

src/abif2

April 26, 2025

Contents

1 Types

```
ABIFTrace = ref object
  stream*: FileStream
  fileName*: string
  version*: int
  numElems*: int
  tags*: TableRef[string, DirectoryEntry]
  data*: TableRef[string, string]
```

```
DirectoryEntry = object
  tagName*: string
  tagNum*: int
  elemType*: ElementType
  elemSize*: int
  elemNum*: int
  dataSize*: int
  dataOffset*: int
  dataHandle*: int
```

```
ElementType = enum
  etByte = 1, etChar = 2, etWord = 3, etShort = 4, etLong = 5, etRational = 6,
  etFloat = 7, etDouble = 8, etDate = 10, etTime = 11, etThumb = 12,
  etBool = 13, etPoint = 14, etRect = 15, etVPoint = 16, etVRect = 17,
  etPString = 18, etCString = 19, etTag = 20
```

2 Procs

```
proc abifVersion(): string {.raises: [], tags: [], forbids: []}.
```

```
proc close(trace: ABIFTrace) {.raises: [IOError, OSError],
  tags: [WriteIOEffect], forbids: []}.
```

```
proc exportFasta(trace: ABIFTrace; outFile: string = "") {.
  raises: [KeyError, IOError, OSError, ValueError],
  tags: [ReadIOEffect, WriteIOEffect], forbids: []}.
```

```
proc exportFastq(trace: ABIFTrace; outFile: string = "") {.
  raises: [KeyError, IOError, OSError, ValueError],
  tags: [ReadIOEffect, WriteIOEffect], forbids: []}.
```

```
proc getData(trace: ABIFTrace; tag: string): string {.
  raises: [IOError, OSError, ValueError, KeyError], tags: [ReadIOEffect],
  forbids: [].
```

```
proc getQualityValues(trace: ABIFTrace): seq[int] {.
  raises: [KeyError, IOError, OSError, ValueError], tags: [ReadIOEffect],
  forbids: [].
```

```
proc getSampleName(trace: ABIFTrace): string {.
  raises: [KeyError, IOError, OSError, ValueError], tags: [ReadIOEffect],
  forbids: [].
```

```
proc getSequence(trace: ABIFTrace): string {.
  raises: [KeyError, IOError, OSError, ValueError], tags: [ReadIOEffect],
  forbids: [].
```

```
proc getTagNames(trace: ABIFTrace): seq[string] {.raises: [], tags: [],
  forbids: [].
```

```
proc newABIFTrace(filename: string; trimming: bool = false): ABIFTrace {.
  raises: [IOError, OSError, KeyError, ValueError], tags: [ReadIOEffect],
  forbids: [].
```