INTERNET OPTOMETRY: ASSESSING THE BROKEN GLASSES IN INTERNET REACHABILITY

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Reachability?

Data Plane vs Control Plane
Reachable ASes – Data Plane vs Control Plane
Is **Default Routing** the cause?

Test IP has test IP 1-3 hops

4-6 hops default route

Test IP 1-3 hops

BGP route
Find out with route poisoning...

AS PATH "0 2 0"

Test site
ASes with Default Routing
Testing Reachability with Dual Probing?
Results of Dual Probed Reachability Tests
Methodological Issues

• Topological coverage (pingable addresses)
• IP to AS number mapping
• ICMP vs UDP probing
Conclusion
Questions? Comments?