

# Задание 1

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MEM STORAGE      8
020 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      2,FN$ZEXP,,500
      TEST L Q$A11,5,COUNTER
      QUEUE          A11
      ENTER          MEM,1
      DEPART         A11
MET6   QUEUE          A2
      TRANSFER       BOTH,MET1,MET2
MET1   SEIZE          CPU1
      DEPART         A2
      ADVANCE        5,FN$ZEXP
      RELEASE        CPU1
      TRANSFER       ,MET3
MET2   SEIZE          CPU2
      DEPART         A2
      ADVANCE        1,FN$ZEXP
      RELEASE        CPU2
MET3   TRANSFER       .6,MET5,MET4
MET4   QUEUE          A3
      SEIZE          DISK
      DEPART         A3
      ADVANCE        5,3
      RELEASE        DISK
      TRANSFER       ,MET6
MET5   LEAVE          MEM,1
      TERMINATE      1
COUNTER TERMINATE     1
      START          500|

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Monday, March 27, 2023 07:54:12

START TIME	END TIME	BLOCKS	FACILITIES	STORAGES
0.000	1451.004	26	3	1

NAME	VALUE
A11	10002.000
A2	10003.000
A3	10006.000
COUNTER	26.000
CPU1	10004.000
CPU2	10005.000
DISK	10007.000
MEM	10000.000
MET1	8.000
MET2	13.000
MET3	17.000
MET4	18.000
MET5	24.000
MET6	6.000
ZEXP	10001.000

LABEL	LOC	BLOCK TYPE	ENTRY COUNT	CURRENT	COUNT	RETRY
	1	GENERATE	500		0	0
	2	TEST	500		0	0
	3	QUEUE	174		0	0
	4	ENTER	174		0	0
	5	DEPART	174		0	0
MET6	6	QUEUE	422		0	0
	7	TRANSFER	422		0	0
MET1	8	SEIZE	197		0	0
	9	DEPART	197		0	0
	10	ADVANCE	197		0	0
	11	RELEASE	197		0	0
	12	TRANSFER	197		0	0
MET2	13	SEIZE	225		0	0
	14	DEPART	225		0	0
	15	ADVANCE	225		0	0
	16	RELEASE	225		0	0
MET3	17	TRANSFER	422		0	0
MET4	18	QUEUE	248		0	0
	19	SEIZE	248		0	0
	20	DEPART	248		0	0
	21	ADVANCE	248		0	0
	22	RELEASE	248		0	0

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	23	TRANSFER	248	0	0
MET5	24	LEAVE	174	0	0
	25	TERMINATE	174	0	0
COUNTER	26	TERMINATE	326	0	0

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
CPU1	197	0.663	4.880	1		0	0	0	0
CPU2	225	0.151	0.976	1		0	0	0	0
DISK	248	0.881	5.154	1		0	0	0	0

QUEUE	MAX	CONT.	ENTRY	ENTRY (0)	AVE. CONT.	AVE. TIME	AVE. (-0)	RETRY
A11	5	0	174	36	2.987	24.909	31.408	0
A2	2	0	422	402	0.007	0.023	0.479	0
A3	7	0	248	16	4.504	26.352	28.170	0

STORAGE	CAP.	REM.	MIN.	MAX.	ENTRIES	AVL.	AVE.C.	UTIL.	RETRY	DELAY
MEM	8	8	0	8	174	1	6.205	0.776	0	0

## Задание 2

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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      6,FN$ZEXP

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      TRANSFER .2,GOTO1,MET1
GOTO1      TRANSFER .25,GOTO2,MET2
GOTO2      TRANSFER .333,GOTO3,MET3
GOTO3      TRANSFER .5,MET4,MET5

```

```

MET1      TEST L Q$QU1,5,COUNTER
          QUEUE QU1
          SEIZE DISK1
          DEPART QU1
          ASSIGN 1,DISK1
          ADVANCE 15,15
          TRANSFER ,OUT

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MET2      TEST L Q$QU2,5,COUNTER
          QUEUE QU2
          SEIZE DISK2
          DEPART QU2
          ASSIGN 1,DISK2
          ADVANCE 15,15
          TRANSFER ,OUT

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MET3      TEST L Q$QU3,5,COUNTER
          QUEUE QU3
          SEIZE DISK3
          DEPART QU3
          ASSIGN 1,DISK3
          ADVANCE 15,15
          TRANSFER ,OUT

