Polling

"master"

"slaves"
Token passing
MAC addresses
- not hierarchical
- permanent
- unique to interface

Broadcast Addr: FF.FF.FF.ff.ff.ffc

255
Address Resolution Protocol (ARP)
<table>
<thead>
<tr>
<th>IP</th>
<th>MAC</th>
<th>TTL</th>
</tr>
</thead>
</table>

ARP Tables
LAN

Bus

collision domain

repeats to all

Hub

Star

switch

collision domains

A

B

C
Ethernet
- connectionless
- unreliable
- CSMA/CD

$m^{th}$ collision
- pick a number $0..2^m - 1$, $k$
- waits $k \cdot 512$ "bit times"
- tries again
Switches

- builds tables from normal communications e.g. ARP req.