

MacNetScan

System 7 LAN scanner - built and deployed via AppleBridge

A System 7 LAN scanner for the classic 68K Macintosh. MacNetScan sweeps the local network over Open Transport and presents, for every reachable device, a live matrix of address, reachability, round-trip time, resolved name, and the services it exposes - plus a set of AppleTalk and TCP/IP diagnostic tools. It is the sibling project to AppleBridge and was built, compiled, and deployed entirely through it.

Capabilities

IP discovery (Scan menu / Rescan)

- Concurrent asynchronous TCP-connect sweep of the local IPv4 /24, up to 24 probes in flight, surviving Basilisk II's cooperative scheduler.
- Three-way per-port verdict - open (handshake), refused (host up, port closed), timeout - so a host is detected whether or not a given port answers.
- Per-host round-trip time and a live, scrollable results matrix that updates as the sweep progresses.

Service identification

- Maps open well-known ports to friendly service labels: AppleBridge (9000), HTTP, HTTPS, SMB, NetBIOS, AFP, SSH, IPP, FTP, Telnet.

Name resolution (per discovered host)

- NetBIOS (NBSTAT), multicast DNS reverse lookup, and reverse-DNS - tried in turn to put a readable name on each address.

AppleTalk (View / Net menus)

- AppleTalk Devices - NBP discovery via an Open Transport name mapper, sweeping every visible zone (not just the local one) to list object, type, zone, and DDP address.
- Zones - enumerates the network's AppleTalk zone list and flags your own.
- AppleTalk Identity - node address, router, cable range, and extended-network status.

TCP/IP tools (Net menu)

- Ping - TCP-connect round-trip timing with per-attempt and average results.
- DNS Lookup - forward name-to-address resolution.
- Traceroute - ICMP/raw-IP hop trace with per-hop address, name, and timing.

Output & configuration

- Save As... writes a tab-delimited text report; Copy places the same report on the clipboard.
- Scan Options... - configurable address range (start/end octet), per-probe timeout, concurrency (slots), and a custom port list.

Interface

- Native System 7 application: full menu bar with mouse/keyboard operation, plus on-screen Rescan / Export / Copy / Quit buttons; resizable and zoomable window with a working scrollbar and a monospaced, auto-sized results table.
- Apple Event-aware (high-level-event aware; quits cleanly via Quit AE).
- Color About box with a drawn radar/network logo.