PyFFF

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CHAPTER 1

The PyFFF API Reference

class fff.**AbstractFile**

This is the generic File interface.

allocated_size

The allocated size of this file on disk. Abstract property.

Type int

data

The data of this file in bytes. Abstract property.

Type bytes

fullpath

The full path of this file. E.g. "/usr/local/bin/python". Abstract property.

Note: For root directory, it returns "/".

Type str

mime

The mime type of this file. E.g. "application/x-gzip". Abstract property.

Type str

name

The name of this file. Abstract property.

Type str

parent

The parent directory of this file. Abstract property.

Type *AbstractFile*

read(*count: int*, *skip: int*, *bsize: int*) → Iterable[bytes]
Read file data at given location. Abstract method.

Parameters

- **count** (*int*) – The number of data unit to read.
- **skip** (*int*) – The number of data unit to skip before read.
- **bsize** (*int*) – The size of data unit. (Block size)

Returns The result is a generate of bytes.

Return type Iterable[bytes]

Examples

Read the 2nd cluster of the file.

```
>>> f.read(count=1, skip=1, bsize=fs.cluster_size)
b'This is the data contained in the second cluster of this file... [truncated]
↪'
```

size
The actual size of this file on disk. Abstract property.

Type int

fff.util.**hd**(**args*, ***kwargs*)
This is an alias to the *hexdump* function.

fff.util.**md5sum**(*data: Union[bytes, Iterable[bytes], fff.abstract_file.AbstractFile]*) → str
Returns the MD5 checksum of bytes, an iterable of bytes, or a file.

Parameters **data** (*bytes, Iterable[bytes], or AbstractFile*) – The data/file to calculate MD5 checksum on.

Returns The MD5 checksum string.

Return type str

fff.util.**hexdump**(*data*, *result='print'*)
Transform binary data to the hex dump text format:

00000000: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....

[x] data argument as a binary string [x] data argument as a file like object

Returns result depending on the *result* argument: 'print' - prints line by line 'return' - returns single string 'generator' - returns generator that produces lines

This is the document of PyFFF: Python For Filesystem Forensics.

CHAPTER 2

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