



Електротехнички факултет у Београду
Катедра за рачунарску технику и информатику

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Организација рачунара – К3 решење

1.(20)

LOAD #100h
STORE MemCntA
STORE MemCntB
STORE MemAdrA
LOAD #200h
STORE MemAdrB
LOAD #0h
STORE MemSemB
LOAD #1h
STORE FF10h
LOAD #11h
STORE FF20h
Crdy: LOAD FF11h
AND #20h
JZ Crdy
LOAD FF12h
STORE (MemAdrA)
INC MemAdrA
DEC MemCntA
JNZ Crdy
LOAD #0h
STORE FF10h
WaitB: LOAD MemSemB
CMP #1
JNZ WaitB
...
LOAD #100h
STORE Cnt
STORE MemAdrA
LOAD #200h
STORE MemAdrB
LOAD #300h
STORE MemAdrC
LOOP: LOAD (MemAdrA)
ADD (MemAdrB)
STORE (MemAdrC)
INC MemAdrA
INC MemAdrB
INC MemAdrC
DEC Cnt

JNZ Loop
...
LOAD #0h
STORE MemSemDMA
LOAD #100h
STORE FF03h
LOAD #300h
STORE FF04h
LOAD #5h
STORE FF30h
LOAD #15h
STORE FF00h
WDMA: LOAD MemSemDMA
CMP #1
JNZ WDMA
HALT

Прекидна рутина за PER1:
PUSH A
LOAD FF22h
STORE (MemAdrB)
INC MemAdrB
DEC MemCntB
JNZ Back
LOAD #1
STORE MemSemB
LOAD #0
STORE FF20h
Back: POP A
RTI

Прекидна рутина за DMA:
PUSH A
LOAD #0h
STORE FF30h
STORE FF00h
LOAD #1h
STORE MemSemDMA
POP A
RTI

2. (20) Погледати материјале са предавања.