

## 8085 T-State

| Instruction   | T-State  |
|---|--|
| MOV ds, rs<br>DAA, SUB r, SBB r, ADD r, ADC r, DCR r, INR r<br>STC, CMA, CMC, CMP r, ANA r, ORA r, XRA r, RAL, RAR, RLC, RRC<br>NOP, EI, DI, RIM, SIM, XCHG | 4  |
| HLT   | 5  |
| DCX rp, INX rp<br>PCHL, SPHL  | 6  |
| MOV r, m. MOV m, r. MVI r, byte<br>SUI, SBI, ADI, ACI, SUB m, SBB m, ADD m, ADC m<br>CPI, ANI, ORI, XRI, ANA m, ORA m, XRA m<br>LDAX, STAX                  | 7  |
| IN, OUT, POP<br>LXI, DAD, DCR m, INR m<br>RET, JMP, MVI m, byte   | 10   |
| CONDITIONAL JUMP (Note: UNCONDITIONAL JUMP 10 T-State)  | 10/7<br>(IF CONDITION HAPPENED THEN 10 T-State<br>OTHERWISE 7 T-State) |
| PUSH, RST   | 12   |
| CONDITIONAL RET (Note: UNCONDITIONAL RET 10 T-State)  | 12/6<br>(IF CONDITION HAPPENED THEN 12 T-State<br>OTHERWISE 6 T-State) |
| LDA, STA  | 13   |
| LHLD, SHLD, XTHL  | 16   |
| CALL  | 18   |
| CONDITIONAL CALL (Note: UNCONDITIONAL CALL 18 T-State)  | 18/9<br>(IF CONDITION HAPPENED THEN 18 T-State<br>OTHERWISE 9 T-State) |

