|  |  |  |  |
| --- | --- | --- | --- |
| **Адрес** | **Мнемокод** | **Код** | **Примечание** |
| 000 | RD #10 | 211010 | АСС ← 10 |
| 001 | DIV #5 | 261005 | АСС ← АСС / 5 |
| 002 | WR 20 | 220220 | М(20) ← ACC |
| 003 | WR @20 | 222020 | АСС ← М(М(20)) |
| 004 | JMP 000 | 100000 | Переход к команде по адресу 000 |

|  |  |  |  |
| --- | --- | --- | --- |
| PC | ACC | M(20) |  |
| 001 | 000010 |  |  |
| 002 | 000002 |  |  |
| 003 | 000002 | 000002 |  |
| 004 | 000002 |  |  |
| 000 | 000002 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Адрес (РС)** | **Мнемокод** | **Микрокоманда** | **ОЗУ** | **CR** | **АУ** | **Ячейки** |
| **MAR** | **MDR** | **COP** | **TA** | **ADR** | **Acc** | **DR** | **000** | **020** |
| **000** | **RD #10** | MAR := PC | 01 | 261005 | 26 | 01 | 005 | 000000 | 000005 | 211010 | 000000 |
|  |  | MRd |  |  |  |  |  |  |  | 261005 | 000000 |
|  |  | CR := MDR |  |  |  |  |  |  |  | 220020 | 000000 |
|  |  | PC := PC+1 |  |  |  |  |  |  |  | 222020 | 000000 |
|  |  | Acc := ADR |  |  |  |  |  |  |  | 100000 | 000000 |
| **001** | **DIV #5** | MAR := PC | 001 | 261005 | 26 | 1 | 005 | 000002 | 000005 | 211010 | 000000 |
|  |  | MRd |  |  |  |  |  |  |  | 261005 | 000000 |
|  |  | CR := MDR |  |  |  |  |  |  |  | 220020 | 000000 |
|  |  | PC := PC+1 |  |  |  |  |  |  |  | 222020 | 000000 |
|  |  | Acc := ADR |  |  |  |  |  |  |  | 100000 | 000000 |
|  |  | DR: = ADR |  |  |  |  |  |  |  |  |  |
|  |  | ALU ← COP |  |  |  |  |  |  |  |  |  |
|  |  | Start ALU |  |  |  |  |  |  |  |  |  |
| **002** | **WR 20** | MAR := PC | 020 | 000002 | 22 | 0 | 020 | 000002 | 000005 | 211010 | 000000 |
|  |  | MRd |  |  |  |  |  |  |  | 261005 | 000000 |
|  |  | CR := MDR |  |  |  |  |  |  |  | 220020 | 000000 |
|  |  | PC := PC+1 |  |  |  |  |  |  |  | 222020 | 000000 |
|  |  | MAR := ADR |  |  |  |  |  |  |  | 100000 | 000000 |
|  |  | MDR:=Acc |  |  |  |  |  |  |  |  |  |
|  |  | MWr |  |  |  |  |  |  |  |  |  |
| **003** | **WR @20** | MAR := PC | 002 | 000002 | 22 | 2 | 020 | 000002 | 000005 | 211010 | 000002 |
|  |  | MRd |  |  |  |  |  |  |  | 261005 | 000000 |
|  |  | CR := MDR |  |  |  |  |  |  |  | 220020 | 000000 |
|  |  | PC := PC+1 |  |  |  |  |  |  |  | 222020 | 000000 |
|  |  | MAR := ADR |  |  |  |  |  |  |  | 100000 | 000000 |
|  |  | MRd |  |  |  |  |  |  |  |  |  |
|  |  | RA := MDR |  |  |  |  |  |  |  |  |  |
|  |  | MAR := RA |  |  |  |  |  |  |  |  |  |
|  |  | MDR:=Acc |  |  |  |  |  |  |  |  |  |
|  |  | MWr |  |  |  |  |  |  |  |  |  |
| **004** | **JMP 000** | MAR := PC | 020 | 000002 | 22 | 2 | 020 | 000002 | 000005 | 211010 | 000002 |
|  |  | MRd |  |  |  |  |  |  |  | 261005 | 000000 |
|  |  | CR := MDR |  |  |  |  |  |  |  | 220020 | 000000 |
|  |  | PC := PC+1 |  |  |  |  |  |  |  | 222020 | 000000 |
|  |  | MAR := ADR |  |  |  |  |  |  |  | 100000 | 000000 |
|  |  | MRd |  |  |  |  |  |  |  |  |  |
|  |  | RA := MDR |  |  |  |  |  |  |  |  |  |
|  |  | MAR := RA |  |  |  |  |  |  |  |  |  |
|  |  | MDR:=Acc |  |  |  |  |  |  |  |  |  |
|  |  | MWr |  |  |  |  |  |  |  |  |  |