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DE

DNS Software Survey

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survey menu

- starters: when and what

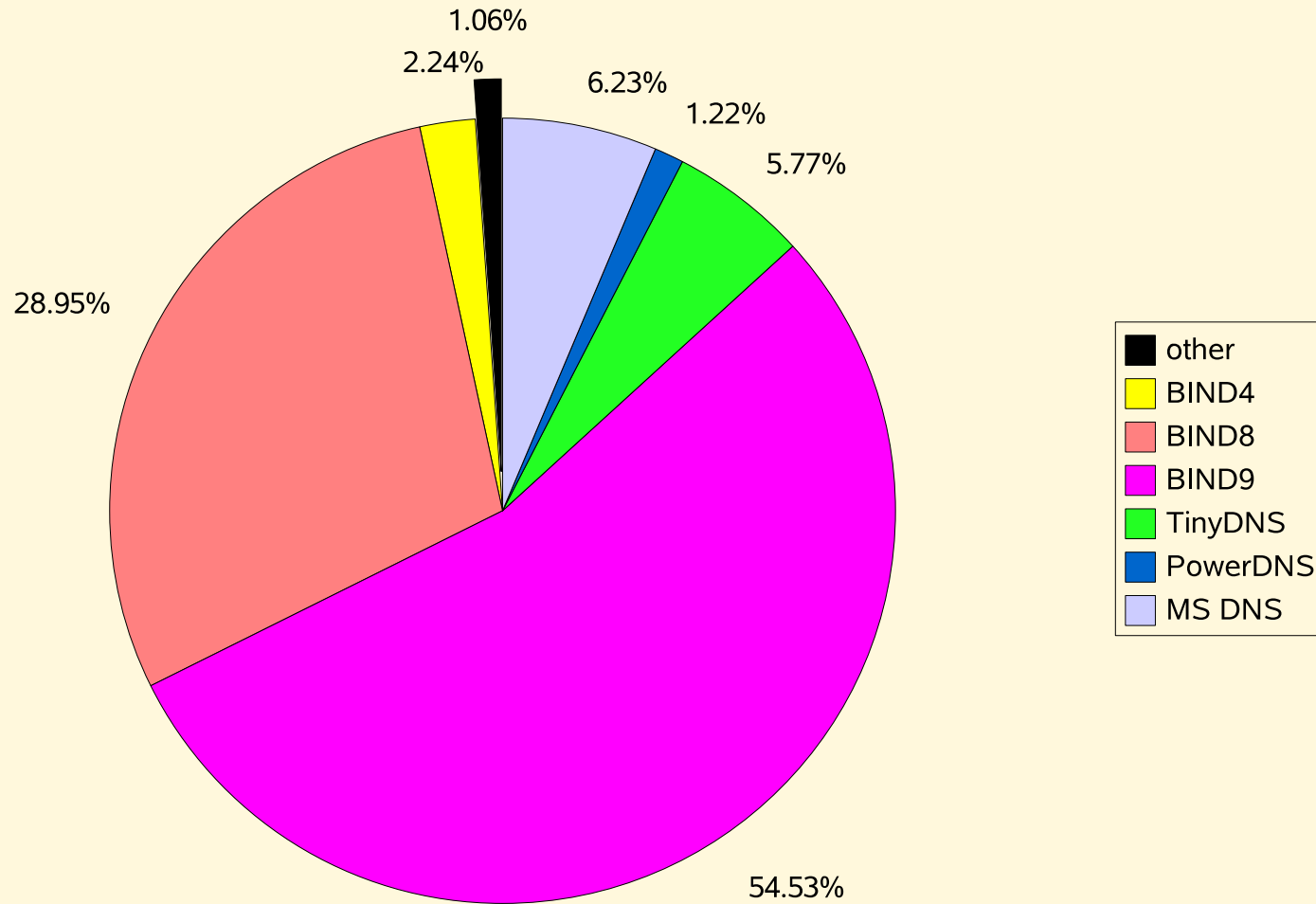- main course: results, statistics and lies

- desert

appetizer

- fingerprinting `DE` nameservers

- using `fpdns` by Roy and Jakob (Thanks!)

