MIPS 32 R1指令参考列表（89条指令）

GREEN 本表和大赛指令集都有的指令

RED 仅本表有的指令

YELLOW 仅大赛指令集有的指令

|  |  |  |  |
| --- | --- | --- | --- |
| 逻辑操作 |  |  |  |
| 1 | and |  |  |
| 2 | andi |  |  |
| 3 | or |  |  |
| 4 | ori |  |  |
| 5 | xor |  |  |
| 6 | xori |  |  |
| 7 | nor |  |  |
| 8 | lui |  |  |
| 移位操作 |  |  |  |
| 9 | sll |  |  |
| 10 | sllv |  |  |
| 11 | sra |  |  |
| 12 | srav |  |  |
| 13 | srl |  |  |
| 14 | srlv |  |  |
| 移动操作 |  |  |  |
| 15 | movn |  |  |
| 16 | movz |  |  |
| 17 | mfhi |  |  |
| 18 | mthi |  |  |
| 19 | mflo |  |  |
| 20 | mtlo |  |  |
| 算数操作 |  |  |  |
| 21 | add |  |  |
| 22 | addi |  |  |
| 23 | addiu |  |  |
| 24 | addu |  |  |
| 25 | sub |  |  |
| 26 | subu |  |  |
| 27 | clo |  |  |
| 28 | clz |  |  |
| 29 | slt |  |  |
| 30 | slti |  |  |
| 31 | sltiu |  |  |
| 32 | sltu |  |  |
| 33 | mul |  |  |
| 34 | mult |  |  |
| 35 | multu |  |  |
| 36 | madd |  |  |
| 37 | maddu |  |  |
| 38 | msub |  |  |
| 39 | msubu |  |  |
| 40 | div |  |  |
| 41 | divu |  |  |
| 转移指令 |  |  |  |
| 42 | jr |  |  |
| 43 | jalr |  |  |
| 44 | j |  |  |
| 45 | jal |  |  |
| 46 | b |  |  |
| 47 | bal |  |  |
| 48 | beq |  |  |
| 49 | bgez |  |  |
| 50 | bgezal |  |  |
| 51 | bgtz |  |  |
| 52 | blez |  |  |
| 53 | bltz |  |  |
| 54 | bltzal |  |  |
| 55 | bne |  |  |
| 加载存储 |  |  |  |
| 56 | lb |  |  |
| 57 | lbu |  |  |
| 58 | lh |  |  |
| 59 | lhu |  |  |
| 60 | ll |  |  |
| 61 | lw |  |  |
| 62 | lwl |  |  |
| 63 | lwr |  |  |
| 64 | sb |  |  |
| 65 | sc |  |  |
| 66 | sh |  |  |
| 67 | sw |  |  |
| 68 | swl |  |  |
| 69 | swr |  |  |
| 协处理器访问 |  |  |  |
| 70 | mtc0 |  |  |
| 71 | mfc0 |  |  |
| 异常处理 |  |  |  |
| 72 | teq |  |  |
| 73 | tge |  |  |
| 74 | tgeu |  |  |
| 75 | tlt |  |  |
| 76 | tltu |  |  |
| 77 | tne |  |  |
| 78 | teqi |  |  |
| 79 | tgei |  |  |
| 80 | tgeiu |  |  |
| 81 | tlti |  |  |
| 82 | tltiu |  |  |
| 83 | tnei |  |  |
| 84 | syscall |  |  |
| 85 | eret |  |  |
| \* | break |  |  |
| 其他指令 |  |  |  |
| 86 | nop |  |  |
| 87 | ssnop |  |  |
| 88 | sync |  |  |
| 89 | pref |  |  |