



RIPE Database Update

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RIPE NCC

Outline

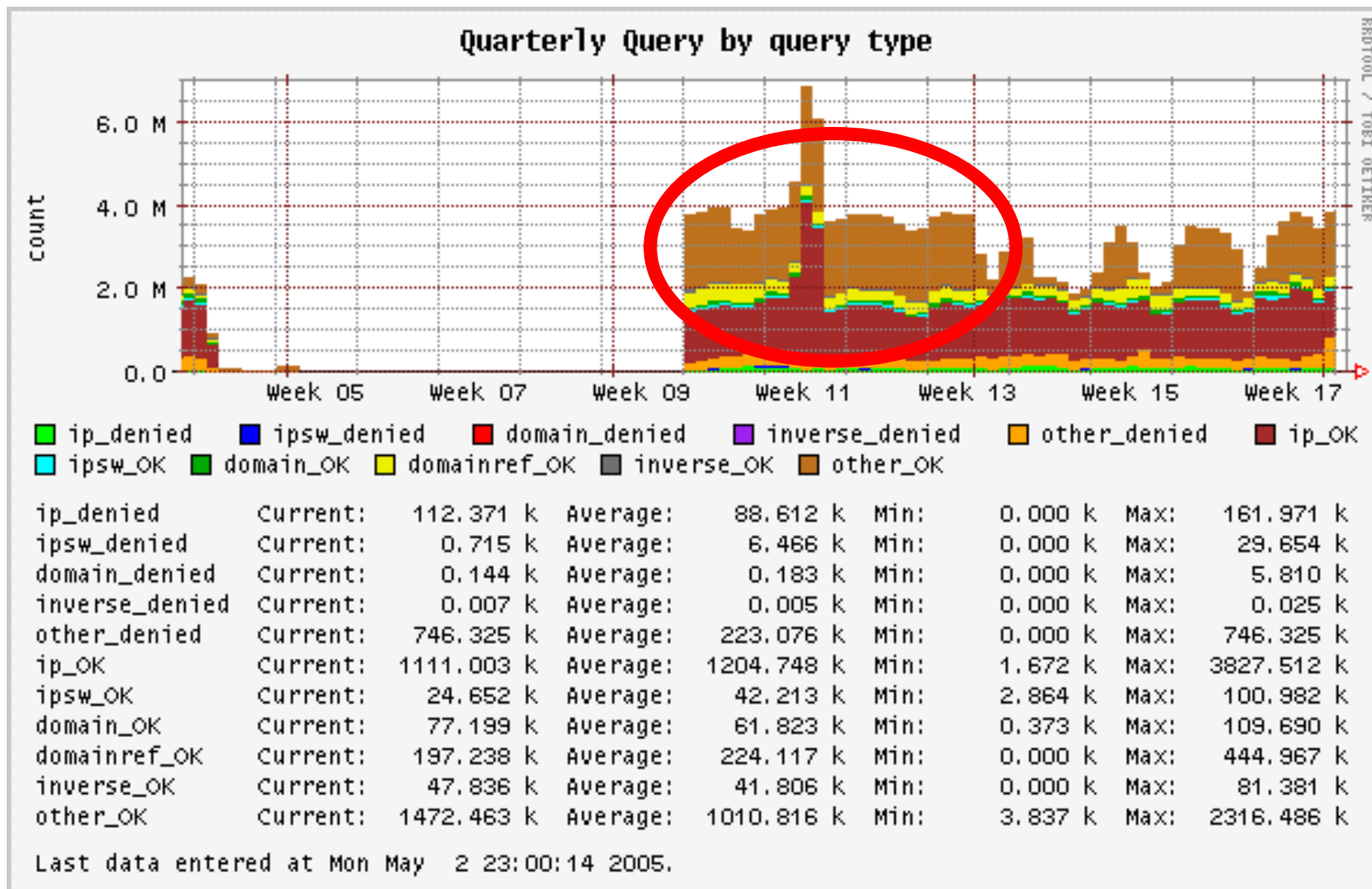
- Database Statistics
 - Database Operations
 - Projects
 - The Future

