

Server Technology

X86

The X86 architecture is a modern workhorse proving a computing platform for most business requirements.

RISC

RISC is the acronym for reduced instruction set computers – a cost effective technology investment providing great performance.

100%

100% availability requires a fully redundant server solution, professional management and a reliable environment.

Micro

Micro servers are off-the-shelf preconfigured server appliances that are designed for ease of installation and maintenance.

CISC

Complex instruction set computing (CISC) refers to computers that are designed with a full set of computer instructions that intend to provide needed capabilities in the most efficient way.

HCI

Hyper-converged Infrastructure is an infrastructure based on a software-centric architecture that tightly integrates compute, storage, networking and virtualisation resources and other technologies from scratch in a commodity hardware box supported by a single vendor.





Datacentrix supplies, implements and integrates many types of server infrastructure to meet the computing demands of any organisation.

No two business environments are identical, but many share similar characteristics, such as the type of business applications deployed, the strategic distribution of application servers, the density of the user population, and the relative distance between the user population and application servers.

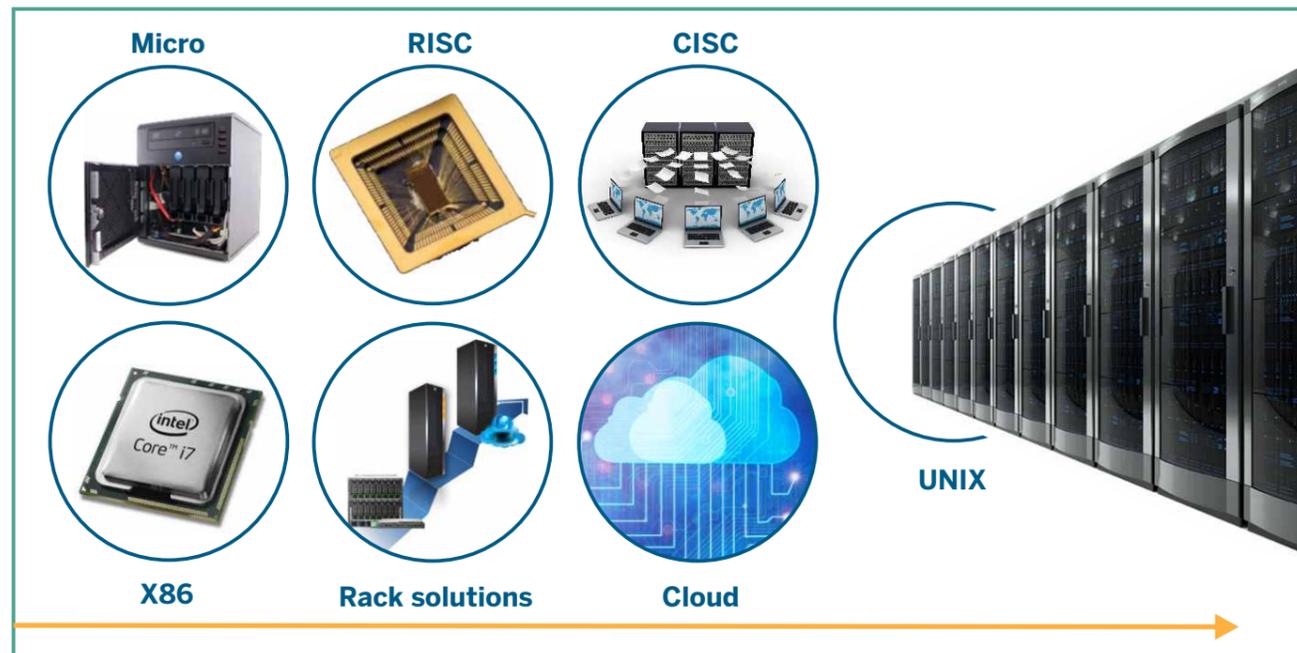
These characteristics have a definitive impact on the server architecture, which will ultimately shape the business technology environment.

Our tier-one vendor relationships allow Datacentrix to design and deploy a solution to meet your most exacting requirements. Whether you need a traditional cluster, a cloud, a web farm or a Hadoop cluster, Datacentrix will deliver a future-proof solution that will quickly payback the best possible business value.

