IBM z Systems:
The Mainframe Solution Driving Modern Enterprise Success

Linux on z Systems broadens application choice, expands flexibility and delivers cost-effective performance

index

10x growth in mobile data traffic is predicted between 2015 and 2020.[1]

01.

Doing business in the modern digital world

The explosion of mobile transactions driving next-gen applications (NGAs) and open source development is leaving companies scrambling. Many are turning their focus back to leveraging mainframe technology for effective solutions, and justifiably so. Mainframes are, after all, the workhorse of enterprise, and the integration of existing data and applications with NGAs can help a company efficiently and effectively deliver more today and respond to changing demands of consumers and the marketplace.

Running the Linux operating system (OS) on IBM z Systems® servers can help you address today's biggest marketplace challenges and opportunities by bringing powerful new data, transaction, analytics and provisioning capabilities to a single, powerful, integrated platform that's built for the digital generation.

68 PERCENT of the world's IT workloads run on a mainframe, but the mainframe only accounts for 6 percent of IT costs.[2]

02.

The true power within the z Systems mainframe

Misconceptions abound about mainframes: they are limited in their capacity, they have an inflexible infrastructure or they cost more than a distributed x86 server base. But running z Systems technology shows you just how wrong these notions are. The reality is that the mainframe is evolving constantly and today's mainframe technology is specifically designed to serve our current world and economy. Which leads us to ask, "How aware are you of the additional benefits that z Systems servers provide for Linux?"

OPERATIONAL IT EFFICIENCY

41 PERCENT

increase in efficiency of IT staff operations[3]

53 PERCENT

reduction in annualized datacenter CapEx/OpEx[4]

USD 2 MILLION

increase in revenue from improved operations[5]

RESILIENCY AND SECURITY

93 PERCENT

reduction in unplanned downtime[6]

The proven robustness of z Systems running Linux

Take the stability and raw computing power of a z Systems mainframe and add the flexibility of Linux OS with its ability to leverage the full value of open source, and you've got a system that positions you perfectly to handle the digital future with confidence.

- 24×7 responsiveness and a reliable foundation able to support the demands of even massive numbers of multiple users
- Lightning-fast provisioning and room for growth that improve responsiveness
- Quick, easy virtualization and open-source flexibility that drive improved resource utilization, productivity and cost savings

LOWER TOTAL COST OF OWNERSHIP

65 PERCENT

lower cost of ownership on an annual basis than an equivalent distributed server solution[7]

461 PERCENT

return on investment over five years for an enterprise with 1,000 users of IT services[8]

"The key benefits in adopting IBM z Systems [technology] are availability, scalability, performance, security, lower licensing costs, easier management, less use of space in the data center and in particular reduced energy consumption."

—**Denio Rodrigues,**
information technology executive, Sicoob

03.

Debunking mainframe myths, misperceptions and fallacies

Debunking mainframe myths, misperceptions and fallacies

The “mainframes are only good for certain workloads” myth

Running Linux on the new generation of z Systems mainframes opens up a world of options for hosting and supporting a broad range of new mission-critical systems and applications. With open source Linux on z Systems, you can consolidate and deploy diverse new workloads alongside your existing applications, while capitalizing on the mainframe’s ability to share all resources including processor, memory, network, I/O and cryptographic features. And those workloads can be deployed and scaled quickly, because you can create new virtual servers on demand in minutes to more efficiently and cost-effectively handle unexpected peaks and valleys in user demand.

REAL-WORLD SUCCESSES

Marist College

Radixx International

CASE STUDY

Marist College

Delivering a robust, security-enhanced platform for education and research that also improves back-office performance

BUSINESS BENEFITS

- **Expands learning capabilities** throughout campus, across the country and around the world
- **Enhances security** through a cloud-based security overlay governing all system traffic
- **Reduces admin complexity** through a cloud-based security overlay governing all system traffic
- **Delivers savings of $350,000** through an improved production environment

Marist College in Poughkeepsie, New York, leverages Linux OS on a z Systems platform to turn the school's existing cloud environment into a mainframe educational cloud service. It delivers mainframe-hosted course curricula to thousands of students including those on campus as well as domestic and international distance learners. The system provides access to more than 600 virtual servers for development, testing and learning activities. Students use a software image that contains the office software, an email environment and large-file drop boxes that can be used for file sharing. They can build system images and experiment with those images, and—should a crash occur—a new virtual server can be created, so everyone can get back to work quickly. The Marist cloud overlays security functions across all of these environments.

