

Лабораторная работа № 15

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Построить модели обслуживания с приоритетами в GPSS.

Ход работы

Построил модель обслуживания механиков и запустил симуляцию: (рис. @fig:001):

The screenshot displays three windows from a simulation software:

- lab15.1.gps**: Contains the simulation model code.
- lab15.1.2.sim - JO...**: Shows the simulation progress log.
- lab15.1.2.1 - REPORT**: Displays a detailed report of the simulation results.

lab15.1.gps content:

```
;type 1
GENERATE 420,360,,,1
QUEUE qs1
SEIZE stockman
DEPART qs1
ADVANCE 300,90
RELEASE stockman
TERMINATE 0
;type 2
GENERATE 360,240,,,2
QUEUE qs2
SEIZE stockman
DEPART qs2
ADVANCE 100,30
RELEASE stockman
TERMINATE 0
;timer
GENERATE 28800
TERMINATE 1
START 1
```

lab15.1.2.sim - JO... log:

```
06/11/21 01:16:36 Model
Translation Begun.
06/11/21 01:16:36 Ready.
06/11/21 01:16:36 Simulation in
Progress.
06/11/21 01:16:36 The Simulation
has ended. Clock is
28800.000000.
06/11/21 01:16:36 Reporting in
lab15.1.2.1 - REPORT Window.
```

lab15.1.2.1 - REPORT content:

NAME	VALUE
QS1	10002.000
QS2	10000.000
STOCKMAN	10001.000

LABEL	LOC	BLOCK	TYPE	ENTRY	COUNT	CURRENT	COUNT	RETRY
1	GENERATE	71		0	0			
2	QUEUE	71		6	0			
3	SEIZE	65		0	0			
4	DEPART	65		0	0			
5	ADVANCE	65		1	0			
6	RELEASE	64		0	0			
7	TERMINATE	64		0	0			
8	GENERATE	83		0	0			
9	QUEUE	83		2	0			
10	SEIZE	81		0	0			
11	DEPART	81		0	0			
12	ADVANCE	81		0	0			
13	RELEASE	81		0	0			
14	TERMINATE	81		0	0			
15	GENERATE	1		0	0			
16	TERMINATE	1		0	0			

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
STOCKMAN	146	0.967	190.733	1	141	0	0	0	8

QUEUE	MAX	CONT.	ENTRY	ENTRY(0)	AVE.CONT.	AVE.TIME	AVE.(-0)	RETRY
QS2	3	2	83	2	0.439	152.399	156.162	0
QS1	8	6	71	4	2.177	883.029	935.747	0

Построил одель обслуживания судов в порту и запустил симуляцию: (рис. @fig:002)

[illegible]

Рис. 2: модель2

Построил и проанализировал различные модели обслуживания с приоритетом в GPSS.