
Appendix F Computer Architecture

To fully understand the design of the I/O ports described in Sections 3.2 and 3.3 and the software presented in Section 3.5, it's necessary to have some knowledge of microcomputer architecture. This appendix defines components and outlines operations.

F.1 Components

Figure F.1 is a block diagram of a typical microcomputer. The following sections describe the six basic components.

CPU

The **C**entral **P**rocessing **U**nit or microprocessor is an integrated circuit which executes programs and in doing so controls external memory and I/O circuits. In addition to +5, ground and possibly other power supply voltages, the processor has some number of data and address pins and a variety of controls.



Figure F.1. Block diagram of a typical microcomputer.

Computer Architecture Appendix C Solutions

Huangqi Zhang



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Step 2: $\text{O} + \text{O}_2 \rightarrow \text{O}_3$ (slow)
a) Write the overall balanced chemical equation.
b) Identify any intermediates within the mechanism.
c) What is the order with respect

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b) $\text{O} + \text{O}_2 \rightarrow \text{O}_3$ (slow)
c) Write the rate law for the overall reaction.
d) Write the overall balanced chemical equation.

consider the following mechanism
Step 1: $2\text{O}_3 \rightarrow 2\text{O}_2 + \text{O}$ (fast)
Step 2: $\text{O} + \text{O}_2 \rightarrow \text{O}_3$ (slow)
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c)

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Mg(s) + 2HCl(aq) → MgCl₂(aq) + H₂(g)
The reaction between Mg(s) and HCl(aq) is represented by the equation above. In a kinetics experiment, a 0.080 g sample of Mg(s) ribbon is added to an Erlenmeyer flask containing 50 mL of 3.0 M HCl(aq) at 25 °C.

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