"Moving from a server farm to IBM z Systems [technology], we consolidated 172 cores down to just 10."

—Ron Peri,
CEO, Radixx International

CASE STUDY

Radixx International

Enabling innovative flight solutions for millions of air travelers through next-generation technology

Radixx International, a software-as-a-service provider for airline reservation systems, is realizing the full value of IBM's innova¬tive advances in big data and analytics. It opted to replace its server farm with a scalable mainframe that can pro¬cess up to 2.5 billion transactions per day. Greater access to data, uninterrupted processing bandwidth and improved functionality through open source tools increase the speed with which Radixx can develop, test and deliver innovative resources for airlines and travelers alike. The system also drives the company's ability to securely process massive transaction levels without a hiccup.

As a result, it can now run diverse workloads more efficiently, with dramatically reduced maintenance windows, while gaining embedded analytics, real-time transactional insights and a robust disaster recovery system.

SYSTEMS MOVED TO Z SYSTEMS MAINFRAME

- **Database**
- **Big data apps / IBM Cognos® / data warehouse**
- **IBM MQSeries®**
- **Application programming interfaces (APIs)**
- **Payment processing**

40
PERCENT
lower total cost of system ownership[9]

Features of this enterprise-grade, Linux on z Systems solution

- Reliable support for high volume mobile transactions across multiple computing and payment platforms
- Real-time fraud detection on transactions
- Superior system resiliency and uptime
- Reduced TCO realized through enhanced responsiveness, productivity gains and both capital expense and operating expense reductions for hardware, real estate and energy

Debunking mainframe myths, misperceptions and fallacies

The “inflexible infrastructure” misperception

The Linux OS on the reliable, security-enhanced z Systems platform puts mainframes squarely in the middle of the open source arena of DevOps, platform-as-a-service, application development and APIs. Fueled by the adoption of a full stack of open source components ranging from the operating system and hypervisor through the application runtime layers, z Systems technology enables customers to develop and deploy new applications with unprecedented responsiveness using the latest approaches and tools.

REAL-WORLD SUCCESSES

Sparda-Datenverarbeitung eG

EVERTEC

"Today, we deploy new systems quickly and scale systems as required, and optimized virtual machine sizing helped us reduce our data center costs."

—Bernd Bohne,
department head, central systems technology,
Sparda-Datenverarbeitung eG

CASE STUDY

Sparda-Datenverarbeitung eG

Expanding system scalability and increased reliability improve account holder service for millions

BUSINESS BENEFITS

- **Accelerates deployment of new systems** through increased performance and server virtualization
- **Offers superior system availability** led by automated swap-over of Linux services between servers for failover within seconds
- **Reduces total cost of ownership** about 50 percent by streamlining administration across a multi-tier environment

Sparda-Datenverarbeitung eG (SDV), which serves 3.5 million customers and 23 million accounts, needed a new IT option that would increase the capacity and performance of its massive databases and state-of-the art software. The solution also needed the flexibility to improve resiliency and reduce its total cost of ownership (TCO) for mission-critical applications across a number of platforms. IBM delivered a coordinated disaster recovery solution specifically designed for customers running a multi-tiered architecture. This Linux on z Systems solution enables SDV to easily move Linux services from one physical z Systems server to another within seconds, helping to minimize failover and recovery time.

Features of this enterprise-grade, Linux on z Systems solution

- Database consolidation with simplified administration that enables a team of three to manage 120 servers
- Automated failover within seconds for 24×7 availability
- Integrated networking to eliminate connectivity delays

DAYS TO HOURS: provisioning new virtual servers takes just an hour or two versus days to provision a physical server.

"IBM z Systems [technology] is now our strategic platform for all Oracle workloads. It is our first choice when bringing up new databases and moving existing workloads over from the distributed environment."

