



Организација рачунара – КЗ решење

1.(20)

```
LOAD #0000h
STORE MemSem0
LOAD #0000h
STORE MemSem2
LOAD #0100h
STORE MemCntA
OUT FF03h
LOAD #1000h
STORE MemAdrA
LOAD #2000h
OUT FF05h
LOAD #01C0h
OUT FF10h
LOAD #01C2h
OUT FF00h
LOAD #00C0h
OUT FF30h
Wait: LOAD MemSem0
      AND MemSem2
      JZ Wait
      ...
LOAD #0100h
STORE MemCnt
LOAD #1000h
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 #0100h
STORE MemCntC

LOAD #3000h
STORE MemAdrC
LOAD #0080h
OUT FF20h
Crdy: IN FF21h
      AND #0010h
      JZ Crdy
LOAD (MemAdrC)
OUT FF22h
INC MemAdrC
DEC MemCntC
JNZ Crdy
LOAD #0000h
OUT FF20h
HALT

Прекидна рутина за PER0:
PUSHA
IN FF12h
STORE (MemAdrA)
INC MemAdrA
DEC MemCntA
JNZ Back
LOAD #0001h
STORE MemSem0
LOAD #0000h
OUT FF10h
Back: POPA
      RTI

Прекидна рутина за DMA:
PUSHA
LOAD #0000h
OUT FF30h
OUT FF00h
LOAD #0001h
STORE MemSem2
POPA
RTI
```

2. (20) Погледати материјале са предавања.