Reading Writing ".DS_Store" Files

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A ".DS_Store" file is a metadata file on Mac OS X that holds information about folder and icons as viewed and manipulated in Finder. One common reason to manipulate ".DS_Store" files is to create a nice-looking disk image for a Mac OS X installer.

".DS_Store" reading and writing is based on a reverse-engineered description of the file format [DS_Store].

1 ".DS_Store" **Files and Entries**

(require ds-store)　　　　package: ds-store-lib

```
(read-ds-store path [#:verbose verbose?]) → (listof ds?)
  path : path-string?
  verbose? : any/c = #f
```

Reads the ".DS_Store" file at *path* returning a list of store items.

```
(write-ds-store path dses) → void?
  path : path-string?
  dses : (listof ds?)
```

Writes *dses* to the ".DS_Store" file at *path*, replacing the file's current content.

```
(struct ds (path id type data)
    #:transparent)
  path : (or/c path-element? 'same)
  id : symbol?
  type : (or/c 'long 'shor 'bool 'type 'ustr 'blob)
  data : (or/c exact-integer? boolean? symbol? string?
              bytes? iloc? fwind?)
```

Represents a entry in a ".DS_Store" file. A ".DS_Store" file typically has multiple entries for a single file or directory in the same directory as the ".DS_Store".

The path should be 'same only for a volume root directory; information about a directory is otherwise recorded in its parent directory's ".DS_Store" file.

The id symbols should each have four ASCII characters. See the ".DS_Store" format description [DS_Store] for more information id and type values.

The data field long should be an exact integer for 'long and 'shor types, a boolean for the 'bool type, a 4-character ASCII symbol for the 'type type, a string for the 'ustr type, and either a byte string, iloc, or fwind for the 'blob type.

```
(struct iloc (x y)
    #:transparent)
  x : exact-integer?
  y : exact-integer?
```

Represents an icon location for an 'Iloc entry.

```
(struct fwind (t l b r mode sideview?)
```

```
  #:transparent)
t : exact-integer?
l : exact-integer?
b : exact-integer?
r : exact-integer?
mode : symbol?
sideview? : any/c
```

Represent a window location for a `'fwi0` entry. The `mode` field should have four ASCII characters, and recognized `mode`s include `'icnv`, `'clmv`, and `'Nlsv`.

2 Finder Aliases

A `'pict` entry in a `".DS_Store"` file references a file through a Finder alias.

```
(require ds-store/alias)      package: ds-store-lib
```

```
(path->alias-bytes path [#:wrt wrt-dir]) → (or/c bytes? #f)
  path : path-string?
  wrt-dir : (or/c #f path-string?) = #f
```

Constructs a byte string to represent a Finder alias but using the `"CoreFoundation"` library on Mac OS X.

Bibliography

[DS_Store] Wim   Lewis   and   Mark   Mentovai,   "DS_Store   For-
            mat."   `http://search.cpan.org/~wiml/Mac-Finder-`
            `DSStore/DSStoreFormat.pod`