

Memory Mapped IO

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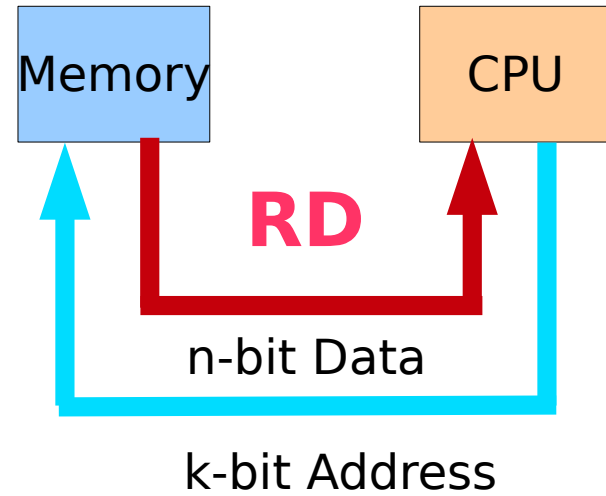
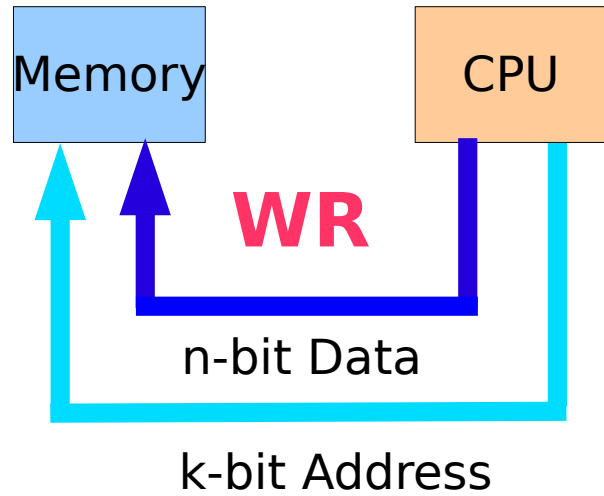
Based on

