



Организација рачунара – К3 решење

1.(20)

```
LOAD #0000h
STORE MemSem1
LOAD #0100h
STORE MemCntA
STORE MemDstA
STORE FF03h
LOAD #0200h
STORE FF05h
LOAD #0080h
STORE FF20h
STORE FF10h
LOAD #0082h
STORE FF00h
Loop0: LOAD FF11h
AND #8000h
JZ Loop0
LOAD FF12h
STORE (MemDstA)
INC MemDstA
DEC MemCntA
JNZ Loop0
LOAD #0000h
STORE FF10h
Wait1: LOAD MemSem1
AND #0001h
JZ Wait1
...
LOAD #0100h
STORE MemCnt
STORE MemA
LOAD #0200h
STORE MemB
LOAD #0300h
STORE MemC
Loop: LOAD (MemA)
SUB (MemB)
STORE (MemC)
INC MemA
INC MemB
INC MemC
DEC MemCnt
JNZ Loop
...
LOAD #0000h
STORE MemSem1
STORE MemSem2
LOAD #0100h
STORE MemCntC
STORE FF03h
LOAD #0300h
STORE MemSrcC
STORE FF04h
LOAD #0084h
STORE FF20h
LOAD #0086h
STORE FF30h
LOAD #0086h
STORE FF00h
Wait12: LOAD MemSem1
AND MemSem2
JZ Wait12
HALT

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

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

2. (20) Погледати материјале са предавања.