C+DNAME testing

CZ.NIC z.s.p.o.
Ondřej Surý
ondrej.sury@nic.cz
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Authoritative DNS side

- Test domain dname.cz
  - Modified Bind9 (courtesy of Mark Andrews)
  - Only few lines changed

- You can view the zone:
  
  # dig IN AXFR dname.cz @\{cool,ignum\}.nic.cz
Recursive DNS side (tests)

- Tested recursive DNS servers
  - Bind9 9.7.x
  - Unbound 1.4.x

- `target.dname.cz` vs `www.target.dname.cz`
  - `target.dname.cz` IN CNAME `cccc.dname.cz`
  - `target.dname.cz` IN DNAME `ddddd.dname.cz`

#dig IN A `www.cnnic. 测试.dname.cz`
#dig IN A `www.cnnic. 測試.dname.cz`
Other tests

● Postfix
  - works OK

● Sendmail
  - Rewrites SMTP-TO address
  - otherwise works OK
Known problems

- Chained caches
  - No way how to ask for DNAME
  - Similar to RRSIG/NSEC
  - RRSIG: ask with DO bit
  - NSEC: ask for non-existant
  - DNAME: ask for something.<owner>

- Applications
  - Special CNAME handling
TBD tests

- What needs to be tested?
  - Send ideas to ondrej.sury@nic.cz