TITLE        Driver select signals for U13, U14, U22 & U23.
PATTERN
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CHIP DUAL_8  PALCE22V10 ; Device not selected

;---------------------------------- PIN Declarations ---------------
;----- INPUT SIGNALS -------
PIN 1  DUAL                      ;High if back to back 8 bit bytes required
PIN 2  W_LOW                     ;S100 low byte write, From ISA_SEL.GAL
PIN 3  W_HIGH                    ;S100 high byte write, From ISA_SEL.GAL
PIN 4  R_LOW                     ;S100 low byte read, From ISA_SEL.GAL
PIN 5  R_HIGH                    ;S100 high byte read, From ISA_SEL.GAL
PIN 6  bpDBIN                    ;$100 bus CPU read
PIN 7  bpiWR                     ;$100 bus CPU write
PIN 8  ISA_SEL                   ;ISA board select
PIN 9  RD8                       ;Output from ABC_PAL (Currently Unused)
PIN 10 WR16                      ;Output from ABC_PAL (Active LOW)
PIN 11 WR8                       ;Output from ABC_PAL (Currently Unused)
PIN 12 GAL_A0                    ;ISA A0 line
PIN 13 SHIFT_X                   ;To delay U13 LE & OE (use P15 15-16, & K3 1-2)

;----- OUTPUT SIGNALS -------
;For single/dual back to back 8 bit transfers
PIN 16 U13_LE                    ;U13 latch Enable (From CPU,LOW byte to ISA)
PIN 17 U14_LE                    ;U14 latch Enable (To CPU LOW byte from ISA)
PIN 18 U22_LE                    ;U22 latch Enable (From CPU, HIGH byte to ISA)
PIN 19 U23_LE                    ;U23 latch Enable (To CPU, HIGH byte from ISA)
PIN 20 U13_OE                    ;U13 outputEnable
PIN 21 U14_OE                    ;U14 outputEnable
PIN 22 U22_OE                    ;U22 outputEnable
PIN 23 U23_OE                    ;U23 outputEnable

;----------------------------------- Boolean Equation Segment -----
EQUATIONS
U14_LE = DUAL * /RD16 * /GAL_A0  ;First of 2 bytes READ
/U14_OE = DUAL * /RD16

U23_LE = DUAL * /RD16 * GAL_A0   ;Second byte READ
/U23_OE = DUAL * /RD16

U13_LE = DUAL * /WR16 * /GAL_A0  ;First of 2 bytes WRITE to 74LS374
/U13_OE = DUAL * /WR16 * /GAL_A0

U22_LE = DUAL * /WR16 * GAL_A0   ;Second byte
/U22_OE = DUAL * /WR16 * GAL_A0