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
- $2. \ \ Quick \ start \ for \ projstrings \ https://proj.org/usage/quick start.html$
- 3. Quick start for C API usage https://proj.org/development/quickstart.html
- 4. Reference https://proj.org/development/reference/index.html

Bugs, Todo, etc

• commands implemented only sufficient to run example.

CATEGORY

Mathematics

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