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MET4      TEST L Q$QU4,5,COUNTER
          QUEUE QU4
          SEIZE DISK4
          DEPART QU4
          ASSIGN 1,DISK4
          ADVANCE 15,15
          TRANSFER ,OUT

```

MET5        TEST L Q\$QU5,5,COUNTER  
             QUEUE QU5  
             SEIZE DISK5  
             DEPART QU5  
             ASSIGN 1,DISK5  
             ADVANCE 15,15

OUT         QUEUE QU6  
             SEIZE CAN  
             ADVANCE 1.7  
             RELEASE CAN  
             RELEASE P1  
             TERMINATE

COUNTER     TERMINATE  
             GENERATE 150000  
             TERMINATE 1  
             START 1

START TIME	END TIME	BLOCKS	FACILITIES	STORAGES
0.000	150000.000	48	6	0

NAME	VALUE
CAN	10006.000
COUNTER	46.000
DISK1	10012.000
DISK2	10004.000
DISK3	10010.000
DISK4	10008.000
DISK5	10002.000
GOTO1	3.000
GOTO2	4.000
GOTO3	5.000
MET1	6.000
MET2	13.000
MET3	20.000
MET4	27.000
MET5	34.000
OUT	40.000
QU1	10011.000
QU2	10003.000
QU3	10009.000
QU4	10007.000
QU5	10001.000
QU6	10005.000
ZEXP	10000.000

LABEL	LOC	BLOCK TYPE	ENTRY COUNT	CURRENT COUNT	RETRY
	1	GENERATE	23966	0	0
	2	TRANSFER	23966	0	0
GOTO1	3	TRANSFER	19162	0	0
GOTO2	4	TRANSFER	14257	0	0
GOTO3	5	TRANSFER	9568	0	0
MET1	6	TEST	4804	0	0
	7	QUEUE	4795	1	0
	8	SEIZE	4794	0	0
	9	DEPART	4794	0	0
	10	ASSIGN	4794	0	0
	11	ADVANCE	4794	1	0
	12	TRANSFER	4793	0	0

MET2	13	TEST	4905	0	0
	14	QUEUE	4896	0	0
	15	SEIZE	4896	0	0
	16	DEPART	4896	0	0
	17	ASSIGN	4896	0	0
	18	ADVANCE	4896	0	0
	19	TRANSFER	4896	0	0
MET3	20	TEST	4689	0	0
	21	QUEUE	4675	0	0
	22	SEIZE	4675	0	0
	23	DEPART	4675	0	0
	24	ASSIGN	4675	0	0
	25	ADVANCE	4675	0	0
	26	TRANSFER	4675	0	0
MET4	27	TEST	4750	0	0
	28	QUEUE	4737	1	0
	29	SEIZE	4736	0	0
	30	DEPART	4736	0	0
	31	ASSIGN	4736	0	0
	32	ADVANCE	4736	1	0
	33	TRANSFER	4735	0	0
MET5	34	TEST	4818	0	0
	35	QUEUE	4802	2	0
	36	SEIZE	4800	0	0
	37	DEPART	4800	0	0
	38	ASSIGN	4800	0	0
	39	ADVANCE	4800	1	0
OUT	40	QUEUE	23898	0	0
	41	SEIZE	23898	0	0
	42	ADVANCE	23898	0	0
	43	RELEASE	23898	0	0
	44	RELEASE	23898	0	0
	45	TERMINATE	23898	0	0
COUNTER	46	TERMINATE	61	0	0
	47	GENERATE	1	0	0
	48	TERMINATE	1	0	0

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
DISK5	4800	0.538	16.800	1	23963	0	0	0	2
DISK2	4896	0.552	16.903	1	0	0	0	0	0
CAN	23898	0.271	1.700	1	0	0	0	0	0
DISK4	4736	0.531	16.825	1	23960	0	0	0	1
DISK3	4675	0.524	16.806	1	0	0	0	0	0
DISK1	4794	0.541	16.939	1	23964	0	0	0	1

QUEUE	MAX	CONT.	ENTRY	ENTRY (0)	AVE. CONT.	AVE. TIME	AVE. (-0)	RETRY
QU5	5	2	4802	2156	0.407	12.709	23.064	0
QU2	5	0	4896	2120	0.423	12.967	22.871	0
QU6	23898	23898	23898	0	11985.021	75226.092	75226.092	0
QU4	5	1	4737	2187	0.390	12.343	22.929	0
QU3	5	0	4675	2169	0.367	11.763	21.943	0
QU1	5	1	4795	2165	0.399	12.470	22.736	0

FEC XN	PRI	BDT	ASSEM	CURRENT	NEXT	PARAMETER	VALUE
23968	0	150004.937	23968	0	1		
23960	0	150006.180	23960	32	33	1	10008.000
23963	0	150017.008	23963	39	40	1	10002.000
23964	0	150020.507	23964	11	12	1	10012.000
23969	0	300000.000	23969	0	47		