ΚΑΤΑΧΩΡΗΤΕΣ

SP:1111

BR:1110

LR:1101

X:1100

PC:1011

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| **BOOTSTRAP** | BRA | BIN | CON | I | I | I | APORT | BPORT | DDATA | SH~ | SELB | MWE~ | MARCLK | MSTATUS | LDS~ | PCE~ | CARRYE~ | MDE~ | DDATAE~ | **ADDRESS** |
|  | (4:0) | (2:0) | (2:0) | (2:0) | (5:3) | (8:6) | (3:0) | (3:0) | (1:0) |  |  |  |  |  |  |  |  |  |  |  |
| SW+0->PC,MAR | xxxxx | 000 | χχχ | 111 | 000 | 011 | χχχχ | 0001 | χχ | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | m00 |
| NEXT(PC) | xxxxx | 000 | χχχ | χχχ | χχχ | 001 | χχχχ | χχχχ | χχ | χ | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | m01 |

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| **LDLR #K** | BRA | BIN | CON | I | I | I | APORT | BPORT | DDATA | SH~ | SELB | MWE~ | MARCLK | MSTATUS | LDS~ | PCE~ | CARRYE~ | MDE~ | DDATAE~ | **ADDRESS** |
|  | (4:0) | (2:0) | (2:0) | (2:0) | (5:3) | (8:6) | (3:0) | (3:0) | (1:0) |  |  |  |  |  |  |  |  |  |  |  |
| PC+1->PC,MAR | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1011 | 1011 | 01 | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m08 |
| MDR+0->LR | xxxxx | 000 | χχχ | 111 | 000 | 011 | χχχχ | 1101 | χχ | Χ | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | m07 |
| PC+1->PC,MAR | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1011 | 1011 | 01 | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m08 |
| NEXT(PC) | xxxxx | 000 | χχχ | χχχ | χχχ | 001 | χχχχ | χχχχ | χχ | χ | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | m09 |

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| **LDBR #K** | BRA | BIN | CON | I | I | I | APORT | BPORT | DDATA | SH~ | SELB | MWE~ | MARCLK | MSTATUS | LDS~ | PCE~ | CARRYE~ | MDE~ | DDATAE~ | **ADDRESS** |
|  | (4:0) | (2:0) | (2:0) | (2:0) | (5:3) | (8:6) | (3:0) | (3:0) | (1:0) |  |  |  |  |  |  |  |  |  |  |  |
| PC+1->PC,MAR | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1011 | 1011 | 01 | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m08 |
| MDR+0->BR | xxxxx | 000 | χχχ | 111 | 000 | 011 | χχχχ | 1110 | χχ | Χ | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | m07 |
| PC+1->PC,MAR | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1011 | 1011 | 01 | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m08 |
| NEXT(PC) | xxxxx | 000 | χχχ | χχχ | χχχ | 001 | χχχχ | χχχχ | χχ | χ | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | m09 |

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| **POP $K** | BRA | BIN | CON | I | I | I | APORT | BPORT | DDATA | SH~ | SELB | MWE~ | MARCLK | MSTATUS | LDS~ | PCE~ | CARRYE~ | MDE~ | DDATAE~ | **ADDRESS** |
|  | (4:0) | (2:0) | (2:0) | (2:0) | (5:3) | (8:6) | (3:0) | (3:0) | (1:0) |  |  |  |  |  |  |  |  |  |  |  |
| PC+1->PC,MAR | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1011 | 1011 | 01 | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m08 |
| MDR+0-> X | xxxxx | 000 | χχχ | 111 | 000 | 011 | χχχχ | 1100 | χχ | Χ | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | m0B |
| X+0->NOP,MAR | xxxxx | 000 | χχχ | 100 | 000 | 001 | 1100 | χχχχ | χχ | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | m0C |
| SP-BR->FB ! | XXXXX | 000 | XXX | 101 | 001 | 011 | 1111 | 1110 | XX | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | m10 |
| BRZ,0011 | 00011 | 011 | 011 | xxx | xxx | xxx | χχχχ | xxxx | χχ | Χ | x | x | x | x | x | x | x | x | x | m1C |
| SP+1->SP | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1111 | 1111 | 01 | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m0F |
| MDR+0-> FB | xxxxx | 000 | χχχ | 111 | 000 | 011 | χχχχ | xxxx | χχ | Χ | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | m0B |
| PC+1->PC,MAR | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1011 | 1011 | 01 | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m08 |
| NEXT(PC) | xxxxx | 000 | χχχ | χχχ | χχχ | 001 | χχχχ | χχχχ | χχ | χ | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | m11 |

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| **SUB** | BRA | BIN | CON | I | I | I | APORT | BPORT | DDATA | SH~ | SELB | MWE~ | MARCLK | MSTATUS | LDS~ | PCE~ | CARRYE~ | MDE~ | DDATAE~ | **ADDRESS** |
|  | (4:0) | (2:0) | (2:0) | (2:0) | (5:3) | (8:6) | (3:0) | (3:0) | (1:0) |  |  |  |  |  |  |  |  |  |  |  |
| BR-SP->FB ! | XXXXX | 000 | XXX | 101 | 001 | 011 | 1110 | 1111 | XX | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | m10 |
| BRN 0111 | 001s11 | 011 | 010 | xxx | xxx | xxx | χχχχ | xxxx | χχ | Χ | x | x | x | x | x | x | x | x | x | m0B |
| SP+0->SP | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1111 | 1111 | XX | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m0F |
| FB+0->X | xxxxx | 000 | χχχ | 101 | 000 | 011 | xxxx | 1100 | XX | Χ | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m0F |
| SP+0->SP | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1111 | 1111 | XX | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m0F |
| FB+0->X | xxxxx | 000 | χχχ | 101 | 000 | 011 | xxxx | 1100 | XX | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m0F |
| SP+1->SP | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1111 | 1111 | 01 | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m0F |
| X-FR->X | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1100 | xxxx | XX | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m0F |
| SP+0->SP | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1111 | 1111 | XX | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m0F |
| X+0->FB!!! | xxxxx | 000 | χχχ | 101 | 011 | 011 | 1100 | χχχχ | χχ | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |  |
| PC+1->PC,MAR | xxxxx | 000 | χχχ | 101 | 000 | 011 | 1011 | 1011 | 01 | Χ | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | m08 |
| NEXT(PC) | xxxxx | 000 | χχχ | χχχ | χχχ | 001 | χχχχ | χχχχ | χχ | χ | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | m11 |