

A Renaissance for database systems research

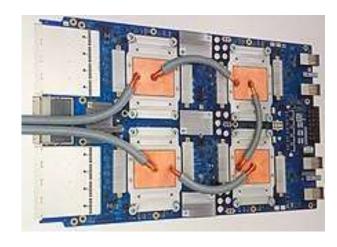
- Martin has pioneered and continues contributing many new ideas to database systems
- He did this at a time where there was limited appetite for innovation in databases: the big engines dominated
- We are in a new era of database research where almost nothing is cast in stone and where Martin's creativity will continue inspiring us!



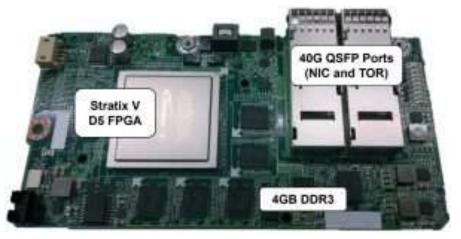
Specialization on the rise

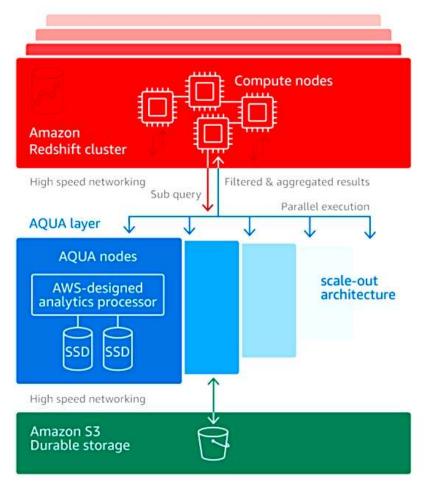
- General purpose is history
- Specialization is the name of the game
- Cloud computing is the game changer:
 - Turning IT into a service industry instead of a manufacturing gig
 - Hyperscalers dominating the market
 - Economies of scale
 - Not have to worry about client side deployment
 - Build what works best for the job (conventional computers ain't it)

Examples abound ...



Google's TPU



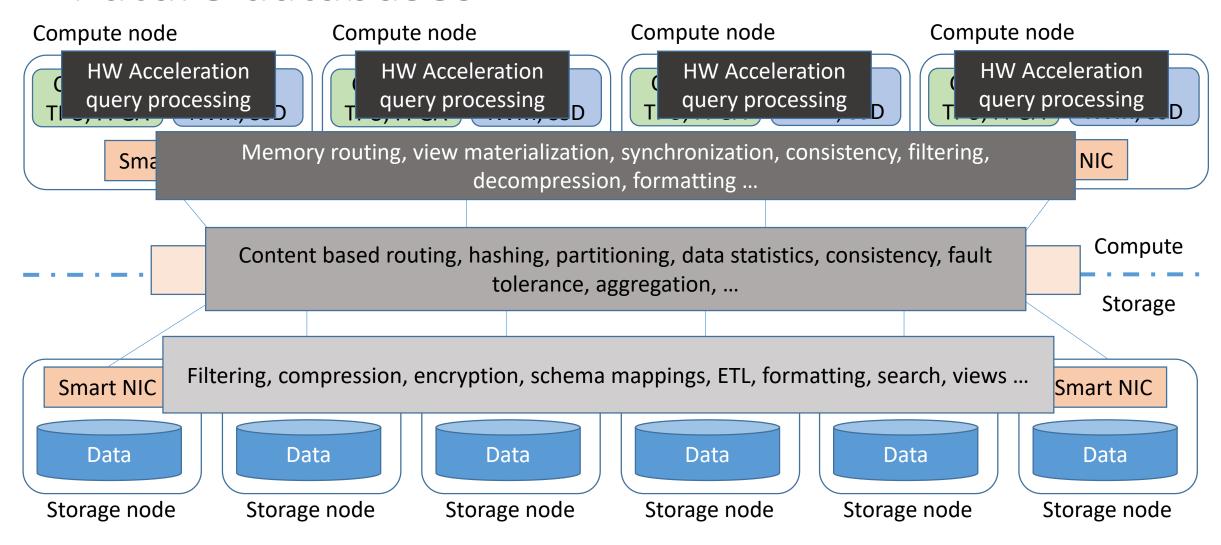


Amazon's AQUA

Not only the big ones ...

