



# Microprogramming

- Datapath remains the same
- Control is specified differently but does the same
- Each cycle a microprogram field specifies required control signals

Label	Alu	Src1	Src2	Reg	Memory	Pcwrite	Next?
Fetch	Add	Pc	4	Read pc	ALU	ALU	+1
	Add	Pc	Extshft	Read			Dispatch 1
Mem1	Add	A	Extend				Dispatch 2
Lw2					Read ALU		+1
				Write mdr			fetch
SW2					Write ALU		
Rformat	Func code	A	B				+1
				Write ALU			Fetch
Beq1	Subt	A	B			ALUout-Cond	Fetch

# Microprogramming Techniques With Sample Programs

**Norman E. Sondak, Efrem Mallach**



## **Microprogramming Techniques With Sample Programs:**

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