Untitled Model 1

```
ZEXP FUNCTION RN1,C24
0,0/.1,.104/.2,.222/.3,.355/.4,.509/.5,.69/.6,.915/.7,1.2/.75,1.38
.8,1.6/.84,1.83/.88,2.12/.9,2.3/.92,2.52/.94,2.81/.95,2.99/.96,3.2
.97,3.5/.98,3.9/.99,4.6/.995,5.3/.998,6.2/.999,7/.9998,8
ZFN4 FUNCTION RN7,D8
0,20/.25,20/.251,60/.5,60/.501,80/.75,80/.751,100/1,100
ZFN5 FUNCTION RN4,C11
0,0/.125,3/.25,9/.375,14/.5,20/.625,39/.69,44/.75,50/.875,62/.95,80/1,100

TAB_1 TABLE M1,0,118,9
TAB_2 TABLE M1,0,89,9

GENERATE 121,15,,,3
TRANSFER ,PN_HP
GENERATE 121,15,,,2
TRANSFER ,PN_MP
GENERATE 121,15,,,1

QUEUE QLPR
SEIZE DEV1
DEPART QLPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TH

PN_MP QUEUE QMPR
SEIZE DEV1
DEPART QMPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
```

Untitled Model 1

```
PN_MP QUEUE QMPR
SEIZE DEV1
DEPART QMPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TM

PN_HP QUEUE QHPR
SEIZE DEV1
DEPART QHPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TL

TR_TH TRANSFER .23,TR_TH2,TR_TH1
TR_TH1 TABULATE TAB_1
TRANSFER ,OUT_H
TR_TH2 TABULATE TAB_2
TRANSFER ,OUT_H

TR_TM TRANSFER .23,TR_TM2,TR_TM1
TR_TM1 TABULATE TAB_1
TRANSFER ,OUT_M
TR_TM2 TABULATE TAB_2
TRANSFER ,OUT_M
```

Untitled Model 1

```
RELEASE DEV4
TRANSFER ,TR_TM

PN_HP QUEUE QHPR
SEIZE DEV1
DEPART QHPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TL

TR_TH TRANSFER .23,TR_TH2,TR_TH1
TR_TH1 TABULATE TAB_1
TRANSFER ,OUT_H
TR_TH2 TABULATE TAB_2
TRANSFER ,OUT_H

TR_TM TRANSFER .23,TR_TM2,TR_TM1
TR_TM1 TABULATE TAB_1
TRANSFER ,OUT_M
TR_TM2 TABULATE TAB_2
TRANSFER ,OUT_M

TR_TL TRANSFER .23,TR_TL2,TR_TL1
TR_TL1 TABULATE TAB_1
TRANSFER ,OUT_L
TR_TL2 TABULATE TAB_2
TRANSFER ,OUT_L

OUT_H TERMINATE 1
OUT_M TERMINATE 1
OUT_L TERMINATE 1
START 100
```

Untitled Model 1

```
QUEUE QLPR
SEIZE DEV1
DEPART QLPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TH

PN_MP QUEUE QMPR
SEIZE DEV1
DEPART QMPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TM

PN_HP QUEUE QHPR
SEIZE DEV1
DEPART QHPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
```

Untitled Model 1.18.1 - REPORT

```
              GPSS World Simulation Report - Untitled Model 1.18.1


                   Tuesday, May 23, 2023 22:26:21

          START TIME           END TIME  BLOCKS  FACILITIES  STORAGES
               0.000           5928.401    68        4          0


              NAME                        VALUE
          DEV1                         10006.000
          DEV2                         10009.000
          DEV3                         10010.000
          DEV4                         10011.000
          OUT_H                           66.000
          OUT_L                           68.000
          OUT_M                           67.000
          PN_HP                           36.000
          PN_MP                           21.000
          QHPR                         10007.000
          QLPR                         10008.000
          QMPR                         10005.000
          TAB_1                        10003.000
          TAB_2                        10004.000
          TR_TH                           51.000
          TR_TH1                          52.000
          TR_TH2                          54.000
          TR_TL                           61.000
          TR_TL1                          62.000
          TR_TL2                          64.000
          TR_TM                           56.000
          TR_TM1                          57.000
          TR_TM2                          59.000
          ZEXP                         10000.000
          ZFN4                         10001.000
          ZFN5                         10002.000


 LABEL              LOC  BLOCK TYPE     ENTRY COUNT CURRENT COUNT RETRY
                     1   GENERATE            49            0       0
                     2   TRANSFER            49            0       0
```

