Jefferson Technical Design Chapter 14: Resources

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Jefferson is based on plug-in simulation objects, which are implemented as resource file "packages." As much of the game as possible is data-driven, to provide for this extensibility.

There is also an integration of technologies which bring their own resources, formats, exporters, and management schemes (3D meshes, character animations, etc.)

A considerable amount of the information called for in the outline of this chapter can be found in the *Objects* and *People* chapters.

In this section, we'll also provide a class-hierarchy diagram of the run-time resource file classes for the core game software.

1. Resource Files

- 1.1 Generalities
- 1.1.1 IFF
- 1.1.2 Macintosh
- 1.1.3 Windows (any?)
- 1.1.4 Serialized C++ Objects
- 1.1.5 Compression
- 1.2 Resource Types
- 1.2.1 Sprites

Z buffer, flip, compression, palettes

Groups

- 1.2.2 Palettes
- **1.2.3 Meshes**
- 1.2.4 Animation
- **1.2.5** Trees
- 1.2.6 Sound Effects
- 1.2.7 Music
- 1.2.8 Framework UI
- 1.2.9 (Localized, wide) UI Strings
- 1.2.9.1 Menu choices (!)
- 1.2.9.2 Control panel labels/tips
- 1.2.9.3 Messages
- 1.2.9.4 In-game text
- 1.2.10 Development-time Strings
- 1.2.11 ...
- 1.3 Global (Stock) Resources
- 1.4 Object Resources
- 1.4.1 Format
- 1.4.2 Version
- 1.4.3 Resource Chunks
- 1.5 Saved Houses and Neighborhoods
- **1.5.1** Format
- 1.5.2 Version
- 1.5.3 Add-Ins
- 1.5.4 Instance Data and State
- 1.5.4.1 World
- 1.5.4.2 Object Properties
- 1.5.4.3 Simulation State and Stack

- 1.5.4.4 Animation State
- 1.5.4.5 Custom Characters and Families
- 1.5.4.6 Thumbnail Views
- 1.5.4.7 House Summaries (for use as Neighbors)
- 2. Resource Management
- 2.1 CD Map
- 2.1.1 Naming Conventions
- 2.1.2 Localization
- 2.2 File Formats
- 2.3 Installation
- 2.3.1 Game
- 2.3.2 Add-Ins
- 2.3.3 Uninstallation
- 2.4 Registration and Inventory (Add-Ins)
- 2.5 Run-Time
- 2.5.1 Naming Scope/Search

Object, Local, Global ... (my bad guess)

- 2.5.2 ResFile
- 2.5.3 Managers/Factories
- 2.5.4 Resolve
- 2.5.5 Standard C++ File IO
- **2.5.6** OS Files
- 2.5.7 Caching and Paging
- 2.5.8 On-the-Fly Editing
- 2.5.8.1 File Locking/Unlocking
- 2.5.8.2 Change Notification
- 2.5.8.3 "Re-Initialization"

2.6 Localization

Pops up in several places (CD, Run-time, Install, ...). Centralized discussion? Procedural aspects (time, money, culture...?)