Towards a Portable Networking Library

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Pharo/Squeak Networking Support

- Image
  - Network Library

- VM
  - Socket plugin

- OS
  - Network API
Hard to port
TCP+ UDP+ …
IPv4 +IPv6
Socket
HTTPHeaderSocket SocksSocket
ByteArray
SocketAdress
Network Kernel
Test Coverage

0%
Let's redo it!

Hard to port

Dirty!

0% tested

Wrap OS Lib.

OOP

100% tested
OCEAN idea

Image

Ocean Library

Alien Library

VM

Wrap OS Lib.

Alien plugin

OS

Network API
OCEAN Library

Latest version

Socket

TcpSocket

UdpSocket

NetworkLibrary

UnixLibrary

WindowsLibrary

MacOsLibrary

LinuxLibrary

OOP

Almost! 100% tested
Hard time writing tests!

Concurrency!!!
OSProcess for tests

Image
- OSProcess Library
- Ocean Library
- Alien Library

VM
- OSProcess plugin
- Alien plugin

OS
- System API?
- Network API
OCEAN early evaluation

Receive 10MB
Send 10MB

ms

Ocean
OldSocket
OCEAN

Portable
OOP
100% tested
OCEAN

To do

☐ Clean up Pharo
☐ Ocean-based
  OO Middleware
☐ Smaller VM

Portable

OOP

100% tested
To do

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