



Организација рачунара – КЗ решење

1.(20)

```
LOAD #0000h          INC MemB
STORE MemSem2        INC MemC
LOAD #0100h          DEC MemCnt
STORE MemCntA        JNZ Loop1
OUT FF03h            ...
LOAD #1000h          LOAD #0000h
STORE MemAdrA        STORE MemSem1
LOAD #1100h          LOAD #0100h
OUT FF05h            STORE MemCntC
LOAD #00C0h          LOAD #2000h
OUT FF10h            STORE MemAdrC
LOAD #01C0h          LOAD #0180h
OUT FF00h            OUT FF20h
LOAD #00C0h          Wait1: LOAD MemSem1
OUT FF30h            AND #0001h
IN FF11h              JZ Wait1
AND #0010h            HALT
JZ Crdy
IN FF12h
STORE (MemAdrA)
INC MemAdrA
DEC MemCntA
JNZ Crdy
LOAD #0000h
OUT FF10h
Wait:  LOAD MemSem2
AND #0001h
JZ Wait
...
LOAD #0100h
STORE MemCnt
LOAD #1000h
STORE MemA
LOAD #1100h
STORE MemB
LOAD #2000h
STORE MemC
Loop1: LOAD (MemA)
ADD (MemB)
STORE (MemC)
INC MemA

INC MemB
INC MemC
DEC MemCnt
JNZ Loop1
...
LOAD #0000h
STORE MemSem1
LOAD #0100h
STORE MemCntC
LOAD #2000h
STORE MemAdrC
LOAD #0180h
OUT FF20h
Wait1: LOAD MemSem1
AND #0001h
JZ Wait1
HALT

Прекидна рутина за PER1:
PUSHA
LOAD (MemAdrC)
OUT FF22h
INC MemAdrC
DEC MemCntC
JNZ Back
LOAD #0001h
STORE MemSem1
LOAD #0000h
OUT FF20h
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.