



## Организација рачунара – К3 решење

### 1.(20)

```
LOAD #100h
STORE MemCntA
STORE MemDstA
LOAD #0001h
OUT FF10h
Loop0: IN FF11h
      AND #0020h
      JZ Loop0
      IN FF12h
      STORE (MemDstA)
      INC MemDstA
      DEC MemCntA
      JNZ Loop0
      LOAD #0000h
      OUT FF10h
      ...
LOAD #100h
STORE MemCnt
STORE MemA
LOAD #200h
STORE MemB
Loop:  LOAD (MemA)
      ADD (MemB)
      STORE (MemB)
      INC MemA
      INC MemB
      DEC MemCnt
      JNZ Loop
      ...
LOAD #100h
STORE MemCntB0
STORE MemCntB2
OUT FF03h
LOAD #200h
STORE MemSrcB0
STORE MemSrcB2
OUT FF04h
LOAD #0000h
STORE MemSem1
STORE MemSem2
LOAD #0003h
OUT FF10h
OUT FF20h
LOAD #000Bh
OUT FF30h
OUT FF00h

Loop01: IN FF11h
      AND #0020h
      JZ Loop01
      LOAD (MemSrcB0)
      OUT FF12h
      INC MemSrcB0
      DEC MemCntB0
      JNZ Loop01
      LOAD #0000h
      OUT FF10h
Wait12: LOAD MemSem1
      AND MemSem2
      JZ Wait12
      HALT

Прекидна рутина за PER2:
      PUSHA
      LOAD (MemSrcB2)
      OUT FF32h
      INC MemSrcB2
      DEC MemCntB2
      JNZ Back
      LOAD #0001h
      STORE MemSem2
      LOAD #0000h
      OUT FF30h
Back:  POPA
      RTI

Прекидна рутина за DMA:
      PUSHA
      LOAD #0000h
      OUT FF20h
      OUT FF00h
      LOAD #0001h
      STORE MemSem1
      POPA
      RTI
```

2. (20) Погледати материјале са предавања.