- servers identified by `DE` hostcount for March 2004

- survey run early May 2004

- asked servers *for* `DE`, not necessarily *in* `DE`
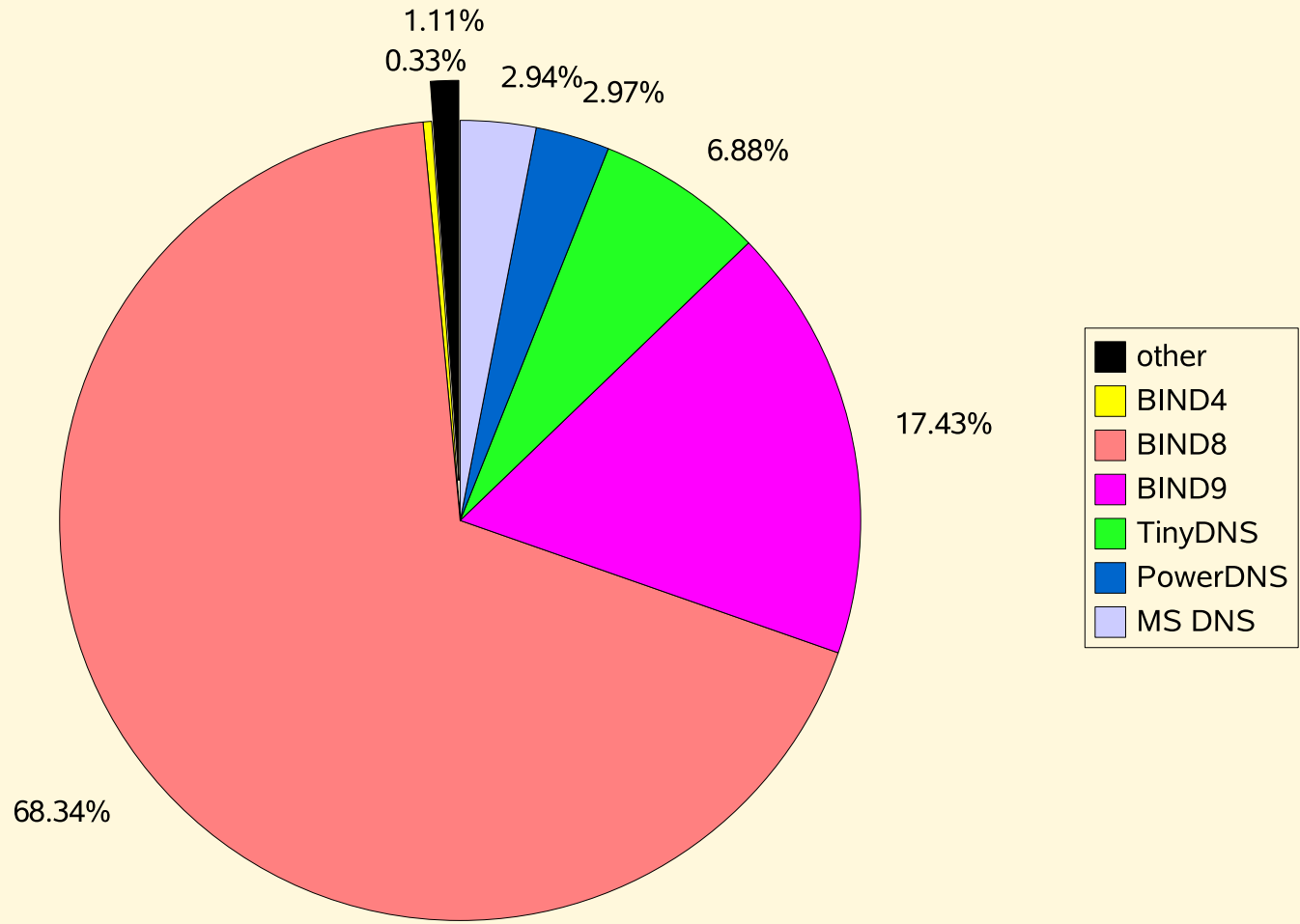
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main course

- approx. 55.000 servers identified

- received answers from 25.500 different IP addresses

- many servers are multinamed

- . . . some do not exist, others have bogus addresses

- found 19 products in 38 versions

- charts only take into account responsive servers

Servers by number

- other
- BIND4
- BIND8
- BIND9
- TinyDNS
- PowerDNS
- MS DNS

1.06%
2.24%
6.23%
1.22%
5.77%
28.95%
54.53%

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Servers by delegation

- other
- BIND4
- BIND8
- BIND9
- TinyDNS
- PowerDNS
- MS DNS

1.11%
0.33%
2.94% 2.97%
6.88%
17.43%
68.34%

Servers by weighted delegation

Pie chart legend:
- **other** (black)
- **BIND4** (yellow)
- **BIND8** (pink/salmon)
- **BIND9** (magenta)
- **TinyDNS** (green)
- **PowerDNS** (blue)
- **MS DNS** (light purple)

