Package 'triads'

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Type Package

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Title Triad census for networks

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Depends igraph

Description This program calculates the triad census positions of each node in a graph object.

License GPL-2

LazyLoad yes

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R topics documented:

itpeval *Function to iterate through kinds of triads*

Description

Finds the classification for triads Used as part of `triads`.

Usage

```
itpeval(tijk)
```

Arguments

`tijk`	Matrix of graph ties

Value

type of triad

Author(s)

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triadcensus *Node-level triad census for networks*

Description

`triadcensus` calculates the triad census positions of *each node* in a graph object. Currently, it works via an igraph object, utilizing the igraph function get.adjlist() to return the data in the format necessary to input into Moody's functions.

Usage

```
triadcensus(g)
```

Arguments

`g`	igraph graph object

Value

`triads`	a matrix of triad membership

Note

These functions replicate SAS module itpcen.mod, programmed by James Moody (last updated 2004). The program was written for Moody's dissertation: The Structure of Adolescent Social Relations: Modeling Friendship in Dynamic Social Settings. University of North Carolina at Chapel Hill, Department of Sociology. Peter S. Bearman, Chair. This is based on routines originally developed by Ron Burt and implemented in his "STRUCTURE" program. A link to the manual is available at http://faculty.chicagobooth.edu/ronald.burt/teaching/STRUCmanual.pdf.

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Examples

```
##

  n <- 20
  g <- barabasi.game(n, power = 1, m = NULL)
  triadcensus <- triadcensus(g)
```

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