

### МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ РФ

### ФГБОУ ВО

# Воронежский государственный

Специальность 09.03.02 «Информационные системы и технологии» Кафедра Информационных технологий моделирования и управления

# Отчет по практической работе

дисциплине «Имитационное моделирование систем» (наименование учебной дисциплины) ПО

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# МОДЕЛИРОВАНИЕ ВЫЧИСЛИТЕЛЬНЫХ СИСТЕМ С ПОМОЩЬЮ СИСТЕМЫ GPSS/PC

#### Задача 1.

MEM STORAGE 2

ZEXP FUNCTION RN1,C12

0,0/.2,.22/.4,.51/.5,.69/.6,.92/.7,1.2/.8,1.61

.9,2.3/.95,3/.99,4.6/.999,6.9/1,100

GENERATE 8,6,,500

QUEUE OCH1

ENTER MEM, 1

DEPART OCH1

MET6 QUEUE A2

TRANSFER BOTH, MET1, MET2

MET1 SEIZE CPU1

DEPART A2

ADVANCE 5, FN\$ZEXP

RELEASE CPU1

TRANSFER ,MET3

MET2 SEIZE CPU2

DEPART A2

ADVANCE 2, FN\$ZEXP

RELEASE CPU2

MET3 TRANSFER .6, MET5, MET4

MET4 QUEUE A3

SEIZE DISK

DEPART A3

ADVANCE 7,2

RELEASE DISK

TRANSFER , MET 6

MET5 LEAVE MEM, 1

TERMINATE 1

GPSS World - Untitled Model 5.9.1 - REPORT:2										_ 0
le Edit Search View Command Window Help										
Untitled Model 5	Untitled (	Model 5.9.1 - R	REPOR	π						
MEM STORAGE 2					n Report -		Model	5.9.1		
ZEXP FUNCTION RN1,C12 O, O/.2,.22/.4,.51/.5,.69/.6,.92/.7,1.2	1	ສະ	unday	, March 05	5, 2023 08:	33:39				
.8,1.61/.9,2.3/.95,3/.99,4.6/.999,6.9/1		START TIME	r	FMI	TIME BLO	CKS FAC	TI.TTTFS	STO	RAGES	
100	· •	0.000			22.378 2		3		1	
GENERATE 8,6,,500										
QUEUE OCH1		NAME			VALU	E				
ENTER MEM, 1		A2			10003.0					
DEPART OCH1		A3 CPU1			10006.0 10004.0					
MET6 QUEUE A2		CPU1 CPU2			10004.0					
TRANSFER BOTH, MET1, MET2		DISK			10007.0					
MET1 SEIZE CPU1		MEM			10000.0	00				
DEPART A2		MET1			7.0					
ADVANCE 5,FN\$ZEXP RELEASE CPU1		MET2 MET3			12.0 16.0					
TRANSFER , MET3		MET4			17.0					
·		MET5			23.0					
MET2 SEIZE CPU2		MET6			5.0	00				
DEPART A2		OCH1			10002.0					
ADVANCE 2,FN\$ZEXP RELEASE CPU2		ZEXP			10001.0	00				
NEBEROL OF OR	LABEL	T	LOC	BLOCK TYPE	ENLDA	COUNT C	URRENT	COUNT	RETRV	
MET3 TRANSFER .6, MET5, MET4	DADED	1		GENERATE		00		0	0	
MET4 QUEUE A3		2		QUEUE		00		0	0	
SEIZE DISK		3	3	ENTER	5	00		0	0	
DEPART A3		4	-	DEPART		00		0	0	
ADVANCE 7,2 RELEASE DISK	MET6	5		QUEUE	13			0 0	0	
TRANSFER ,MET6	MET1	6 7		TRANSFER SEIZE	13	03 93		0	0	
METS LEAVE MEM, 1				DEPART		93		0	0	
TERMINATE 1		9		ADVANCE	6	93		0	0	
START 500		10		RELEASE		93		0	0	
	wnmo	11		TRANSFER		93		0	0	
	MET2	12 13		SEIZE DEPART		12 12		0 0	0	
		14		ADVANCE		12		0	0	
		1.5		RELEASE		12		n	Π	
r Help, press F1 Report is Complete.									Clock	
	MET2	12	2	SEIZE		512		0	0	
TRANSFER BOTH, MET1, MET2 MET1 SEIZE CPU1	nE 12	1:		DEPART		512		0	0	
DEPART A2		14		ADVANCE		512		0	ō	
ADVANCE 5,FN\$ZEXP		15	5	RELEASE	(	512		0	0	
RELEASE CPU1	MET3	1		TRANSFER		305		0	0	
TRANSFER ,MET3	MET4	1'		QUEUE		305		0	0	
WDWO CRITER COVO		11		SEIZE DEPART		305 305		0	0	
MET2 SEIZE CPU2 DEPART A2		21		ADVANCE		305		0	0	
ADVANCE 2,FN\$ZEXP		2:		RELEASE		305		0	0	
RELEASE CPU2		23	2	TRANSFER	8	305		0	0	
	MET5	23		LEAVE		500		0	0	
MET3 TRANSFER .6, MET5, MET4		2	4	TERMINATE		500		0	0	
MET4 QUEUE A3	FACILITY	Thir	יחדקי	UTIL.	AVE. TIME	AWATI. O	יים מקוווו	ND TN	יסדקם קקד	בי ושם
SEIZE DISK DEPART A3	CPU1		693	0.745	7.230		0	0	0 0	0
ADVANCE 7,2	CPU2		612	0.181	1.992		0	0	0 0	0
RELEASE DISK	DISK	1	805	0.835	6.976	1	0	0	0 0	0
TRANSFER ,MET6	QUEUE				ENTRY(O)				AVE. (-0)	
METS LEAVE MEN,1	OCH1	20	06 1	0 500 0 1305		99.871 0.000		735 000	1350.840	
METS LEAVE MEM,1 TERMINATE 1	12			0 1305		0.229		909	3.992	
METS LEAVE MEN,1	A2 A3		1						2.224	_
METS LEAVE MEM,1 TERMINATE 1	A2 A3		1	0 000						
METS LEAVE MEM,1 TERMINATE 1		c.			MAX. ENTR	IES AVL.	AVE.C	. UTI	L. RETRY	DELAY
METS LEAVE MEM,1 TERMINATE 1	A3	c.			MAX. ENTR	IES AVL. 00 1	AVE.C 1.991			DELAY O

