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Assume Want To Shift Left By K , $0 \leq K \leq N-1$ ($N = 2n$) K Espressible As N -bit Number: $-K = K_{n-1}2^{n-1} + k_{n-2}2^{n-2} + \dots + k_12^1 + k_0$, k_i A 0 Or 1 Barrel Shifter: Construct From N Levels Of $N/2$ -in Multiplexors - When Level i Either Shifts Last Level By 2^{i-1} Or Pass Unchanged Circuits-C Sli Feb 19th, 2024

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3 V_{dd} G_{nd} A_{vdd} 2 0 B 0 A 1 B 1 A 2 B 2 D. Z. Pan 10. Interconnects In CMOS Technology 23 Repeaters • R And C Are Proportional To L • RC Delay Is Proportional To L^2 - Unacceptably Great For Long Wires • Break Long Wires Into N Shorter

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