

Knight File System

The Knight File System, or KFS, is made up of two parts, the FAT, and the data, similar to most file systems. The data is a long series of files, with the data all in a long sequence.

The FAT is made up of a series of entries. The entry details vary depending on the type of entry. A directory consists only of the name. The possible entries are File, Directory, Directory Delimiter, and Table Delimiter. Here is the makeup of each:

File Entry:

Defines a file

- ID (01)
- Name (0 delimited string)
- Flash Page (byte)
- Pointer (word)
- Length (word)

Directory Entry:

Defines a directory

- ID (02)
- Name (0 delimited string)

Directory Delimiter:

Defines the end of a directory

- ID (03)

Table Delimiter:

- ID (FF)

The table delimiter is FF so that it may be overwritten easily if the table needs to be extended. An example table looks like this:

02 ; Directory ID

“OS”, 0 ; Name

01 ; File ID

“boot.kxe”, 0 ; name

Preliminary Documentation – Subject to Change

01 ; Page

0000 ; Offset on page

0200 ; Length on page

FF ; Table delimiter