Chuck Benz ASIC and FPGA Design

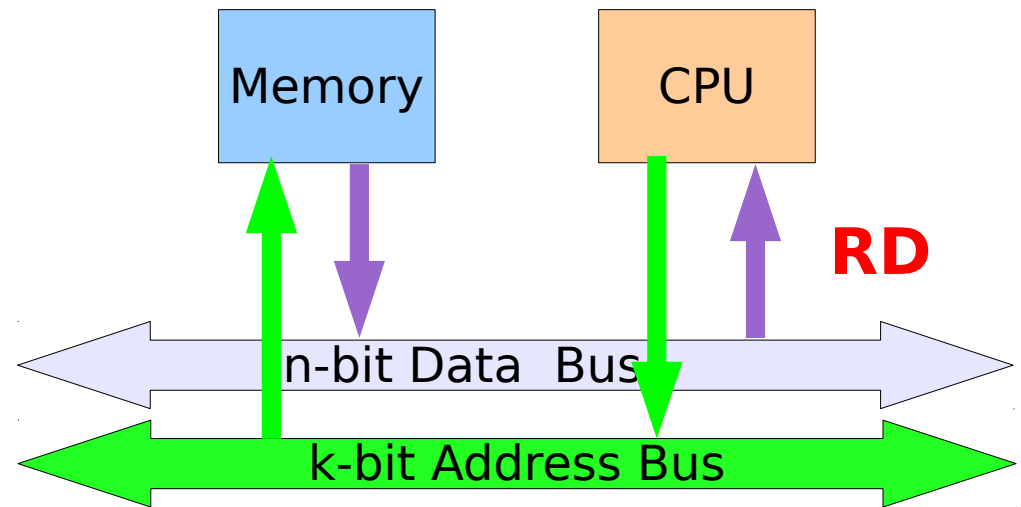
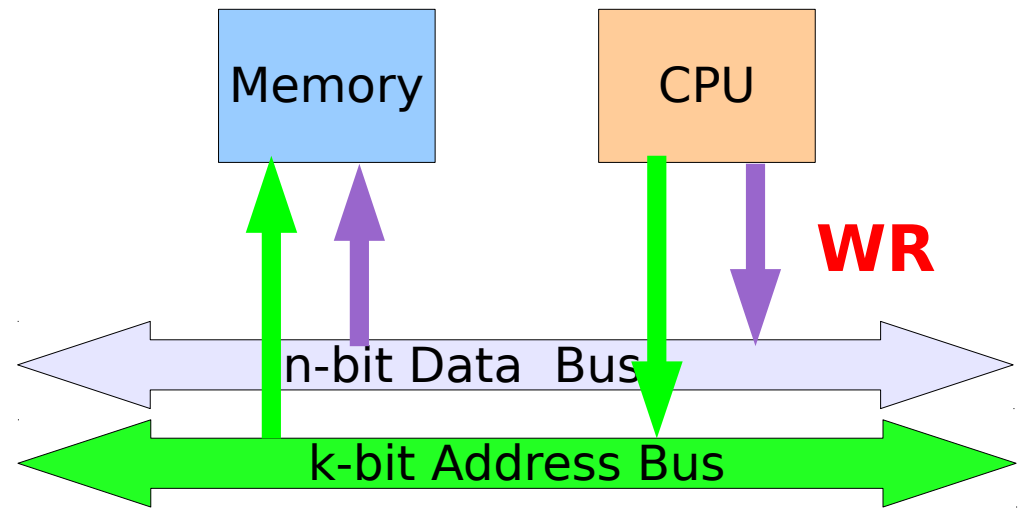
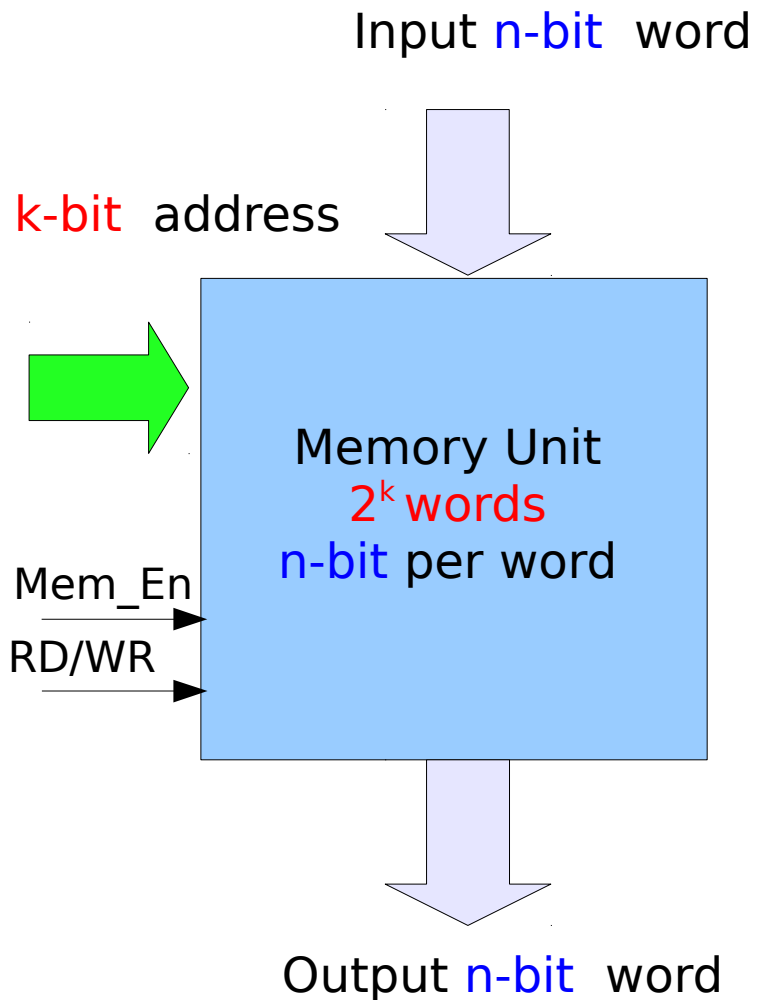
csrGen - generate verilog RTL code
for processor memory maps in ASIC/FPGA designs