Untitled Model 1

```
QUEUE QLPR
SEIZE DEV1
DEPART QLPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TH

PN_MP QUEUE QMPR
SEIZE DEV1
DEPART QMPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TM

PN_HP QUEUE QHPR
SEIZE DEV1
DEPART QHPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
```

Untitled Model 1.18.1 - REPORT

```
 LABEL              LOC  BLOCK TYPE     ENTRY COUNT CURRENT COUNT RETRY
                     1   GENERATE            49            0       0
                     2   TRANSFER            49            0       0
                     3   GENERATE            48            0       0
                     4   TRANSFER            48            0       0
                     5   GENERATE            49            0       0
                     6   QUEUE               49           40       0
                     7   SEIZE                9            0       0
                     8   DEPART               9            0       0
                     9   ADVANCE              9            0       0
                    10   RELEASE              9            0       0
                    11   SEIZE                9            0       0
                    12   ADVANCE              9            0       0
                    13   RELEASE              9            0       0
                    14   SEIZE                9            0       0
                    15   ADVANCE              9            0       0
                    16   RELEASE              9            0       0
                    17   SEIZE                9            0       0
                    18   ADVANCE              9            0       0
                    19   RELEASE              9            0       0
                    20   TRANSFER             9            0       0
 PN_MP              21   QUEUE               48            0       0
                    22   SEIZE               48            0       0
                    23   DEPART              48            0       0
                    24   ADVANCE             48            1       0
                    25   RELEASE             47            0       0
                    26   SEIZE               47            0       0
                    27   ADVANCE             47            0       0
                    28   RELEASE             47            0       0
                    29   SEIZE               47            0       0
                    30   ADVANCE             47            0       0
                    31   RELEASE             47            2       0
                    32   SEIZE               45            0       0
                    33   ADVANCE             45            0       0
                    34   RELEASE             45            0       0
                    35   TRANSFER            45            0       0
 PN_HP              36   QUEUE               49            1       0
                    37   SEIZE               48            0       0
                    38   DEPART              48            0       0
                    39   ADVANCE             48            0       0
                    40   RELEASE             48            0       0
                    41   SEIZE               48            0       0
```

Untitled Model 1

```
QUEUE QLPR
SEIZE DEV1
DEPART QLPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TH

PN_MP QUEUE QMPR
SEIZE DEV1
DEPART QMPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TM

PN_HP QUEUE QHPR
SEIZE DEV1
DEPART QHPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
```

Untitled Model 1.18.1 - REPORT

	31	RELEASE	47	2	0	
	32	SEIZE	45	0	0	
	33	ADVANCE	45	0	0	
	34	RELEASE	45	0	0	
	35	TRANSFER	45	0	0	
PN_HP	36	QUEUE	49	1	0	
	37	SEIZE	48	0	0	
	38	DEPART	48	0	0	
	39	ADVANCE	48	0	0	
	40	RELEASE	48	0	0	
	41	SEIZE	48	0	0	
	42	ADVANCE	48	0	0	
	43	RELEASE	48	0	0	
	44	SEIZE	48	0	0	
	45	ADVANCE	48	0	0	
	46	RELEASE	48	1	0	
	47	SEIZE	47	0	0	
	48	ADVANCE	47	1	0	
	49	RELEASE	46	0	0	
	50	TRANSFER	46	0	0	
TR_TH	51	TRANSFER	9	0	0	
TR_TH1	52	TABULATE	2	0	0	
	53	TRANSFER	2	0	0	
TR_TH2	54	TABULATE	7	0	0	
	55	TRANSFER	7	0	0	
TR_TM	56	TRANSFER	45	0	0	
TR_TM1	57	TABULATE	11	0	0	
	58	TRANSFER	11	0	0	
TR_TM2	59	TABULATE	34	0	0	
	60	TRANSFER	34	0	0	
TR_TL	61	TRANSFER	46	0	0	
TR_TL1	62	TABULATE	6	0	0	
	63	TRANSFER	6	0	0	
TR_TL2	64	TABULATE	40	0	0	
	65	TRANSFER	40	0	0	
OUT_H	66	TERMINATE	9	0	0	
OUT_M	67	TERMINATE	45	0	0	
OUT_L	68	TERMINATE	46	0	0	

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
DEV1	105	0.978	55.229	1	144	0	0	0	41
DEV2	104	0.000	0.000	1	0	0	0	0	0

