

Documentation Consolidation Plan

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Overview

The Aves documentation will be consolidated into two comprehensive manuals:

1. Hardware Manual - Covering all Aves models design
2. Software Manual - Covering the Kingfisher programming language and tools

Hardware Manual Structure

Title: Aves Hardware Reference Manual

Location: ~/projects/aves/doc/hardware-manual.adoc

Part 1: System Architecture

- Introduction and Historical Context
- System Overview
- Hardware Design Philosophy

Part 2: Hardware Components

- ASB Protocol
 - Physical Layer
 - Data Link Layer
 - Frame Format
 - Bus Protocol
 - Transport Protocol
 - Performance Analysis

Part 3: Video Systems

- CRTC Design and Implementation

- VIC Design and Implementation
- Timing Specifications

Part 4: Programmable Logic

- WinCUPL PLD Implementations
 - I/O Controller (aves-io-1.pld)
 - Memory Controller 1 (aves-mem-1.pld)
 - Memory Controller 2 (aves-mem-2.pld)
 - Video Controller 1 (aves-video-1.pld)
 - Video Controller 2 (aves-video-2.pld)

Software Manual Structure

Title: Kingfisher Programming Language Reference

Location: ~/projects/kingfisher/doc/software-manual.adoc

Part 1: Getting Started

- Foreword
- Abstract
- The Kingfisher System
- System Architecture
- Conventions and Standards
- Development Environment
- Stack-Based Programming Fundamentals

Part 2: Language Fundamentals

- Program Organization
- Type System
- Control Flow
- Error Handling
- Collections and Data Structures

Part 3: System Architecture

- Assembly Language
- System Data Structures
- Interrupt Handling
- Memory Management

Part 4: Runtime Features

- I/O Subsystem
- System Primitives
- Dictionary Operations
- Heap Management

Part 5: Development

- Software Development Lifecycle
- IDE and Tools
- Example Applications
- Best Practices

Part 6: Reference

- System References
- Error Messages
- Technical Background
- Fundamental Structures

Implementation Plan

1. Document Organization
 - Create new root documents for each manual
 - Establish consistent style using provided guidelines
 - Implement shared includes for common elements
2. Content Migration
 - Move existing content to appropriate sections
 - Maintain British English conventions
 - Preserve existing code examples
 - Update cross-references
3. Documentation Standards
 - Follow section hierarchy guidelines
 - Implement consistent table formats
 - Maintain narrative style
 - Use proper heading levels
4. Quality Assurance
 - Verify all cross-references
 - Ensure consistent formatting
 - Validate code examples

- Check spelling and grammar

5. Build and Delivery

- Set up build pipeline for both manuals
- Generate PDF and HTML outputs
- Implement version control
- Create release process