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Web-based meta-data repository of Internet measurement datasets

- Revamped, streamlined collection submission interface
  - Submit new collection in < 30 mins
- Improves the ability to find research data
- Anybody can add datasets—you don’t need to be the owner
- Go and try it!
Monotonic ID-Based Alias Resolution (MIDAR)

Monotonic Bounds Test
- For two addresses to be aliases, their combined IP-ID time series must be monotonic

Scales to millions of pairs
- Sliding-window probe scheduling
- Supports multiple vantage points

Highly accurate - practically no false positives or negatives
- Only 372 (of 3,888,291) false negatives in validation run
MARINDA (available as part of MIDAR)

Distributed shared memory (tuple space) implementation

• Decentralized communication and coordination
• Simplifies network programming in a distributed system
  • Message-oriented group communication
• Persistent connection
• Automatic marshaling of structured data
• Ruby language bindings
• Stand-alone release coming soon...

```ruby
#!/usr/bin/env ruby
require 'rubygems'
require 'marinda'
$tod = Marinda::Client.new("/tmp/localts.sock", 2000,
                           :scope => :global)
$tod.write ["TRACEROUTE", "ark", 2, "lax-us", "www.caida.org",
            [["attempts", 1], ["method", "icmp-paris"]]]
result = $tod.take ["RESULT", "ark", nil, nil, nil, nil, nil]
```
Software suite for large-scale analysis of (darknet) traffic traces

- High-speed traffic trace analysis and aggregation
- Designed for darknet data; works with any packet traces
- Easily extensible, cooperative plugin architecture
- FlowTuple (NetFlow-like) packet header aggregation
- Version 2.0 ships with 9 plugins including:
  - IP Geolocation
  - AS lookups
  - CryptoPAn Anonymization
Interactive web interface to on-demand topology measurements from Ark monitors

- Easy way for researchers to conduct on-demand topology measurements on Ark
- Currently supports ping and traceroute (ICMP, TCP, UDP)
- Command-line support coming soon...
IN OTHER NEWS

• Scamper cvs-20130824 released
  • JSON output format for traceroute, ping, alias resolution techniques
  • IPv6 support for alias resolution (ally, speedtrap, radargun)

• New Macroscopic Internet Topology Data Kit (ITDK) release (July 2013)

• We’re always looking for talented people
  • www.caida.org/home/jobs/