



Организација рачунара – КЗ решење

1.(20)

LOAD #0h	Loop:	LOAD (MemA)
STORE MemSem0		SUB (MemB)
STORE MemSem2		ADD (MemC)
LOAD #1000h		STORE (MemA)
STORE MemCnt0		INC MemA
STORE MemCnt1		INC MemB
STORE FF03h		INC MemC
LOAD #2000h		DEC MemCnt
STORE MemDst0		JNZ Loop
LOAD #3000h		...
STORE MemDst1		LOAD #0h
LOAD #4000h		STORE MemSem2
STORE FF05h		LOAD #1000h
LOAD #11h		STORE FF03h
STORE FF10h		LOAD #2000h
LOAD #1h		STORE FF04h
STORE FF20h		LOAD #5h
STORE FF30h		STORE FF30h
LOAD #31h		LOAD #15h
STORE FF00h		STORE FF00h
Crdy: LOAD FF21h	Wait2:	LOAD MemSem2
AND #20h		CMP #1
JZ Crdy		JNZ Wait2
LOAD FF22h		HALT
STORE (MemDst1)	Прекидна рутина за PER0:	
INC MemDst1		PUSHA
DEC MemCnt1		LOAD FF12h
JNZ Crdy		STORE (MemDst0)
LOAD #0h		INC MemDst0
STORE FF20h		DEC MemCnt0
Wait0: LOAD MemSem0		JNZ Back
CMP #1		LOAD #1
JNZ Wait0		STORE MemSem0
Wait1: LOAD MemSem2		LOAD #0
CMP #1		STORE FF10h
JNZ Wait1	Back:	POPA
...		RTI
LOAD #1000h	Прекидна рутина за DMA:	
STORE MemCnt		PUSHA
LOAD #2000h		LOAD #0h
STORE MemA		STORE FF30h
LOAD #3000h		STORE FF00h
STORE MemB		LOAD #1h
LOAD #4000h		STORE MemSem2
STORE MemC		POPA
		RTI

2. (20) Погледати материјале са предавања.