



Организација рачунара – К3 решење

1.(20)

```
LOAD #0000h
STORE MemSem0
LOAD #0100h
STORE MemCntB
OUT FF03h
LOAD #0200h
STORE MemDstB
LOAD #0100h
OUT FF05h
LOAD #0080h
OUT FF20h
OUT FF10h
LOAD #0082h
OUT FF00h
Loop1: IN FF21h
AND #8000h
JZ Loop1
IN FF22h
STORE (MemDstB)
INC MemDstB
DEC MemCntB
JNZ Loop1
LOAD #0000h
OUT FF20h
Wait0: LOAD MemSem0
AND #0001h
JZ Wait0
...
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 MemSem2
LOAD #0100h
STORE MemCntC1
STORE MemCntC2
LOAD #0300h
STORE MemSrcC1
STORE MemSrcC2
LOAD #0084h
OUT FF20h
LOAD #0086h
OUT FF30h
Loop2: IN FF21h
AND #8000h
JZ Loop2
LOAD (MemSrcC1)
OUT FF22h
INC MemSrcC1
DEC MemCntC1
JNZ Loop2
LOAD #0000h
OUT FF20h
Wait2: LOAD MemSem2
AND #0001h
JZ Wait2
HALT
Прекидна рутина за PER2:
PUSHA
LOAD (MemSrcC2)
OUT FF32h
INC MemSrcC2
DEC MemCntC2
JNZ Back
LOAD #0001h
STORE MemSem2
LOAD #0000h
OUT FF30h
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.