—Eduardo Camargo,
executive VP and CIO, EVERTEC

CASE STUDY

EVERTEC

Streamlining the processing of billions of transactions by upgrading existing mainframe

BUSINESS BENEFITS

- **Offers high performance** and near-total availability to support transaction processing
- **Reduces costs, footprint and energy use** by consolidating multiple physical servers to a virtualized environment
- **Accelerates provisioning** of virtual servers to support workload demands

80 PERCENT

reduction in energy consumption and facilities.[10]

EVERTEC processes more than 2.1 billion transactions annually and manages an extensive electronic payment network. Its success depends on fast, secure and effective processing around the clock. To ensure continued delivery of the top reliability that its business demands, EVERTEC added a Linux OS upgrade to the IBM z Systems servers it has relied upon for more than 25 years. The revamped platform, which now includes all the company's Oracle database systems, supports business-critical financial applications, including those used for transaction processing, as well as hosted environments for customer systems.

Capabilities of its enterprise-grade, Linux on z Systems solution

- Virtual provisioning of new servers that boosts business agility
- Unmatched virtualization and workload management for near–100 percent utilization of resources in a multiple workload environment
- Massive workload consolidation onto a single system that reduces energy consumption and facilities requirements by up to 80 percent
- Fast migration of approximately 40 databases and multiple workloads
- Top levels of performance and reliability needed to keep mission-critical financial systems running 24×7
- Highly cost-effective platform

Debunking mainframe myths, misperceptions and fallacies

The “higher cost” fallacy

The perception that mainframes are more expensive than a distributed server environment is only accurate for a narrow one-to-one comparison of hardware, but even then the comparison is misleading. When you start looking at the additional value associated with a mainframe solution, including IT infrastructure cost reduction and avoidances, IT staff efficiencies, the ability to run diverse workloads concurrently and improved business outcomes, the per unit breakdown reveals a much different truth—one where a z Systems mainframe has a 65% lower total cost of ownership (TCO).

REAL-WORLD SUCCESSES

China Steel Corporation

gkd-el

CASE STUDY

China Steel Corporation

Reengineering the IT environment to enable real-time analytics and more efficient processing

By deploying an open systems platform on the Linux operating system, China Steel Corp. (CSC) can now carry out real-time analytics. For example, using decades of production and transaction data to simulate steel prices, the solution can create a pricing model for production based on fuzzy analytics. By comparing current and historical conditions, CSC can optimize pricing, better manage supply chain and grow revenue.

BUSINESS BENEFITS

- **Reduces software licensing costs** around 15 percent by running Linux on a z Systems mainframe
- **Accelerates system speed** so operations that had taken 10 minutes can be completed in just 10 seconds
- **Delivers 40% greater hardware efficiency** through increased data size, improving system processing to five million records daily

60x

increase in system speed, reducing to 10 seconds operations that previously took 10 minutes[11]

"By migrating to IBM z Systems [technology] and conducting associated streamlining work, we were able to reduce our monthly operational costs for the mainframe environment by 30 percent."[12]

—Willi Lohmann,
CEO of gkd-el

CASE STUDY

gkd-el

Cutting monthly operational costs by almost a third with a mainframe environment

BUSINESS BENEFITS

- **Reduces operational costs** by 30 percent a month
- **Creates operational efficiencies** by reducing processing from 10 minutes to 10 seconds
- **Increases hardware proficiency** by 40 percent through increased data size, and now the system can process five million records daily

Needing to update its systems in order to continue to meet its guaranteed response times and service-level agreements, German IT services company, gkd-el, chose to consolidate its hosting operations onto a new z Systems mainframe. It deployed a consolidated enterprise resource planning (ERP) infrastructure using SAP ERP, Linux for z Systems and z Systems technology. The resultant environment, which is accessed by roughly 2,000 users, contains the underlying data for administration procedures throughout the city of Gelsenkirchen as well as back office data for gkd-el's other customers. The new operational efficiencies created by the system have reduced overall operating costs and help improve service availability and performance for its customers.

04.

Benefitting from Linux on z Systems

z Systems users have a better choice as to how they adopt and deploy enterprise Linux and open source technology. When you combine Linux OS on the z Systems mainframes you love, you get an enterprise-grade platform that delivers data center simplicity, workload efficiency, dependable operations and cost-effective ownership.

