



## Организација рачунара – КЗ решење

### 1.(20)

```
LOAD #0000h
STORE MemSem0
LOAD #1000h
STORE MemCntB
OUT FF03h
OUT FF05h
LOAD #2000h
STORE MemDstB
LOAD #0010h
OUT FF30h
OUT FF10h
LOAD #0013h
OUT FF00h
Crdy: IN FF31h
      AND #8000h
      JZ Crdy
      IN FF32h
      STORE (MemDstB)
      INC MemDstB
      DEC MemCntB
      JNZ Crdy
      LOAD #0000h
      OUT FF30h
Wait: LOAD MemSem0
      AND #0001h
      JZ Wait
      ...
      LOAD #1000h
      STORE MemCnt
      STORE MemA
      LOAD #2000h
      STORE MemB
      LOAD #3000h
      STORE MemC
Loop: LOAD (MemA)
      ADD (MemB)
      STORE (MemC)
      INC MemA
      INC MemB
      INC MemC
      DEC MemCnt
      JNZ Loop
      ...
      LOAD #0000h
      STORE MemSem1
      LOAD #1000h
      STORE MemCntC
      LOAD #3000h
      STORE MemSrcC
      LOAD #8011h
      OUT FF20h
Wait1: LOAD MemSem1
      AND #0001h
      JZ Wait1
      HALT
Прекидна рутина за PER1:
      PUSHA
      LOAD (MemSrcC)
      OUT FF22h
      INC MemSrcC
      DEC MemCntC
      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.