

Use Flip-Flops to Serialize a Bit-Sliced Design

How do we handle **N** bits?

Previously, we used ${\bf N}$ copies of the bit slice.

But now we know how to store bits.

So we could instead

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- use **one copy of the bit slice**, and
- pass the bit slice's M outputs back as inputs in the next clock cycle.

Such an implementation is a **serial design** because it handles one bit at a time.

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