Format ukaza

## Preizkusni program: vsota dveh števil

|  |  |  |  |
| --- | --- | --- | --- |
| Naslov | Oznaka | Ukaz v zbirniku | Strojni ukaz |
| 0x0000 | main: | MOV  R0, #0x20 | e020 |
| 0x0001 |  | LDRH  R1, [R0] | 4400 |
| 0x0002 |  | MOV  R0, #0x21 | e021 |
| 0x0003 |  | LDRH  R2, [R0] | 4800 |
| 0x0004 |  | ADD R2, R2, R1 | 2900 |
| 0x0005 |  | MOV  R0, #0x22 | e022 |
| 0x0006 |  | STRH  R2, [R0] | 5800 |
| 0x0007 | inf: | B inf | f007 |
| … |  |  |  |
| 0x0020 |  | 0x10 = 16 | 0010 |
| 0x0021 |  | 0x40 = 64 | 0040 |
| 0x0022 |  | ? = 0x50 = 80 | 0050 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **op1** | **op2** | **ARM9 zapis** | **pc**  **sel** | **pc**  **load** | **ir**  **load** | **datawrite** | **d**  **write** | **addr**  **sel** | **reg**  **sel** | **d**  **reg** | **s**  **reg** | **aluop** |
| xx | xx | FETCH - vsi ukazi | **1(pc+1)** | **1** | **1** | **0** | **0** | **0(pc)** |  |  |  |  |
| 00 | 10 | ADD Rd, Rd, Rs |  | 0 | 0 | 0 | **1** |  | **3(ALU)** | Rd | Rs | **op2=0b10** |
| 01 | 00 | LDRH  Rd, [Rs] |  | 0 | 0 | 0 | **1** | **2(Rs)** | **2(Dbus)** | **Rd** | Rs |  |
| 01 | 01 | STRH  Rd, [Rs] |  | 0 | 0 | **1** | 0 | **2(Rs)** |  | **Rd** | Rs |  |
| 11 | 10 | MOV  Rd, #immed |  | 0 | 0 | 0 | **1** |  | **1 (IM)** | **Rd** |  |  |
| 11 | 11 | B immed | **0(IM)** | **1** | 0 | 0 | 0 |  |  |  |  |  |

