

Package ‘provTraceR’

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Title Uses Provenance to Trace File Lineage for One or more R Scripts

Version 1.0

Date 2020-08-04

Description Uses provenance collected by 'rdtLite' package or comparable tool to display information about input files, output files, and exchanged files for a single R script or a series of R scripts.

Depends R (>= 3.5)

License GPL-3

Encoding UTF-8

LazyData true

Imports provParseR (>= 0.3)

Suggests digest, knitr, rdt, rdtLite, rmarkdown, testthat

Additional_repositories <https://end-to-end-provenance.github.io/drat/>

URL <https://github.com/End-to-end-provenance>

BugReports <https://github.com/End-to-end-provenance/provTraceR/issues>

RoxygenNote 7.1.0

VignetteBuilder knitr

NeedsCompilation no

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R topics documented:

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prov.trace *File lineage functions*

Description

prov.trace traces file lineage from existing provenance.

prov.trace.run runs the specified script(s), collects provenance, and uses the provenance to trace file lineage.

Usage

```
prov.trace(  
  scripts,  
  prov.dir = NULL,  
  file.details = FALSE,  
  console = TRUE,  
  save = FALSE,  
  save.dir = NULL,  
  check = TRUE  
)
```

```
prov.trace.run(  
  scripts,  
  prov.dir = NULL,  
  file.details = FALSE,  
  console = TRUE,  
  save = FALSE,  
  save.dir = NULL,  
  check = TRUE,  
  prov.tool = "rdtLite",  
  details = FALSE,  
  ...  
)
```

Arguments

| | |
|--------------|---|
| scripts | a script name, a vector of script names, or a text file of script names (file extension = .txt) |
| prov.dir | provenance directory |
| file.details | whether to display file details |
| console | whether to display results in the console |
| save | whether to save results to the file prov-trace.txt |
| save.dir | where to save the results file. If NULL, use the R session temporary directory. If a period (.), use the current working directory. Otherwise use save.dir. |
| check | whether to check against the user's file system |

| | |
|------------------------|---|
| <code>prov.tool</code> | provenance collection tool (rdtLite or rdt) |
| <code>details</code> | whether to collect fine-grained provenance |
| <code>...</code> | other parameters passed to the provenance collector |

Value

string containing file lineage
string containing file lineage

Examples

```
prov.dir <- system.file("testdata", package="provTraceR")  
prov.trace(c("script-1.R", "script-2.R"), prov.dir=prov.dir)
```

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