



## Организација рачунара – КЗ решење

### 1.(20)

```
LOAD #0000h
STORE MemSem0
STORE MemSem1
LOAD #0100h
OUT FF03h
OUT FF05h
STORE MemCntB
STORE MemCntC
LOAD #200h
STORE MemDstB
LOAD #300h
STORE MemDstC
LOAD #8000h
OUT FF30h
LOAD #8004h
OUT FF20h
LOAD #8000h
OUT FF10h
LOAD #8004h
OUT FF00h
Loop2: IN FF31h
AND #0002h
JZ Loop2
IN FF32h
STORE (MemDstC)
INC MemDstC
DEC MemCntC
JNZ Loop2
LOAD #0000h
OUT FF30h
Wait01: LOAD MemSem0
AND MemSem1
JZ Wait01
...
LOAD #100h
STORE MemCnt
STORE MemA
LOAD #200h
STORE MemB
LOAD #300h
STORE MemC
LOAD #400h
STORE MemD
Loop: LOAD (MemA)
ADD (MemB)
SUB (MemC)
STORE (MemD)
INC MemA
INC MemB
INC MemC
INC MemD
DEC MemCnt
JNZ Loop
...
LOAD #0000h
STORE MemSem0
LOAD #100h
OUT FF03h
LOAD #400h
OUT FF04h
LOAD #8040h
OUT FF10h
LOAD #8045h
OUT FF00h
Wait0: LOAD MemSem0
AND #0001h
JZ Wait0
HALT

Прекидна рутина за PER1:
PUSHA
IN FF22h
STORE (MemDstB)
INC MemDstB
DEC MemCntB
JNZ Back
LOAD #0001h
STORE MemSem1
LOAD #0000h
OUT FF20h
Back: POPA
RTI

Прекидна рутина за DMA:
PUSHA
LOAD #0000h
OUT FF10h
OUT FF00h
LOAD #0001h
STORE MemSem0
POPA
RTI
```

2. (20) Погледати материјале са предавања.