nanonext

R binding for NNG (Nanomsg Next Generation)

Lightweight C library | Successor to ZeroMQ | Designed for performance & reliability | Zero R package dependency

message-passing

Transports:

» inproc (intra-process)

» IPC (inter-process)

» TCP (IPv4 or IPv6)

» WebSocket

Scalability protocols:

» Bus (mesh networks)

» Pair (two-way radio)

» Push/Pull (one-way pipeline)/

» Publisher/Subscriber (topics & broadcast)

» Request/Reply (RPC)

» Surveyor/Respondent

(voting & service discovery)



» Massively-scalable concurrency framework for building distributed applications

» Fully-flexible async send and receive

» 'Aio' objects automatically resolve upon completion of asynchronous operations

nanonext

PROGRAMMING LANGUAGE

=G0

mirai

"receive data generated

analysis in R, and send

program - all on the

networks spanning the

same computer or on

in Python, perform

results to a C++

globe"

未来 / みらい / mirai Japanese for 'future'

web utilities

» ncurl - (async) http(s) client

supports methods incl. POST / PUT, querying REST APIs

» stream - (async) (secure) websocket client +

low-level socket interface to arbitrary sources

» messenger - console-based instant messaging

python'

Minimalist async evaluation framework for R

- » Built on 'nanonext' and 'NNG' technology
- » mirai() returns a 'mirai' object immediately
- » Evaluates an expression asynchronously, resolving automatically upon completion

https://shikokuchuo.net/mirai

https://cran.r-project.org/package=mirai



https://shikokuchuo.net/nanonext

https://cran.r-project.org/package=nanonext