# Package 'fastlogranktest'

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Type Package
<b>Title</b> A Fast Way to Calculate the p-Value of One or Multiple Log-Rank-Tests
Version 0.2
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<b>Description</b> A very fast Log-Rank-Test implementation that is several orders of magnitude faster than the implementation in the 'survival' package.  Log-Rank-Tests can be computed individually or concurrently using threading.
License GPL-3
<pre>URL https://github.com/compsysmed/fastlogranktest.git</pre>
Encoding UTF-8
LazyData true
RoxygenNote 7.0.2
LinkingTo Rcpp, BH
Imports Rcpp
Suggests testthat (>= 2.1.0), survival (>= 3.1)
NeedsCompilation yes
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logrank\_test

Calculate the Log-Rank-Test very fast

#### **Description**

Calculate the Log-Rank-Test very fast

#### Usage

```
logrank_test(groupa, groupb, groupacensored, groupbcensored)
```

#### **Arguments**

```
groupa vector of group a's survival times
groupb vector of group b's survival times
groupacensored vector of censored information of group a's survival times
groupbcensored vector of censored information of group b's survival times
```

#### Value

p-value

## **Examples**

multi\_logrank\_test

Calculate multiple Log-Rank-Tests very fast

#### **Description**

Calculate multiple Log-Rank-Tests very fast

## Usage

```
multi_logrank_test(
   groupas,
   groupbs,
   groupacensoreds,
   groupbcensoreds,
   threadnumber = NULL
)
```

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#### **Arguments**

groupas list of vectors of groupa's survival times
groupbs list of vectors of groupb's survival times
groupacensoreds
list of vectors of censored information of groupa's survival times
groupbcensoreds
list of vectors of censored information of groupb's survival times

threadnumber (optional) set the number of threads used for this function

#### Value

vector of p-values (same order as input)

## **Examples**

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