#### Задача 2.

ZEXP FUNCTION RN1, C12

0,0/.2,.22/.4,.51/.5,.69/.6,.92/.7,1.2/.8,1.61

.9,2.3/.95,3/.99,4.6/.999,6.9/1,500

GENERATE 2, FN\$ZEXP

TRANSFER .2, MET2, MET1

MET2 TRANSFER .25, MET4, MET3

MET4 TRANSFER .333, MET6, MET5

MET6 TRANSFER .5, MET8, MET7

MET1 TEST L Q\$OCH1,5,0UT

QUEUE OCH1

SEIZE DISK1

DEPART OCH1

ASSIGN 1, DISK1

ADVANCE 7,1

RELEASE DISK1

TRANSFER , MET9

MET3 TEST L Q\$OCH2,5,OUT

QUEUE OCH2

SEIZE DISK2

DEPART OCH2

ASSIGN 1, DISK2

ADVANCE 5,3

RELEASE DISK2

TRANSFER , MET9

MET5 TEST L Q\$OCH3,5,OUT

QUEUE OCH3

SEIZE DISK3

DEPART OCH3

ASSIGN 1, DISK3

ADVANCE 4,2

RELEASE DISK3

TRANSFER , MET9

MET7 TEST L Q\$OCH4,5,OUT

QUEUE OCH4

SEIZE DISK4

DEPART OCH4

ASSIGN 1, DISK4

ADVANCE 25,25

RELEASE DISK4
TRANSFER ,MET9

MET8 TEST L Q\$OCH5,5,OUT QUEUE OCH5 SEIZE DISK5 DEPART OCH5 ASSIGN 1,DISK5 ADVANCE 25,25 RELEASE DISK5 TRANSFER ,MET9

MET9 TEST L Q\$OCH6,5,OUT
QUEUE OCH6
SEIZE CAN
DEPART OCH6
ADVANCE 1.7
RELEASE CAN
TERMINATE
OUT TERMINATE

GENERATE 150000 TERMINATE 1 START 1





