README

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multicmp

multicmp is a toolkit for flexible modeling of multivariate count data, especially in the presence of data dispersion. Currently the package only supports bivariate data. Future development will extend the package to higher-dimensional data.

[The two uses are for hypothesis testing of under/over-dispersion and parameter estimation?]

To use multicmp, one will first need to install the following two packages:

```
install.packages("numDeriv")
install.packages("stats")
```

One can install the latest released version of multicmp from CRAN with:

```
install.packages("multicmp")
```

Using multicmp

To get started with multicmp right away, read the notes below. For a more detailed and technical description of the bivariate COMPoisson distribution, see Sellers et al. (2016).

The multicmp package houses the *accidents* data set (Famoye and Consul, 1995)

[How exactly will we show the functions in action? The computations take a while on my machine. Is it worthwhile even to have an example here?]