Database Contents

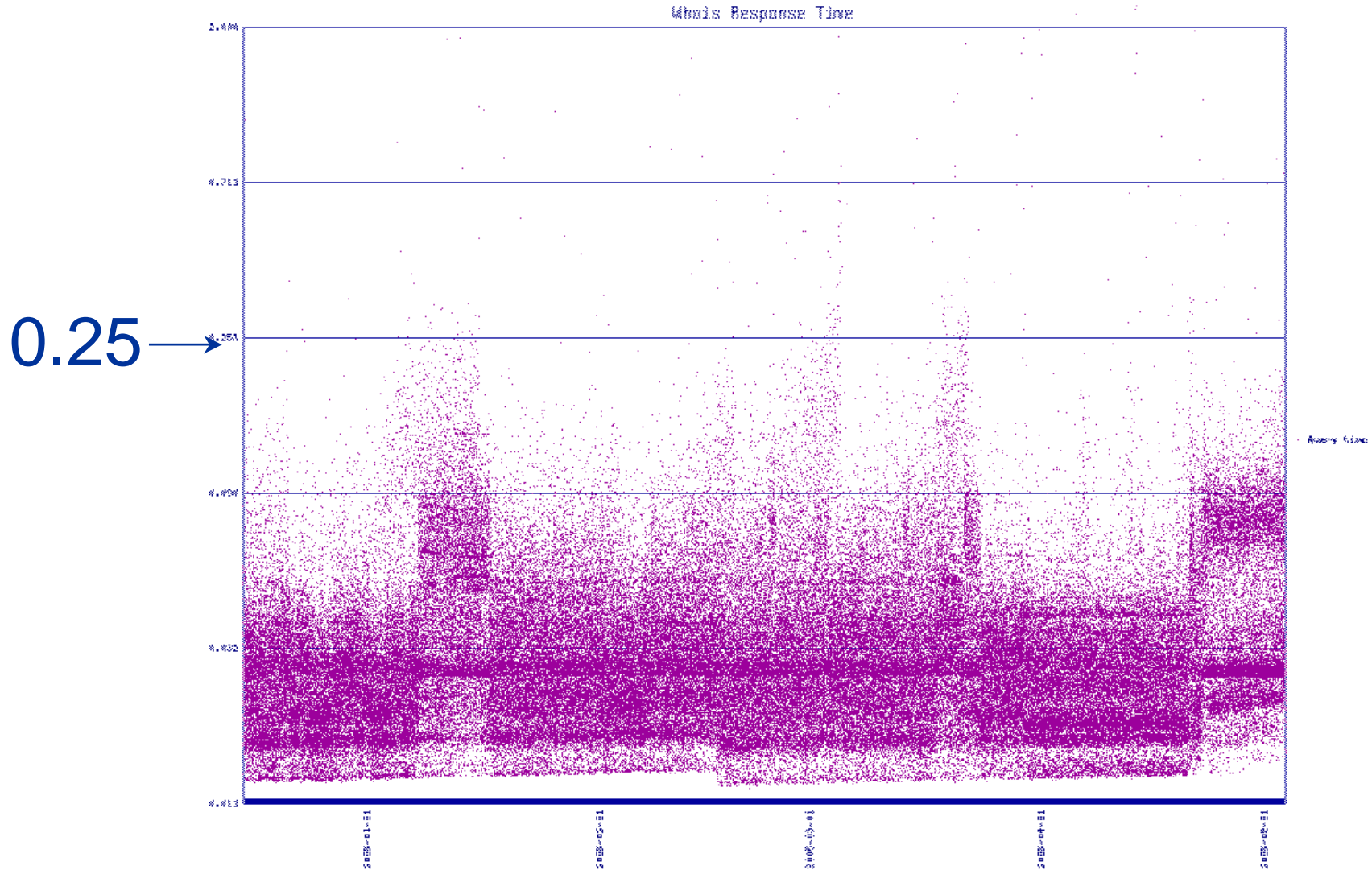
- 2.8 million objects
 - 48% **inetnum**
 - 41% **person**
 - 6% **domain**
- Object counts rise, but ratios remain constant
- All statistics available on-line

<http://www.ripe.net/projects/dbconstat>

Query Rate



Query Performance



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Server Setup

- Had primary/backup setup
 - After 4 years, load overwhelmed system
 - Queries took 1 to 10 seconds – or more!
- Moved to “semi-hidden-master” setup
 - Updates on `whois-update.ripe.net`
 - Queries OSPF load-balanced to `whois.ripe.net`
- Performance much better
 - Updates faster than ever, estimate 6 to 8 times faster
 - Back to 2001 speed for queries; average 0.1 second
 - Estimate HW can handle 10 to 20 times current queries

RIPE DBM

- General purpose database help
- Load-balancing user support specialists
 - Vasco changed to 50%
 - Trudy working 80%



Please e-mail ripe-dbm@ripe.net if you need help with the RIPE Database.



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RPSLng

- IPv6 and multicast information in RPSL
- Based on IETF RFC 4012
- Available starting at end of 2004

- 113 **route6** objects
 - Versus 43774 **route** objects
- 23 **aut-num** objects with “mp-*:” attributes
 - Out of 9829 **aut-num** objects



Abuse Changes

Please refer to separate presentation.

poem Object Type

- Limerick object type was available
- No other type of poem was allowed
- Proposal was discussed in DB-WG mailing list:

<http://tinyurl.com/bszqt>

- Added **poem** and **poetic-form** object types
 - **poetic-form** documents what the type of poem is

poem Migration

- Database ready to accept haikus and limericks
- **poem** objects created for **limerick** objects
 - Put into DB with “poetic-form:” for limerick
- Old **limerick** objects will be kept in DB for a while
 - Cannot be updated

Public CVS

- Whois code has long release cycles
- Problematic for people sharing code
 - Want bug fixes
 - Need new features
- Can now get “latest & greatest” from CVS
 - <http://www.ripe.net/db/cvs-bugzilla.html>
- Bugzilla with known bugs also on-line
- Public release (3.3) coming



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The Future

- Native IPv6 integration
- Domain-name “fixing”
- Improved NRTM
- Improved RFC 2822 (e-mail address) handling?
- On-line poll for Whois query users
 - Via web Whois query page
- CRISP / IRIS work
 - IETF activity continues
 - Development work stalled



Data Integrity Project

- Partially from RIPE working group discussions
- Outlined in RIPE NCC 2005 Activity Plan, ripe-339
- Set of smaller, related activities
- Techniques:
 - Change systems to prevent incorrect data
 - Clean-up bad data
 - Create mechanisms to monitor quality
- Fix data
 - Inter- and intra-database
 - Compared to “real world”



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