MAnycastR: A daily census of anycast

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Anycast provides resilience for critical Internet infrastructure like the DNS and cloud services. **Goal:** Creating a public daily anycast census

Anycast is the practice of announcing IP addresses at multiple locations

Problem anycast is opaque. Which Internet services are anycasted? Where are they located?

Realizing proof-of-concept MAnycast² by Sommese et al.



Integrating iGreedy by Cicalese et al.



Measuring anycast using anycast

Measure using speed-of-light violations based on latencies.

Results



User-friendly dashboard manycast.net Census Date: < È 📅 Tue Mar 25 2025 \checkmark **IP:** 1.1.1.1 Prefix: 1.1.1.0/24 Type: Anycast DETECTOR ^ ANYCAST INSTANCES Anycast-based ICMPv4 Yes 27 Anycast-based TCPv4 Yes 26 Yes 24 Anycast-based UDPv4 GCD-based ICMPv4 Yes 60 GCD-based TCPv4 Yes 19

Geolocation Data



AS

Table 6: Largest ASes originating anycast prefixes.



