



## Организација рачунара – КЗ решење

### 1.(20)

```
LOAD #0h
STORE MemSem0
LOAD #100h
STORE MemCntA
STORE MemCntB
STORE MemDstA
LOAD #0200h
STORE MemDstB
LOAD #00C0h
OUT FF20h
LOAD #01C0h
OUT FF10h
ChRdy: IN FF21h
AND #0010h
JZ ChRdy
IN FF22h
STORE (MemDstB)
INC MemDstB
DEC MemCntB
JNZ ChRdy
LOAD #0000h
OUT FF20h
WaitA: LOAD MemSem0
AND #1
JZ WaitA
...
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 #0h
STORE MemSem2
LOAD #0100h
OUT FF03h
LOAD #0300h
OUT FF04h
LOAD #0182h
OUT FF00h
LOAD #0080h
OUT FF30h
WaitC: LOAD MemSem2
AND #1
JZ WaitC
HALT

Прекидна рутина за PER0:
PUSHA
IN FF12h
STORE (MemDstA)
INC MemDstA
DEC MemCntA
JNZ Back
LOAD #1
STORE MemSem0
LOAD #0000h
OUT FF10h
Back: POPA
RTI

Прекидна рутина за DMA:
PUSHA
LOAD #0000h
OUT FF30h
OUT FF00h
LOAD #1
STORE MemSem2
POPA
RTI
```

2. (20) Погледати материјале са предавања.