NAME

proj - Projection calculations for tcl

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SYNOPSIS

package require proj

proj create *projstring*
proj cr2crs *projstring projstring*
proj norm *handle*
proj destroy *handle*
proj fwd *handle list*
proj inv *handle list*

DESCRIPTION

proj provides minimal Tcl interface to proj projection library (which must already be installed).

Commands

- **proj create** *projstring*

  returns handle

- **proj cr2crs** *projstring projstring*

  returns handle

- **proj norm** *handle*

  returns new handle

- **proj destroy** *handle*

- **proj fwd** *handle list*

  returns tranformed point

- **proj inv** *handle list*

  returns tranformed point

Examples

```
package require proj
set P [proj crs2crs "EPSG:4326" "+proj=utm +zone=32 +datum=WGS84"]
set norm [proj norm $P]
proj destroy $P
set P $norm
set a [list 12.0 55.]
set b [proj fwd $P $a]
puts [format "easting: %.3f, northing: %.3f" {*}$b]
set b [proj inv $P $b]
puts [format "longitude: %g, latitude: %g" {*}$b]
proj destroy $P
# end

produces result
easting: 691875.632, northing: 6098907.825
longitude: 12, latitude: 55
(corresponds to first example in quickstart.html)
```

References

1. PROJ https://proj.org

2. Quick start for C API usage https://proj.org/development/quickstart.html

3. Reference https://proj.org/development/reference/index.html

Bugs, Todo, etc

- commands implemented only sufficient to run example.

CATEGORY

Mathematics

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