

C+DNAME testing

CZ.NIC z.s.p.o.
Ondřej Surý
ondrej.sury@nic.cz
26. 7. 2010

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 ccccc.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-existent
 - DNAME: ask for something.<owner>
- Applications
 - Special CNAME handling

TBD tests

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