IL2234 - Digital Design with HDL

Lecture 1 - Introduction

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There Is No Largest Prime Number

The proof uses *reductio ad absurdum*.

Theorem

There is no largest prime number.

Proof.

1. Suppose p were the largest prime number.

4. But $q + 1$ is greater than 1, thus divisible by some prime number not in the first p numbers.

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3. Then $q + 1$ is not divisible by any of them.
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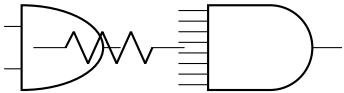

CMOS equivalent circuit