Nanomsg



Few facts

Written by Martin Sustrik (co-creator of ZeroMQ) MIT licensed Release 1.0.0 release candidate(4 June 2016) Release 1.0.0 release candidate #2(7 June 2016) Version 1.0.0 Production Release(11 June 2016)



Advantages

Aims POSIX full-compliance Written in C API for integrating new protocols and transports command-line tools (nanocat)



Really zerocopy

```
void *buf = nn_allocmsg(12,0);
memcpy(buf, "Hello world!", 12);
nn_send(s, &buf, NN_MSG, 0);
nn_recv(s, &buf, NN_MSG, 0);
nn_freemsg(buf);
```



Nanocat

command line tool for testing and debugging purpose provides many symlinks to simplify user interfacesupports msgpack



Nanocat (sample)

```
# server-side
nanocat --rep --bind tcp://127.0.0.1:8000 --format
ascii --data pong
```

client side

nanocat --req --connect tcp://127.0.0.1:8000 -
format ascii --data nina

Nanocat (sample)

!bash nanocat --pub --connect tcp://darthsidious --data "My liege !" --interval 10



Transport



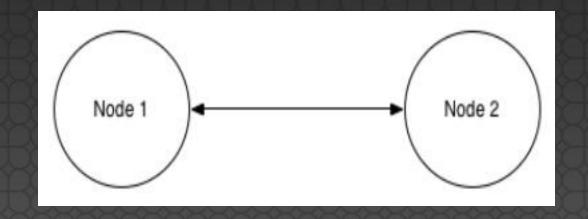
- •INPROC transport within a process (between threads, modules etc.)
- •IPC transport between processes on a single machine
- •TCP network transport via TCP
- ·WS WebSocket protocol



Protocol

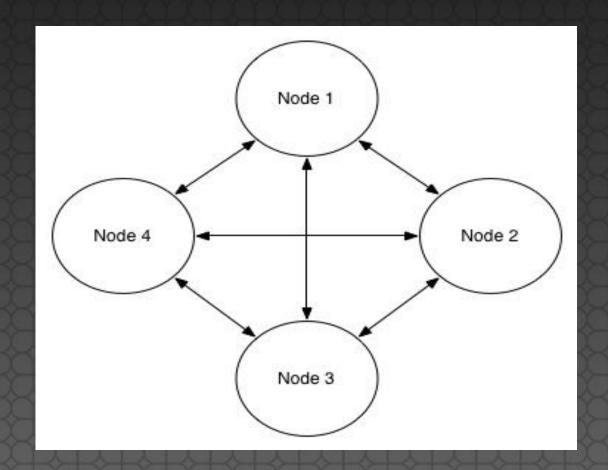


Pair



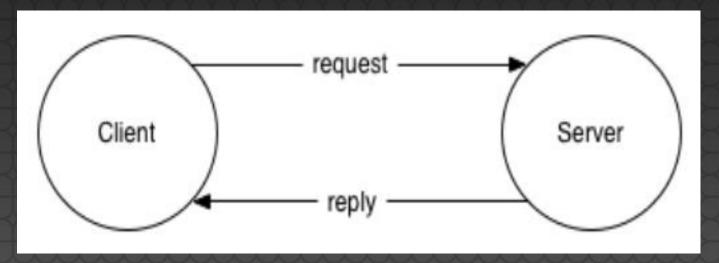


Bus



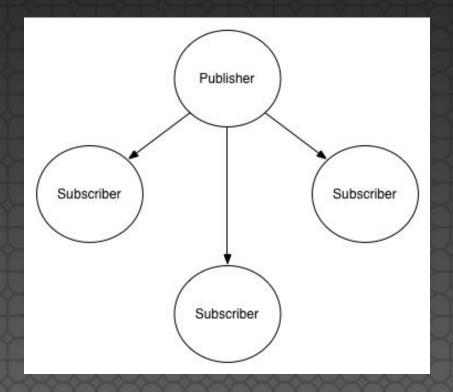


Request/Reply



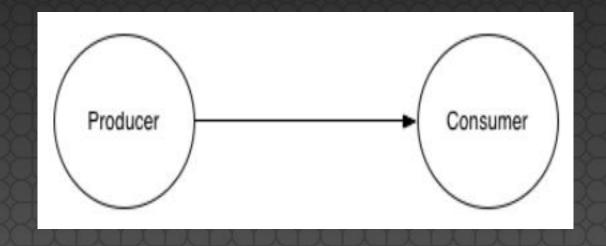


PUB/SUB



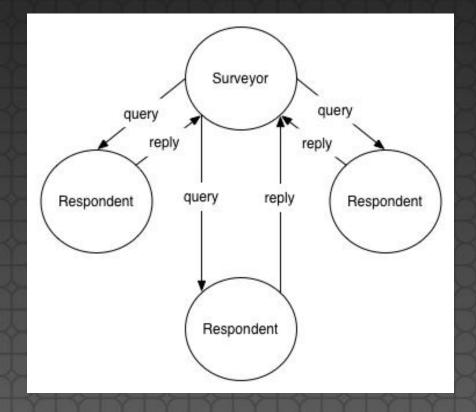


PIPELINE





SURVEY





Why keep using ZeroMQ

1.nanomsg还相对年轻,最近一个月刚出了1.0.0正式版 2.nanomsg没有像ZeroMQ那样有一个繁荣的开发者社区 3.ZeroMQ有丰富的文档及其它资源,可以帮助开发人员使 用它,而nanomsg的文档非常少

尽管如此,我还是认为nanomsg所做的改进,尤其是它的可扩展协议,使它非常有吸引力。

