



Организација рачунара – КЗ решење

1.(20)

```
LOAD #0000h
STORE MemSem0
STORE MemSem2
LOAD #100h
STORE MemCntA
OUT FF03h
STORE MemDstA
LOAD #200h
OUT FF05h
LOAD #0101h
OUT FF10h
LOAD #0001h
OUT FF30h
LOAD #0101h
OUT FF00h
Wait02: LOAD MemSem0
AND MemSem2
JZ Wait02
...
LOAD #100h
STORE MemCnt
STORE MemA
LOAD #200h
STORE MemB
LOAD #300h
STORE MemC
Loop: LOAD (MemA)
ADD (MemB)
STORE (MemC)
INC MemA
INC MemB
INC MemC
DEC MemCnt
JNZ Loop

...
LOAD #0000h
STORE MemSem2
LOAD #100h
OUT FF03h
STORE MemCntC
LOAD #300h
OUT FF04h
STORE MemSrcC
LOAD #0011h
OUT FF20h
LOAD #0011h
OUT FF30h
LOAD #0111h
OUT FF00h
Loop0: IN FF21h
AND #8000h
JZ Loop0
LOAD (MemSrcC)
OUT FF22h
INC MemSrcC
DEC MemCntC
JNZ Loop0
LOAD #0000h
OUT FF20h
Wait2: LOAD MemSem2
AND #0001h
JZ Wait2
HALT

Прекидна рутина за PER0:
PUSHA
IN FF12h
STORE (MemDstA)
INC MemDstA
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.