<http://asics.chuckbenz.com/>

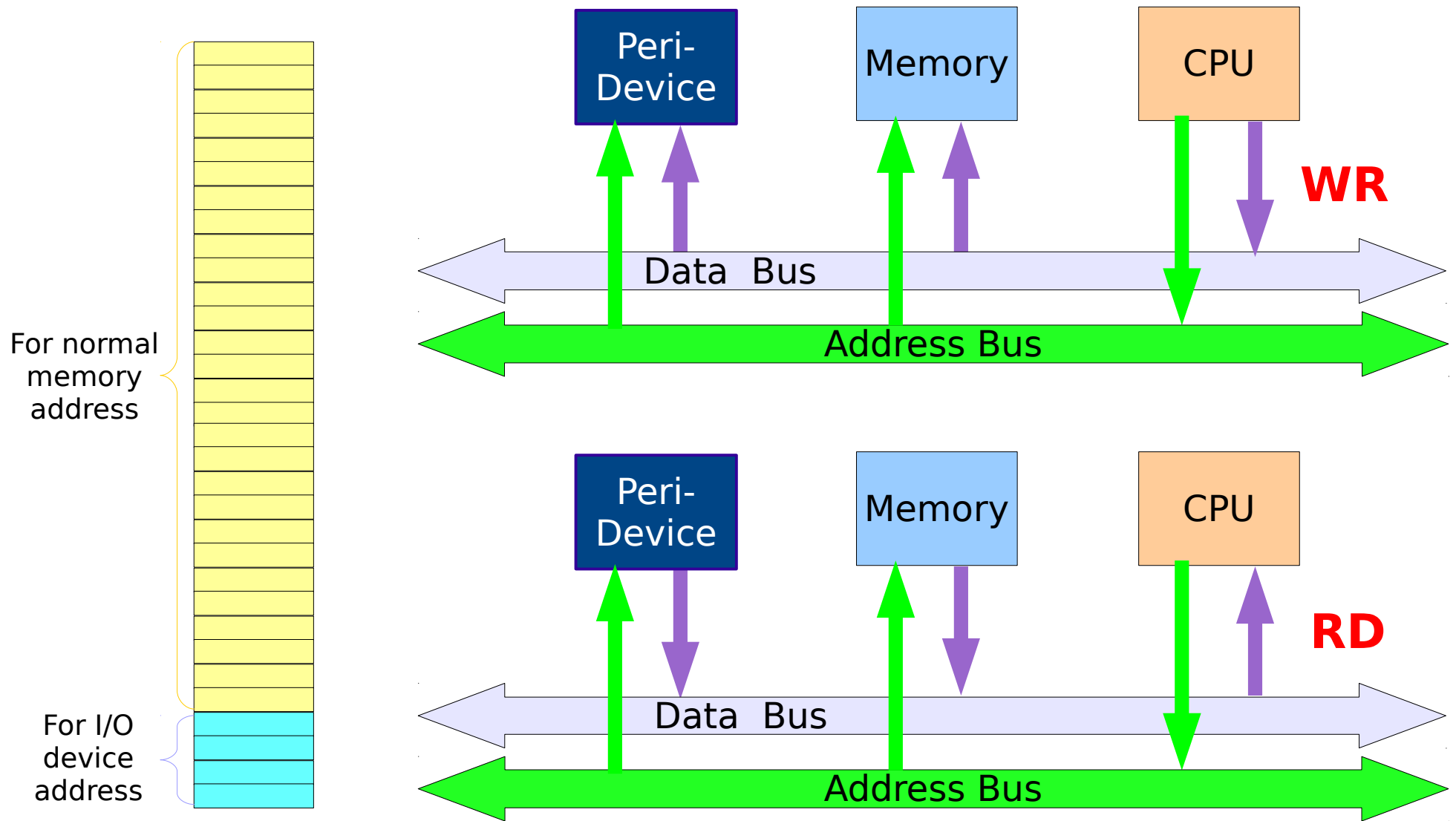
Memory Access Operations



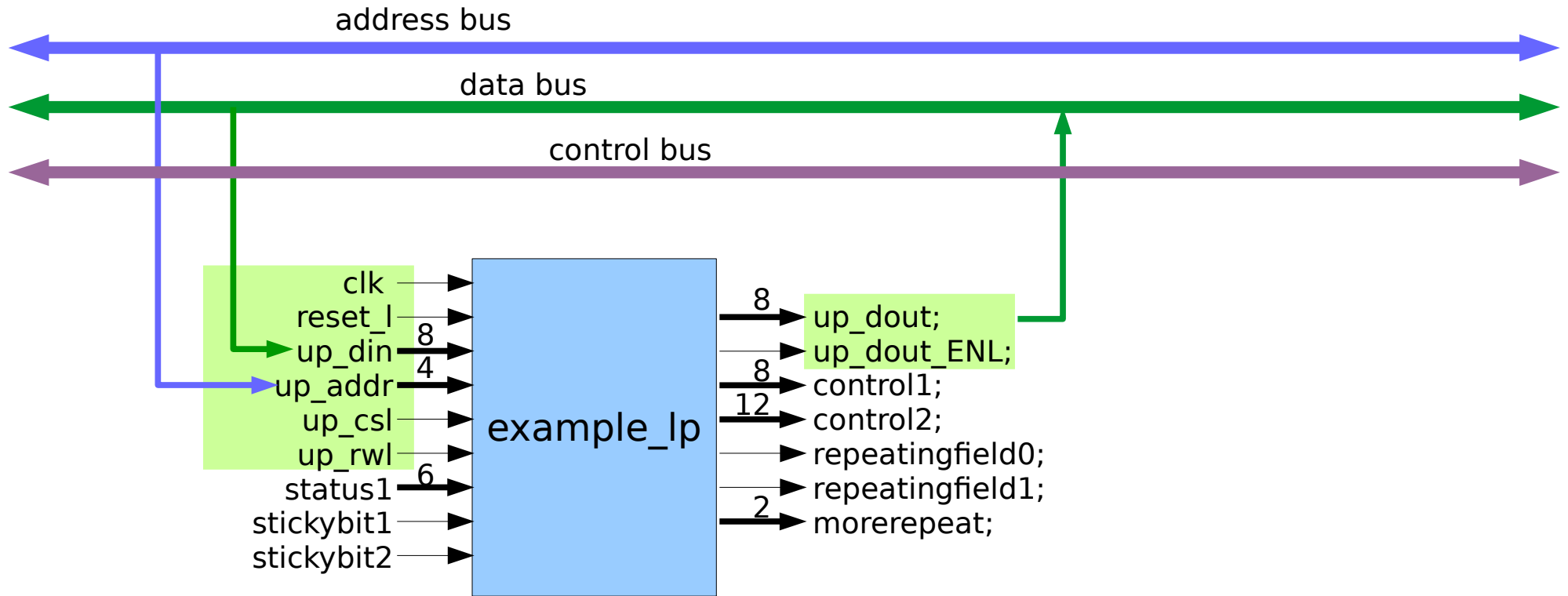
Memory RD & WR Operations



