



# 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

**M Mosston**



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

*Microprogramming Techniques with Sample Programs* Stanley J. Evans, 1979      *Microprogramming Techniques with Sample Programs* Stanley J. Evans, 1979      **Micro-programming** Norman E. Sondak, Efrem Mallach, 1977

**Programming Microcomputers with Sample Programs** Stanley J. Evans, 1980 Microprogramming theory and examples Useful programs in basic and reference tables      **Encyclopedia of Microcomputers** Allen Kent, James G. Williams, 1987-10-01 The Encyclopedia of Microcomputers serves as the ideal companion reference to the popular Encyclopedia of Computer Science and Technology Now in its 10th year of publication this timely reference work details the broad spectrum of microcomputer technology including microcomputer history explains and illustrates the use of microcomputers throughout academe business government and society in general and assesses the future impact of this rapidly changing technology      **Advances in Microprogramming** Efrem Mallach, Norman E. Sondak, 1983      **Tutorial, Microprogramming and Firmware Engineering** Veljko Milutinović, 1989      **Encyclopedia of Computer Science and Technology** Allen Kent, James G. Williams, Albert G. Holzman, 1987-03-19 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions      Library of Congress Catalogs Library of Congress, 1980  
Preprints ,      Subject Catalog, 1979 Library of Congress, 1979      **Microcomputers and Microprocessors** , 1979  
**Microprogramming and Firmware Engineering Methods** Stanley Habib, 1988 Discusses microprogramming theory applications and methodology      **Subject Catalog** Library of Congress,      *New Technical Books* New York Public Library, 1988      Scientific and Technical Aerospace Reports , 1970      *Programming Languages - Microprogramming* Richard L. Wexelblat, 1973      **InfoWorld** , 1979-06-25 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects      **IBM Journal of Research and Development** , 1985      **Digital Design** , 1980

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