Untitled Model 1

```
QUEUE QLPR
SEIZE DEV1
DEPART QLPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TH

PN_MP QUEUE QMPR
SEIZE DEV1
DEPART QMPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
SEIZE DEV4
ADVANCE 45,FN$ZEXP
RELEASE DEV4
TRANSFER ,TR_TM

PN_HP QUEUE QHPR
SEIZE DEV1
DEPART QHPR
ADVANCE 55,11
RELEASE DEV1
SEIZE DEV2
ADVANCE ,FN$ZFN4
RELEASE DEV2
SEIZE DEV3
ADVANCE ,FN$ZFN5
RELEASE DEV3
```

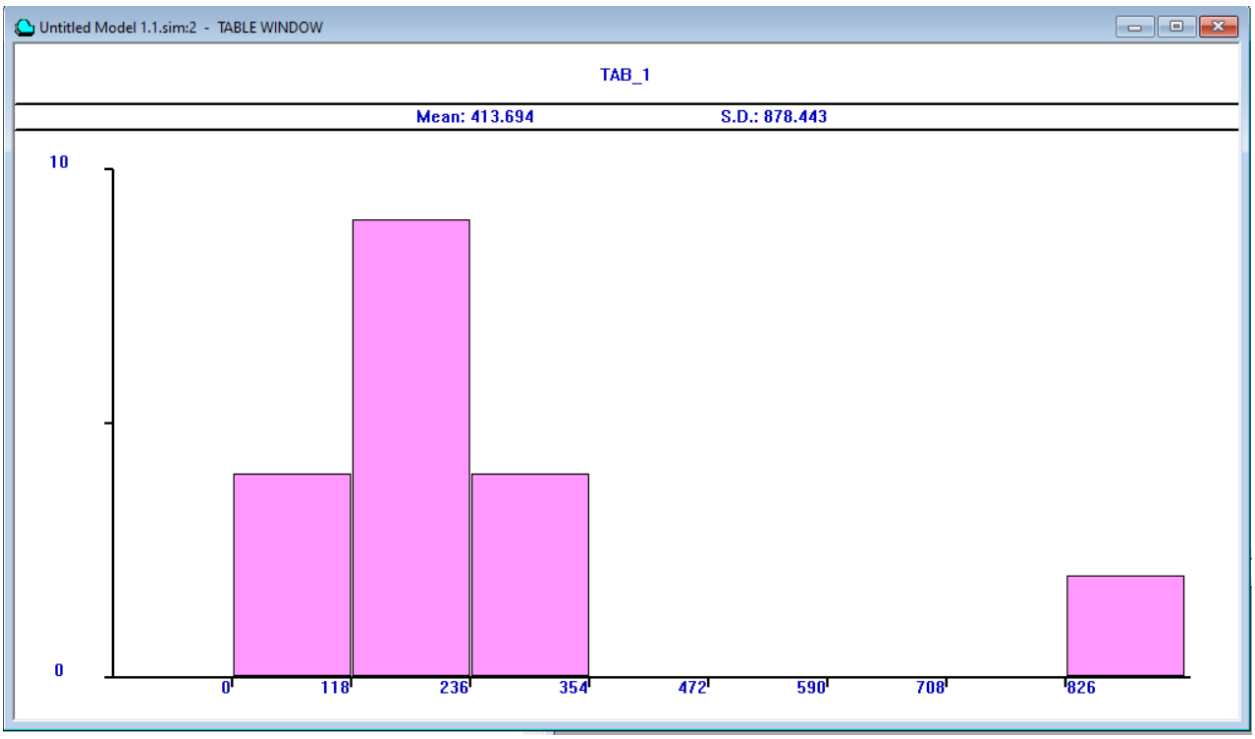
Untitled Model 1.18.1 - REPORT

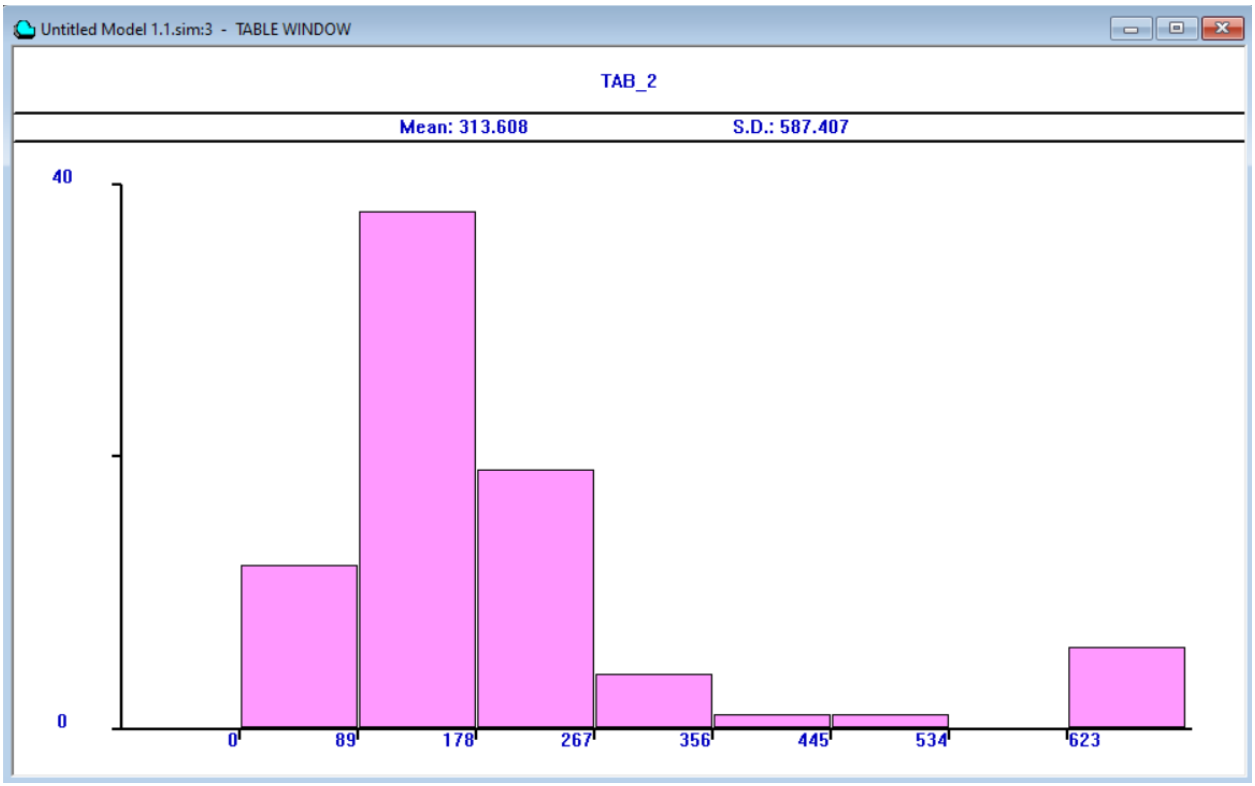
FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
DEV1	105	0.978	55.229	1	144	0	0	0	41
DEV2	104	0.000	0.000	1	0	0	0	0	0
DEV3	104	0.000	0.000	1	0	0	0	0	0
DEV4	101	0.642	37.664	1	140	0	0	0	3

QUEUE	MAX	CONT.	ENTRY	ENTRY(0)	AVE.CONT.	AVE.TIME	AVE.(-0)	RETRY
QMPR	2	0	48	1	0.473	58.391	59.633	0
QHPR	1	1	49	0	0.268	32.482	32.482	0
QLPR	40	40	49	0	19.154	2317.424	2317.424	0

TABLE	MEAN	STD.DEV.	RANGE			RETRY	FREQUENCY	CUM.%