Our highly skilled engineers analyse your needs, design a right-fit solution, procure the technology and commission the server infrastructure. Datacentrix also offers ongoing management, support and maintenance services.

Datacentrix' range of server offerings is focused and designed to meet business needs perfectly:

- **Entry-level micro servers** are small server appliances that work like a server. A micro server is off-the-shelf technology that is designed for ease of installation and maintenance – procured with the operating system, hardware and software preinstalled and configured by the manufacturer or distributor. Micro servers are a popular choice for small-to-medium sized businesses.



- **X86 servers** offer the most comprehensive 'fit for purpose' architecture in the market today. Having grown up from handling simple file/print work, the X86 (64 bit) has become a leading WEB architecture platform. It is commonly used for running critical business applications ranging from ERP, through CRM, to BI solutions. The X86 architecture can handle specialised workloads covering disciplines like weather modelling and advanced financial analytics. The X86 is computing workhorse.
- **RISC (reduced instruction set computer):** This architecture requires and uses fewer instructions than the X86. Designed for high performance, the RISC-based server still remains a cost effective solution.
- **UNIX-based servers** are very stable; enjoying extremely high up time, high availability and reliability. UNIX-based servers tend to perform faster and are more compatible than other architectures.
- **Mainframe servers** (colloquially referred to as "big iron") are high performance computers used by large organizations for critical applications, bulk data processing such as census, industry and consumer statistics, enterprise resource planning and transaction processing that require greater availability and security than a smaller-scale machine can offer.
- **Rack solutions** use an industry-standard form factor reducing total cost of ownership and increasing agility. Rack servers are designed to address workload challenges effectively balancing processing, memory, I/O, and internal storage resources. Rack solutions will provide years of trouble-free performance in all demanding applications. These computers are available in flexible configurations that can adapt to specific project requirements.
- **Power systems and management** solutions are designed to monitor and control energy usage, and can help you to manage energy efficiency, performance, reliability, and availability in IT

operations centres. Power systems and management include support virtualisation and server consolidation efforts that are proven to help conserve energy usage and manage costs.

- **Operating systems:** Every computer needs an operating system. Datacentrix has the tools and processes to commission operating systems thereby reducing the cost of deploying and managing servers through a centralised management model. The Datacentrix solution offers operating system deployment, configuration and soft-ware deployment across server platforms and OS types.
- **Server management systems:** Datacentrix provides the tools that will allow you to professionally manage your server environment. Server management systems are applications that let you view and control server hardware and software (operating systems, applications, and patches) across your network.
- **Converged infrastructure (CI)** is an approach to datacentre management that seeks to minimise compatibility issues between servers, storage systems and network devices while also reducing costs for cabling, cooling, power and floor space. A converged infrastructure can be implemented with a CI reference architecture, with standalone appliances or with a software-driven hyper-converged approach. Datacentrix is well positioned to take our customers on this journey as technology and business requirements come together.
- **Hyper-converged infrastructure (HCI)** is a software approach to data centre management that moves away from multiple discrete systems that are packaged together into a software-defined intelligent environment based on X86 commodity rack servers. All physical data centre resources both hardware and software reside on a single administrative platform unifying all resource types into a single vendor management system that eliminates data centre inefficiencies and reduces the total cost of ownership. Datacentrix has an available product offering with referenceable clients and is well positioned to demonstrate the product to our customers.

Operating systems



Technology partners



About Datacentrix

Datacentrix is a complete ICT systems integrator, providing solutions and services across the full information value chain to its customers. The company uses leading technologies to drive customer business strategies, unlocking efficiencies and empowering meaningful business insight.

Our most valuable assets are captured in the minds and spirit of our people. Every person at Datacentrix is a critical part of our service delivery model and our strategy for generating sustainable value for our customers and stakeholders.

We value partnerships and go the distance to establish trusting, lasting customer and stakeholder relations. Our longstanding affiliations and accreditations with our technology partners enable direct access to technology using the shortest channels.

It's our passion for excellence that drives our innovative and flexible solution design. Datacentrix' value-driven strategy and proven execution capability reinforce its position as one of the top ICT players in the local market.

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