l'QlikDev Latino América



Server Sizing

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Agenda

- Questions to answer
- Hardware Scaling
- Factors that affect Performance
- Utilities to help



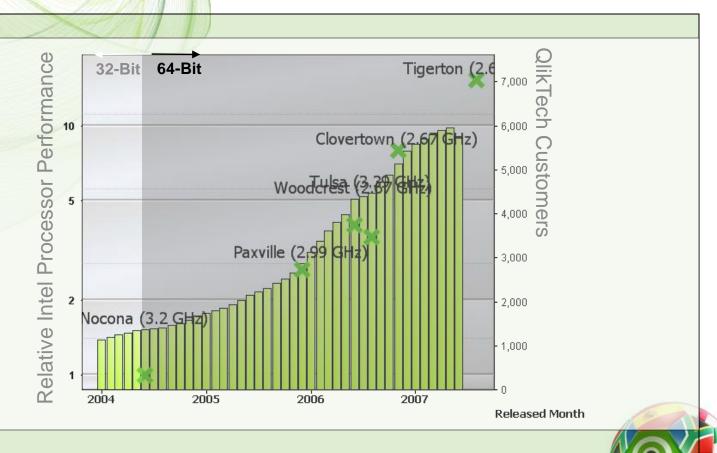
What are we trying to Answer?

- How much of a specific dataset can be analyzed?
- How many concurrent users?
- Based on the dataset and number of users what is the server size required?



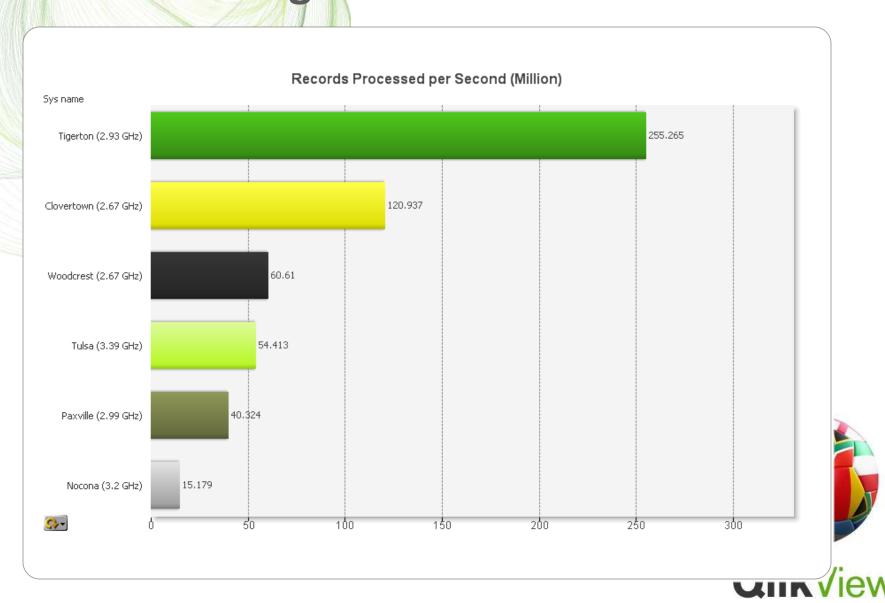


The Platform Shift over time

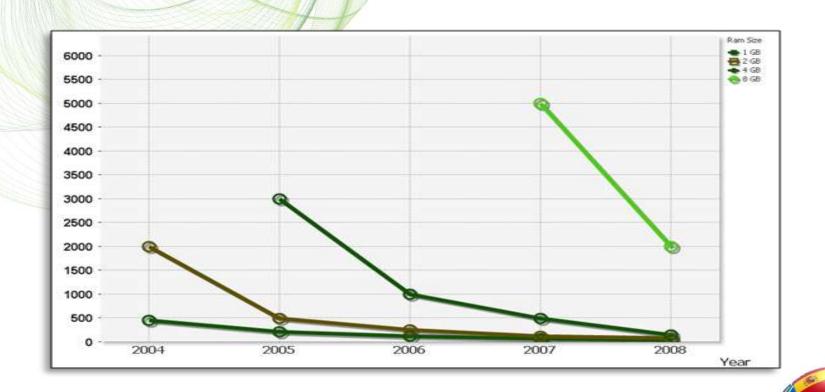


- QlikView is uniquely positioned to benefit from the current hardware sh Multi-core, 64-bit addressable memory
- Technology takes off when its: cheap, pervasive, and stable

On The Right Side of Moore's Law



Perfect Scaling on multi-processor, multi-core hardware





The Impact of Best Practices on Sizing

- Well written data models out perform poor designs
- Design and hardware are interrelated.





