

Multiplexadores do Data Flow

ALU MUX

ADD	000
AND	001
OR	010
PASS B(LSL)	011
SUB	100
XOR	101
NOR	110
PASS B(LSR)	111

ALU B

READ DATA 2	00
ALU PC (PC + 4)	01
PC	10
Sign extended	11

ALU PC

4	0
Imediato	1

PC

ALU	0
ALU PC	1

READ REGISTER 1

Instruction(9:5)	0
Monitor	1

READ REGISTER 2

Instruction(20:16)	0
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Instruction(4:0)	1
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WRITE REGISTER

Instruction(4:0)	0
11110	1

WRITE DATA INSTRUCTION

ALU	00
Read Data Memory	01
MUL/DIV	10
STXR Try	11

WRITE DATA MEMORY

STURB	00
STURH	01
STURW	10
STUR	11

READ DATA MEMORY

LDURB	00
LDURH	01
LDURW	10
LDUR	11