Outputs	Input values (S[3-0])									
	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001
PCWrite	1	0	0	0	0	0	0	0	0	1
PCWriteCond	0	0	0	0	0	0	0	0	1	0
IorD	0	0	0	1	0	1	0	0	0	0
MemRead	1	0	0	1	0	0	0	0	0	0
MemWrite	0	0	0	0	0	1	0	0	0	0
IRWrite	1	0	0	0	0	0	0	0	0	0
MemtoReg	0	0	0	0	1	0	0	0	0	0
PCSource1	0	0	0	0	0	0	0	0	0	1
PCSource0	0	0	0	0	0	0	0	0	1	0
ALUOp1	0	0	0	0	0	0	1	0	0	0
ALUOp0	0	0	0	0	0	0	0	0	1	0
ALUSrcB1	0	1	1	0	0	0	0	0	0	0
ALUSrcB0	1	1	0	0	0	0	0	0	0	0
ALUSrcA	0	0	1	0	0	0	1	0	1	0
RegWrite	0	0	0	0	1	0	0	1	0	0
RegDst	0	0	0	0	0	0	0	1	0	0

FIGURE D.3.6 The truth table for the 16 datapath control outputs, which depend only on the state inputs. The values are determined from Figure D.3.4. Although there are 16 possible values for the 4-bit state field, only ten of these are used and are shown here. The ten possible values are shown at the top; each column shows the setting of the datapath control outputs for the state input value that appears at the top of the column. For example, when the state inputs are 0011 (state 3), the active datapath control outputs are lorD or MemRead.

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