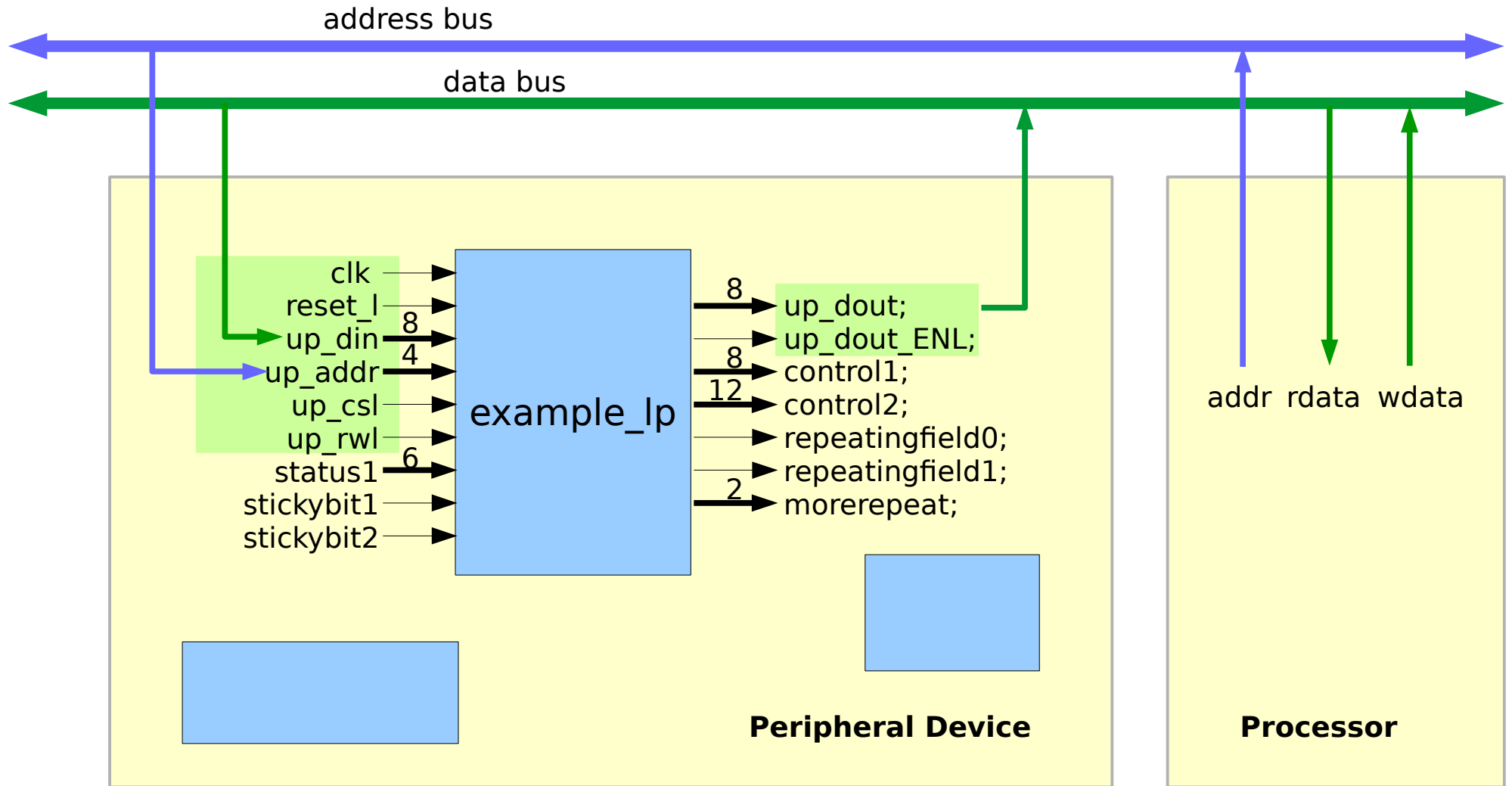
Memory-mapped IO Operations



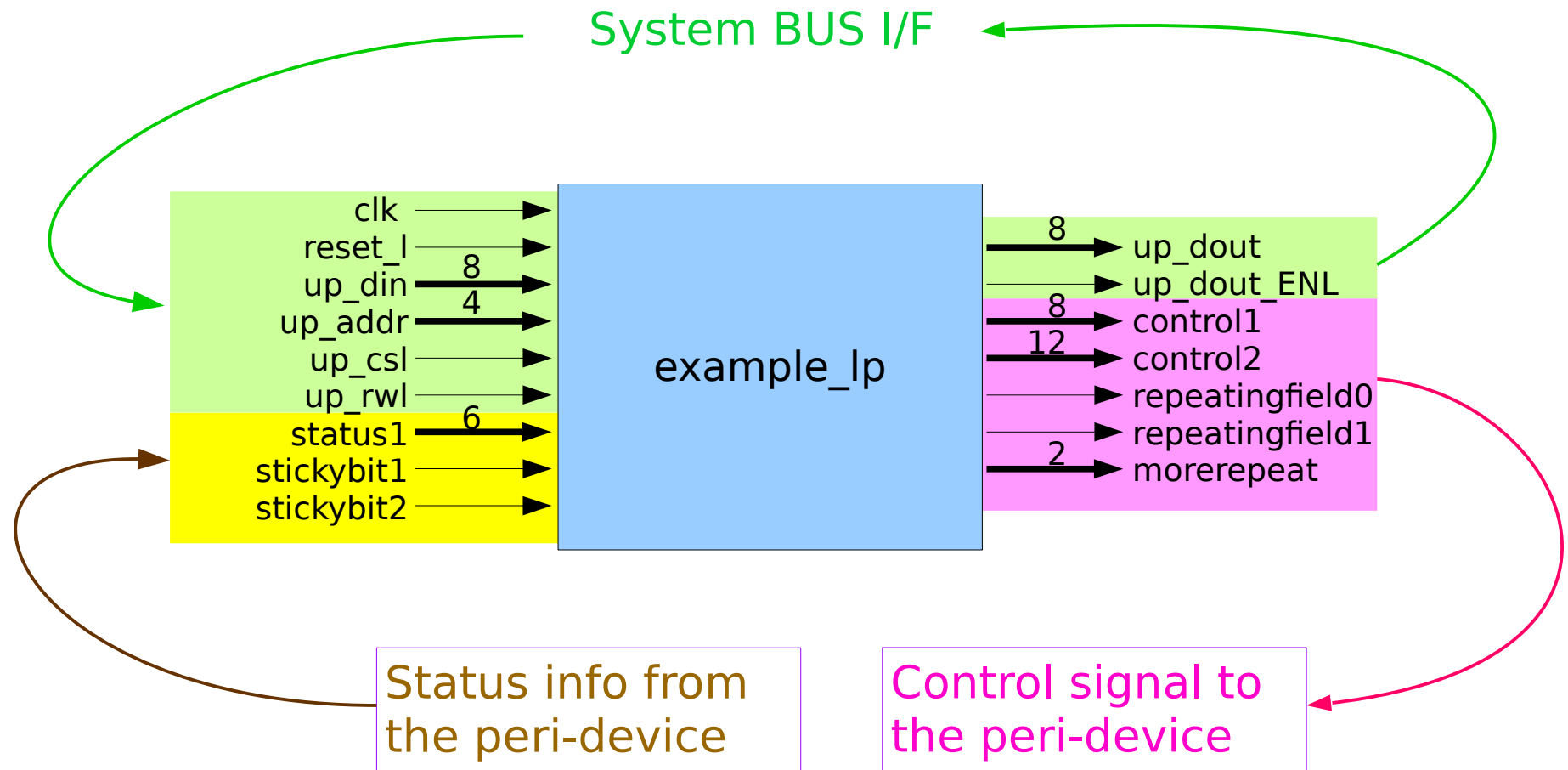
System Bus Interface



Module Interface



Module Interface



References

- [1] <http://en.wikipedia.org/>
- [2] https://en.wikiversity.org/wiki/The_necessities_in_SOC_Design
- [3] https://en.wikiversity.org/wiki/The_necessities_in_Digital_Design
- [4] https://en.wikiversity.org/wiki/The_necessities_in_Computer_Design
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- [8] Digital Systems, Hill, Peterson, 1987