

OVERVIEW

Speed, Flexibility, Smartness and Scalability are the essential design criteria of the Hilbert Solution.

Implemented through a highly eclectic folio of software, hardware, and scientific methods and algorithms, the Hilbert Solution performs data access and analysis at ultra high-speed over large and often distributed volumes of data. This speed delivers unparalleled performance in business intelligence. Key technologies have been patented to protect years of research and development and to make Hilbert unique.

Levels of Optimization

There are four levels at which Hilbert Architecture scales up to outperform in distributed and large data volume environments:

Data

Quantification

- n Converts text and numbers to unique Base-40 integers.
- n All information will be stored in the Hilbert Space as multidimensional data points

Benefits

- n Unlimited managed space for data
- n No specific indexes needed
- n Can be configured to use any base as needed to satisfy language requirements
- n Support of all languages single or double byte, European or Asian

Software

Binary Search

- n Sorts all single-number files (from numbers and text) so that all information can be accessed with binary searches

Benefits

- n Fastest number search algorithm for large sets of numbers now effectively applicable to text search
- n Finds any number in a list of 4.2 billion numbers in 32 jumps - 32 nano-seconds on a standard PC
- n Performance so speedy that it appears to be independent of volume

Mathematical Algorithms

- n Uses fast and highly efficient mathematical algorithms for search and analysis

Benefits

- n Work independent of data quantities

Why Hilbert?

We are the only solution provider for ultra high-speed access, manipulation, storage and analysis of large volumes of structured and unstructured data.

Speed, Flexibility and Scalability have been the design criteria of the Hilbert solution.

The Hilbert solutions are offered as embedded Hilbert Engine technology, standard products or industry specific solutions.

Bjorn Gruenwald, CEO
and Founder of Hilbert
Technology Inc.

Hardware

CPU

- n Bypasses most OS processes
- n Does load balancing between Hilbert Engines
- n Reduces CPU steps to process information through Base-40 conversion

Benefits

- n Ultra high speed analysis over high data volumes
- n Real-time responses at speeds that appear to be independent of data volume
- n Load balanced all-in-one view of distributed data sets/bases
- n Data base consolidation of large and distributed databases

Disc

- n Minimize disc read header movement

Benefits

- n Ultra high speed analysis over high data volumes
- n Real-time responses to requests
- n Fast access to data without limitations

Network

Serverless Network

- n Does load balancing between multiple Hilbert Engines
- n Connects each Hilbert Engine
- n Creates Hilbert Virtual Space for consolidated data(base) view

Benefits

- n Ability to analyze data in ways and volumes not even thinkable before Hilbert Network
- n Data consolidation capability with no interruption of operational databases
- n Balance of workload across multiple Hilbert Engines

Conclusion

Hilbert's business intelligence solutions leverage four optimization techniques for ultra high-speed performance: CPU, RAM, DISC access and network optimization. Together with its patented data quantization technique Hilbert technology scales up to very large sets of data.

About Hilbert

Pennsylvania based Hilbert Technology Inc. is an international provider of business intelligence (BI) solutions for large and medium size enterprises worldwide. The offering is based on the revolutionary, patented Hilbert Engine technology for the ultra high-speed access, manipulation, storage and analysis of large volumes of structured and unstructured data. The Hilbert solutions are offered as embedded Hilbert Engine technology, standard products or industry specific solutions. Organizations in public services, law, government, finance, communications, whole- and retail sales, transportation & tourism and chemical & pharmaceutical can employ Hilbert solutions to gain unparalleled speed in access and analysis over large data volumes.

Notes

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Hilbert Technology Inc.
P.O. Box 330
Newtown, PA 18940
USA
Web: www.hilbertcompany.com
E-Mail: info@hilbertcompany.com
Tel: +1 (212) 252 1600
Fax: +1 (212) 252 1615