

606	Identifier	Value
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

Beginning replication 10 of 10

Summary for Replication 10 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	.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
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Entity 1.NumberIn	3634.0
Entity 1.NumberOut	3626.0
Resource 1.NumberSeized	3632.0
Resource 1.ScheduledUtilization	.95121
Scanner 1.NumberSeized	1116.0
Scanner 1.ScheduledUtilization	.58255
Scanner 3.NumberSeized	811.00
Scanner 3.ScheduledUtilization	.83959
Scanner 2.NumberSeized	1701.0
Scanner 2.ScheduledUtilization	.88526
System.NumberOut	3626.0

ARENA Simulation Results
Authorized User

Output Summary for 10 Replications

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

OUTPUTS

Identifier	Average	Half-width Minimum		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

Simulation run time: 0.02 minutes.
Simulation run complete.