Values shown:
- 0.95%
- 0.32%
- 2.25%
- 2.25%
- 6.87%
- 15.60%
- 71.75%

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Servers - combined view

Legend:
- other
- BIND4
- BIND8
- BIND9
- TinyDNS
- PowerDNS
- MS DNS

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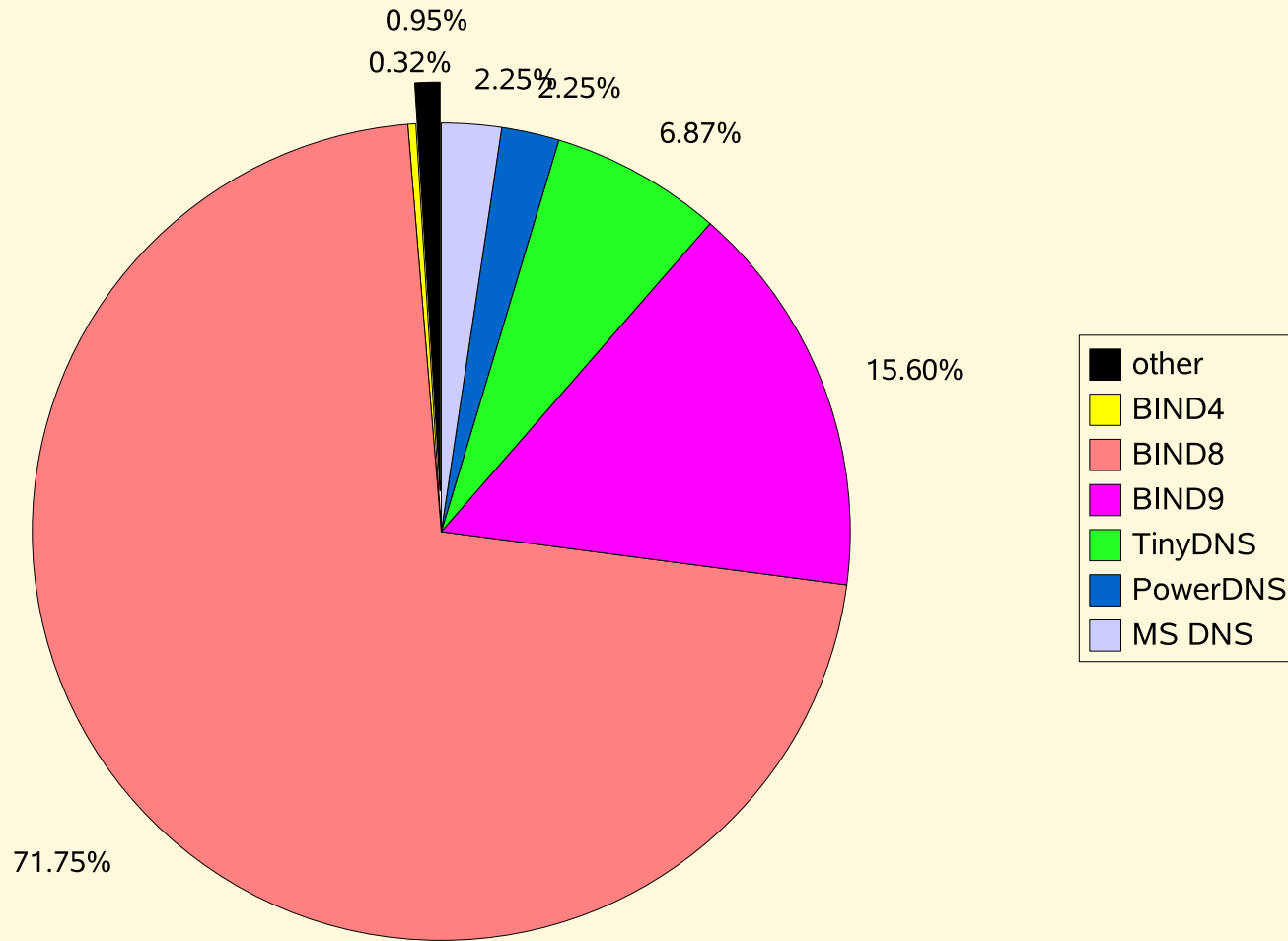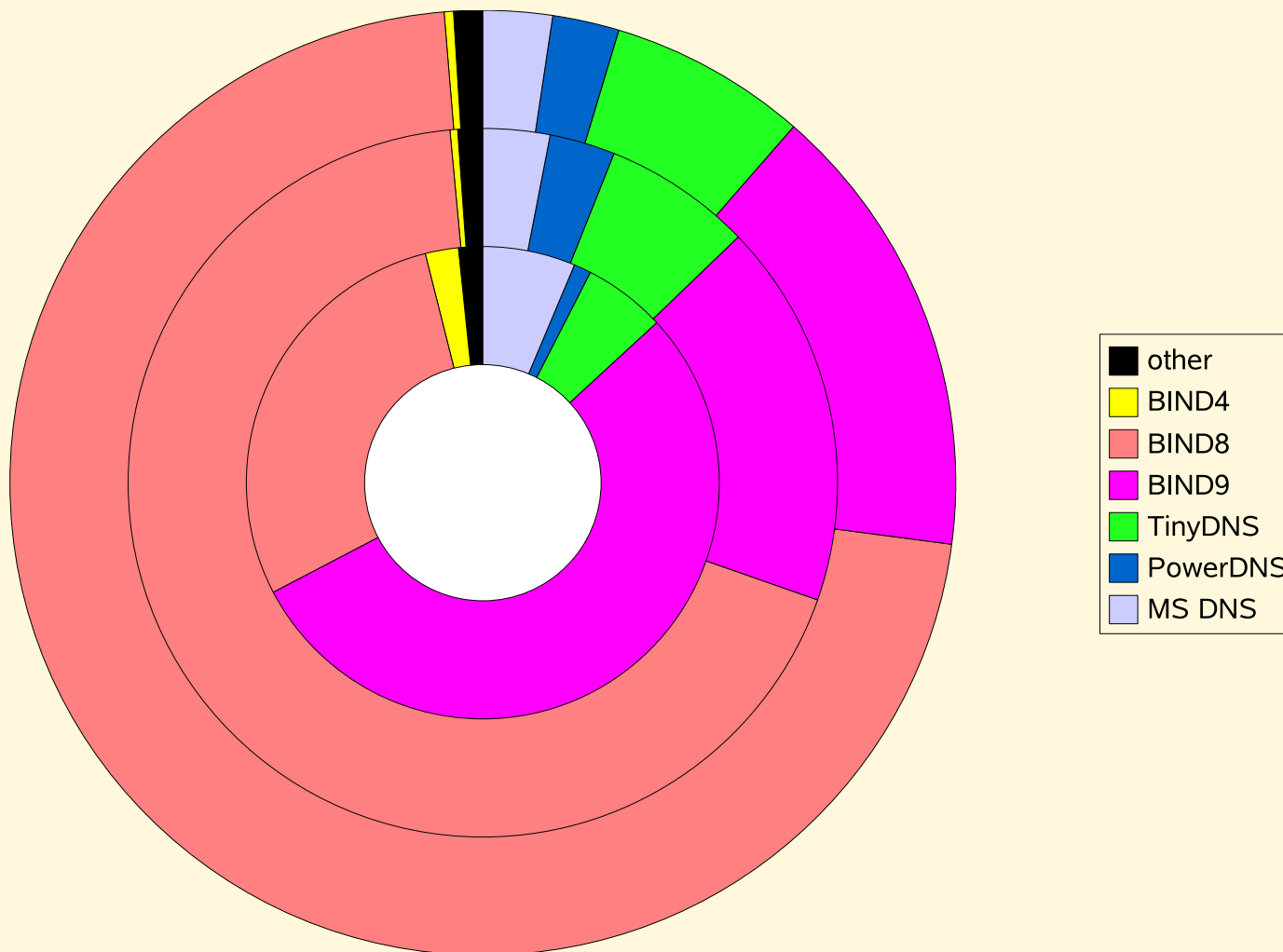
some water into the wine

- third chart still treats all zones equally

- which ones are really *used*?

- really need to know query distribution, to be measured at busy resolvers with large customer base

- isn't resolver software at least as important?

- measure that at the server side?

desert

- recursion available at 64% of all servers!

- some are both multihomed and multinamed

- topmost multihomed server has 201 IP addresses!
  ...but serves only a single zone

- some systems suffer from *split personality*
  BIND 8.1-REL vs. BIND 8.2.2-P3

- PowerDNS follows up with SOA query after `NOTIFY` for "."

- one server (auto)magically tries to load `jjjjjjjj` from test system

- manual (and automated!) reactions due to tracks left

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? – !