

Package ‘sas7bdat’

August 29, 2024

Type Package

Title sas7bdat Reverse Engineering Documentation

Version 0.8

Date 2024-08-28

Maintainer Matt Shotwell <matt.shotwell@vanderbilt.edu>

Description

Documentation and prototypes for the earliest (circa 2010) open-source effort to reverse engineer the sas7bdat file format. The package includes a prototype reader for sas7bdat files. However, newer packages may contain more robust readers for sas7bdat files.

Depends R (>= 2.10)

License GPL (>= 2)

LazyLoad yes

NeedsCompilation no

Author Matt Shotwell [aut, cre],
Clint Cummins [ctb]

Repository CRAN

Date/Publication 2024-08-29 02:20:02 UTC

Contents

read.sas7bdat	2
sas7bdat.sources	3

Index	4
--------------	----------

read.sas7bdat

SAS Database Reader (experimental)

Description

Read SAS files in the sas7bdat data format.

Usage

```
read.sas7bdat(file, encoding="", debug=FALSE)
```

Arguments

file	character: Path to a file or an URL.
encoding	character: Character encoding for strings
debug	logical: Save function environment as attribute of returned object.

Value

A data frame corresponding to the SAS database. The returned data frame has an `column.info` attribute and other attributes that contain additional information about each field in the data frame, respectively. The `column.info` attribute is a list of lists, containing each of the following:

name	The field name
offset	The field offset in packed binary row data (bytes)
length	The field length (bytes)
type	The field type, either 'character' or 'numeric'

When the database specifies a field format and/or label, the following may also be present:

format	The field display format
label	The field label (usually a longer description)

Warning

The functionality in this package is EXPERIMENTAL. Use at your own risk. For the latest details, see the 'sas7bdat' vignette (*i.e.*, `vignette('sas7bdat')`).

Author(s)

Matt Shotwell

References

<http://biostatmatt.com/archives/tag/sas7bdat>

Examples

```
## see \code{data(sas7bdat.sources)}
```

Description

These data are a collection of internet resources for SAS database files in the sas7bdat format.

Usage

```
data(sas7bdat.sources)
```

Format

A data frame with records on the following fields:

filename character, the SAS database filename

accessed POSIXct, the date last retrieved

uncompressed numeric, file size (bytes)

gzip numeric, gzip compressed file size (bytes)

bzip2 numeric, bzip2 compressed file size (bytes)

xz numeric, xz compressed file size (bytes)

url character, the Universal Resource Locator

PKGversion character, the **sas7bdat** package version

message character, message returned by read.sas7bdat (if any)

SASrelease character, SAS release

SAShost character, SAS host platform

OSversion character, OS version

OSmaker character, OS maker

OSname character, OS name

endianness character, endianness of header fields

winunix character, platform type

Examples

```
data(sas7bdat.sources)
```

Index

* **datasets**

 sas7bdat . sources, [3](#)

read . sas7bdat, [2](#)

sas7bdat . sources, [3](#)