



Организација рачунара – К3 решење

1.(20)

```
LOAD #0000h
STORE MemSem1
LOAD #0100h
STORE MemCntA
STORE MemCntB
STORE MemDstA
LOAD #0200h
STORE MemDstB
LOAD #0001h
OUT FF30h
LOAD #0101h
OUT FF20h
Loop2: IN FF31h
AND #1000h
JZ Loop2
IN FF32h
STORE (MemDstB)
INC MemDstB
DEC MemCntB
JNZ Loop2
LOAD #0000h
OUT FF30h
Wait1: LOAD MemSem1
AND #0001h
JZ Wait1
...
LOAD #0100h
STORE MemCnt
STORE MemA
LOAD #0200h
STORE MemB
LOAD #0300h
STORE MemC
Loop: LOAD (MemA)
ADD (MemB)
STORE (MemC)
INC MemA
INC MemB
INC MemC
DEC MemCnt
JNZ Loop
...
LOAD #0000h
STORE MemSem0
LOAD #0100h
OUT FF03h
LOAD #0300h
OUT FF04h
LOAD #0011h
OUT FF10h
LOAD #8111h
OUT FF00h
Wait0: LOAD MemSem0
AND #0001h
JZ Wait0
HALT

Прекидна рутина за PER1:
PUSHA
IN FF22h
STORE (MemDstA)
INC MemDstA
DEC MemCntA
JNZ Back
LOAD #0001h
STORE MemSem1
LOAD #0000h
OUT FF20h
Back: POPA
RTI

Прекидна рутина за DMA:
PUSHA
LOAD #0000h
OUT FF10h
OUT FF00h
LOAD #0001h
STORE MemSem0
POPA
RTI
```

2. (20) Погледати материјале са предавања.