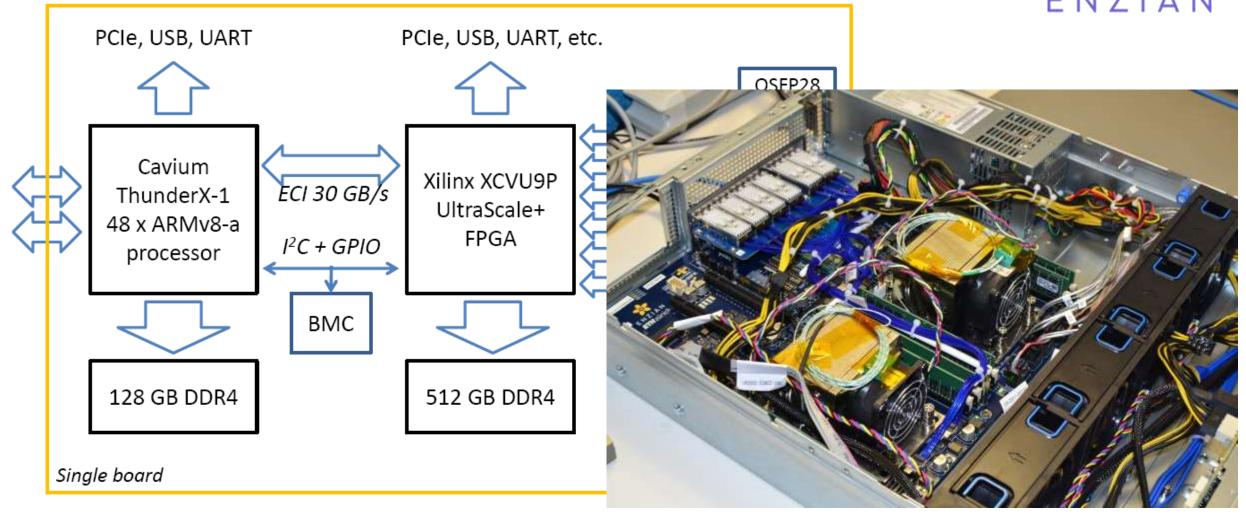


Future databases



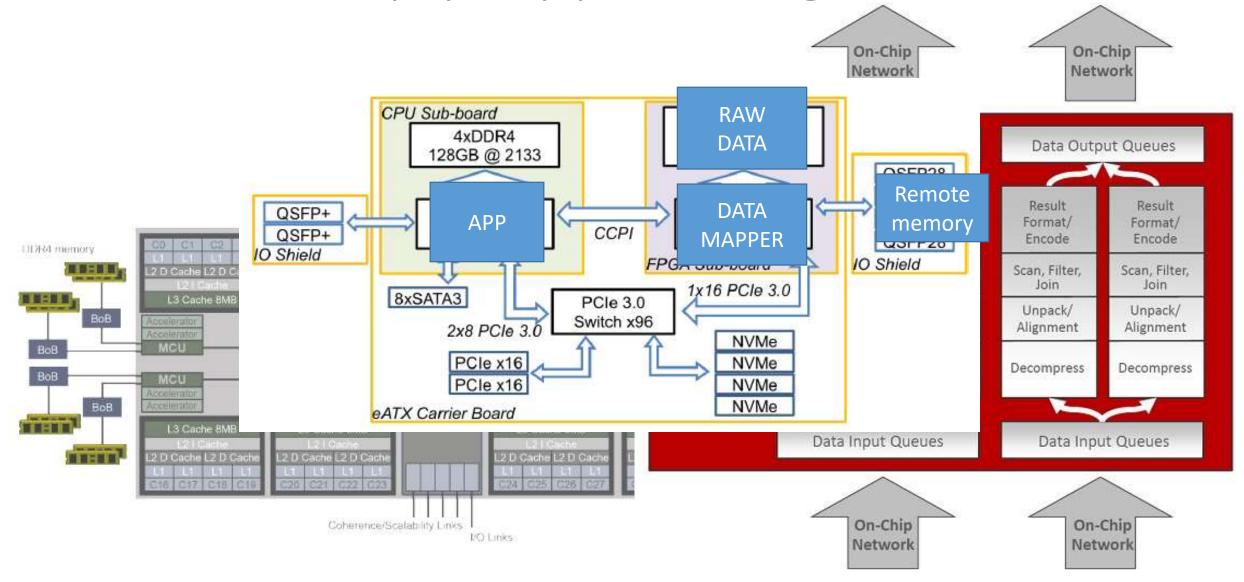
A platform for exploration: Enzian



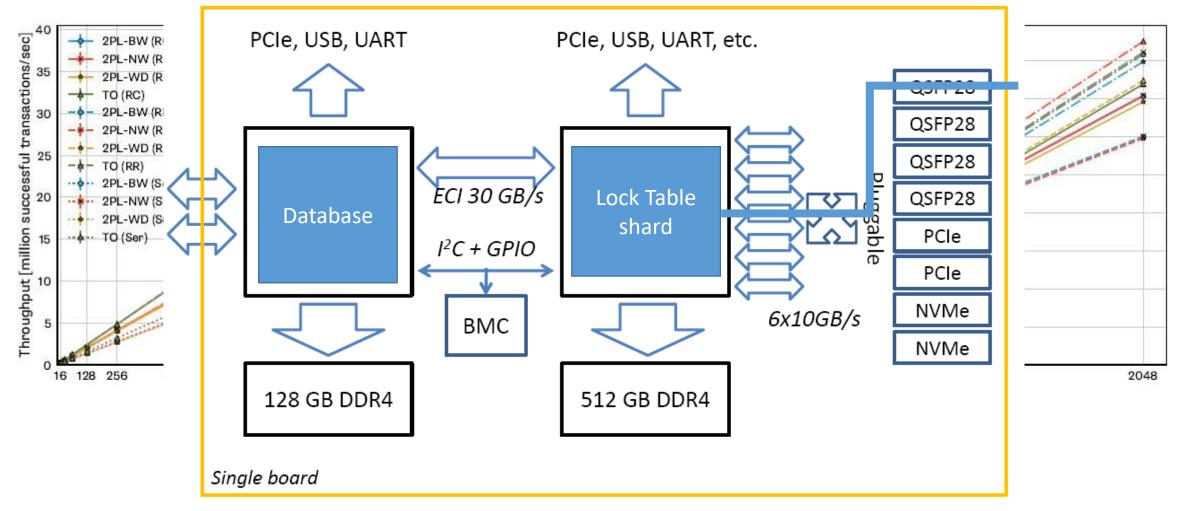


Joint work with Timothy Roscoe (ETHZ)

Near memory query processing



Accelerating transactions



An interesting outlook

As cloud becomes the dominant computing platform ...

... databases will abandon conventional architectures ...

... and will become a far more dynamic data processing platform.

We are back to the design board with most assumptions about how databases work no longer being valid and almost a blank slate to develop new things

Thanks Martin for being such an inspiration all these years