TAB_1	413.694	878.443				0		
			0.000	-	118.000		4	21.05
			118.000	-	236.000		9	68.42
			236.000	-	354.000		4	89.47
			354.000	-	472.000		0	89.47
			472.000	-	590.000		0	89.47
			590.000	-	708.000		0	89.47
			708.000	-	826.000		0	89.47
			826.000	-	_		2	100.00
TAB_2	313.608	587.407				0		
			0.000	-	89.000		12	14.81
			89.000	-	178.000		38	61.73
			178.000	-	267.000		19	85.19
			267.000	-	356.000		4	90.12
			356.000	-	445.000		1	91.36
			445.000	-	534.000		1	92.59
			534.000	-	623.000		0	92.59
			623.000	-	_		6	100.00

FEC XN	PRI	BDT	ASSEM	CURRENT	NEXT	PARAMETER	VALUE
147	2	5948.089	147	0	3		
144	2	5974.668	144	24	25		
148	1	5999.659	148	0	5		
140	3	6029.236	140	48	49		
149	3	6036.111	149	0	1		


Untitled Model 1.1.sim:2 - TABLE WINDOW
TAB_1
Mean: 413.694
S.D.: 878.443
10
0
0
118
236
354
472
590
708
826


Untitled Model 1.1.sim:3 - TABLE WINDOW
TAB_2
Mean: 313.608
S.D.: 587.407
40
0
0
89
178
267
356
445
534
623