

Manufacturing RV64I CPUs, boot  
ROMS/firmware (mask ROM/diode matrix),  
punch cards, memory mapped IO for LEDs,  
volatile RAM (SRAM and DRAM) and  
micro-architecture including cache, prefetching,  
instruction pipelines, branch prediction,  
out-of-order execution and speculative execution

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March 23, 2024

# Contents

|     |                                   |   |
|-----|-----------------------------------|---|
| I   | Introduction                      | 2 |
| II  | Manufacturing CPUs                | 3 |
| III | RAM and storage                   | 4 |
| IV  | Motherboards                      | 5 |
| V   | Keyboards, printers and terminals | 6 |

## Part I

# Introduction

## Part II

# Manufacturing CPUs

## Part III

# RAM and storage

## Part IV

# Motherboards

## Part V

# Keyboards, printers and terminals