The RAM factor



- Entire QVW loaded
- Virtual Memory is Slow
- Dedicate the server



The Processor Factor



- QlikView scales ~100%
- Calculations affected



The Hard Disk Space Factor



- Rarely an issue
- Drive speed
- Cheap



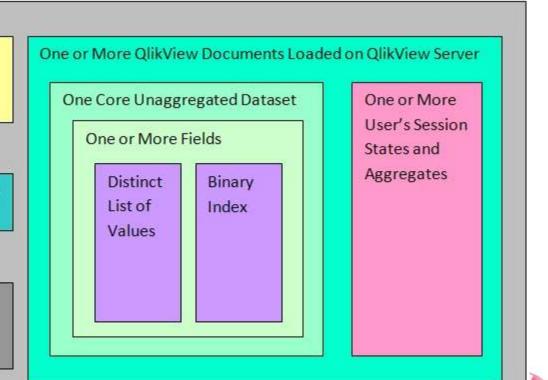
How RAM is Used

Total RAM on a QlikView Server

RAM for Operating System (Windows) - Approx. 500 - 1000 Mb

RAM for QlikView Server Process – Approx. 30 - 100 Mb

RAM for Other Applications Running On Server (Not Recommended)





The data

Applications A B

7,252,383	2,828,396
2.5	3.4
18,233,232	9,570,388
7,352	33,612
	2.5 18,233,232

Fact Table Records	540,151,959	236,314,172
# Tables	31	45
# Fields	117	284
# Objects	41	260



The data

Applications C

File Size	3,542,617	3,637,201
Tile to Management		

File to Memory

Ratio 2.0 1.6

Memory 6,995,868 5,872,648

Memory Per User 8,968 23,572

Fact Table Records 538,376,420 69,857,941

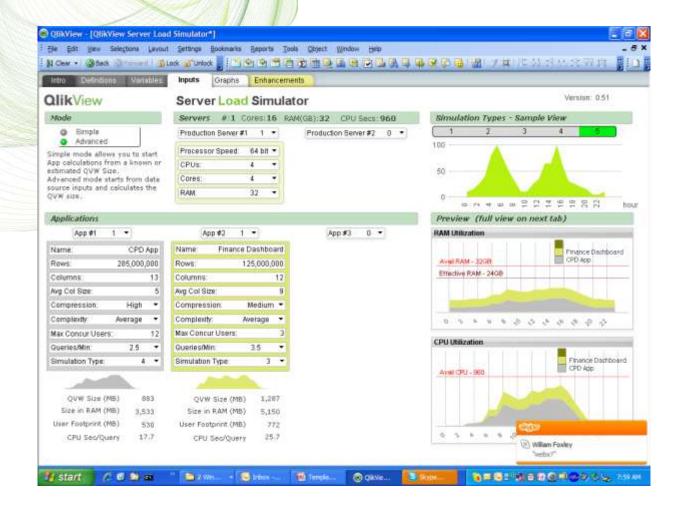
Tables 8 1

Fields 56 33

Objects 25 185



Simulator

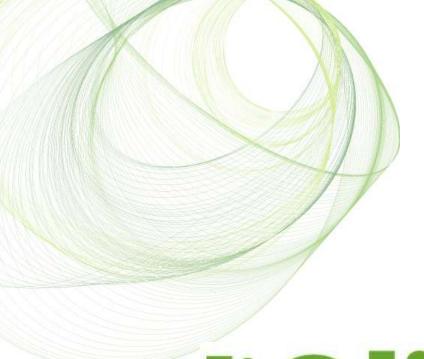




Design Considerations

- Flatter is better
- Avoid Counts and Count distinct
- No Synthetic Keys
- Set Analysis faster than nested If(sums)
- Aggregation can help
- Use Numeric Keys





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