This is a solution built on the idea of "simple," with Linux OS seamlessly integrating alongside other open source layers including middleware, structured and unstructured data, big data and analytics. Add on top of that, systemwide adoption of open source components that extend across the operating system to hypervisor to the application runtime layers, and you've got a robust Linux infrastructure with fewer components, reduced management needs and lower software costs. It is an economical, flexible solution that can be used to confidently deploy business-essential applications, optimize operating costs and achieve seamless infrastructure growth.

COMBINING LINUX WITH Z SYSTEMS TECHNOLOGY CREATES A HIGHLY EFFECTIVE SOLUTION THAT IS:

- → **Open.**
  Choose the tools and applications you love
- → **Flexible.**
  Meet demand with practically limitless scale
- → **Simple.**
  Fewer servers, less complexity and lower cost
- → **Efficient.**
  Get virtually unparalleled utilization and speed
- → **Trusted.**
  Embedded security and services

The Proven Robustness of z Systems running Linux

Extending existing workloads

Porting diverse workloads over to a z Systems server and running them in Linux OS instances will give you the operational simplicity and efficiency of a single server with the powerful scalability and responsive flexibility of a massive server farm. The result is a reliable, mission-critical framework able to meet the workload needs of even your most data intensive applications and processes. However, the power of Linux on z Systems to transform workloads doesn't stop there.

Rapid deployment, straightforward configuration and easy management of virtual servers enable massive scalability at a moment's notice, so you can cope with whatever surges in traffic might arise. The system can even be configured to intelligently manage server resource allocation based on workload needs. Meanwhile, built-in resiliency analytics that drive near-real-time diagnostics help address IT problems quickly, minimize availability lapses and intervene before IT problems become severe. With capacity to handle such demands, it's easy to see why Linux on z Systems is an ideal way to support multi-application workloads.

REAL-WORLD SUCCESSES

California Department of Motor Vehicles

Bankia

"The new infrastructure is more than three times faster and effortlessl handles traffic levels that would have crashed the old system. It is also generally higher performing and more responsive."

—Stacy Cockrum,
deputy director and chief information officer,
California DMV

CASE STUDY

California Department of Motor Vehicles

Stripping away website complexity by migrating to a managed mainframe solution

BUSINESS BENEFITS

- **Shifts focus to customer service** by removing IT maintenance overheads
- **Saves extensive staff hours** previously spent on crisis management and maintenance for site
- **Maintains site availability and performance** with minimal increase in CPU usage
- **Offers superior system availability** by providing automated failover within seconds
- **Maximizes development options** through the system's open architecture

3x

faster website performance, even under extreme visitor spikes

Anticipating an unprecedented surge in site visits resulting from new state legislation, the California Department of Motor Vehicles (DMV) opted to migrate its website to a Linux on z Systems mainframe platform managed by the California Department of Technology. This freed the DMV from the burden of platform maintenance, by stripping away the complexity of the DMV's previous landscape. In addition to enabling tens to hundreds of guest images to run on a single z Systems server, the new mainframe solution delivers ultra-fast provisioning, security-enhanced, high-performance virtual networking and transparent access to mainframe tools for scheduling, automation, performance monitoring and virtual machine management.

Features of this enterprise-grade, Linux on z Systems solution

- Superior platform stability for reliable performance in the face of major traffic increases
- Reduced overhead and operating costs, realized by offloading maintenance and through improved workforce productivity
- Increased data reliability through built-in backup and disaster recovery solutions
- Cost-effective pricing based on paying only for actual utilized capacity

"Deploying Linux on virtualized z Systems servers represents an enormous advantage for us. In fact, it allowed us to carry out an extremely rapid deployment, saving us a considerable amount of money, time and resources."

—Maria José Álvarez Tapias,
director of the quality management systems department, Bankia

CASE STUDY

Bankia

Boosting competitive advantage by gaining innovative insights

Bankia was established in 2011 as a joint venture of seven Spanish banks and services more than 11 million customers. To analyze huge quantities of business, market and customer data in near-real-time, Bankia chose to implement IBM InfoSphere® software to collect and integrate data from multiple sources, running on a highly scalable z Systems platform. The ability to host multiple virtual Linux servers on the z Systems server has helped Bankia to maximize resource utilization and reduce data center complexity. The solution has boosted productivity by an estimated 400 percent.

BUSINESS BENEFITS

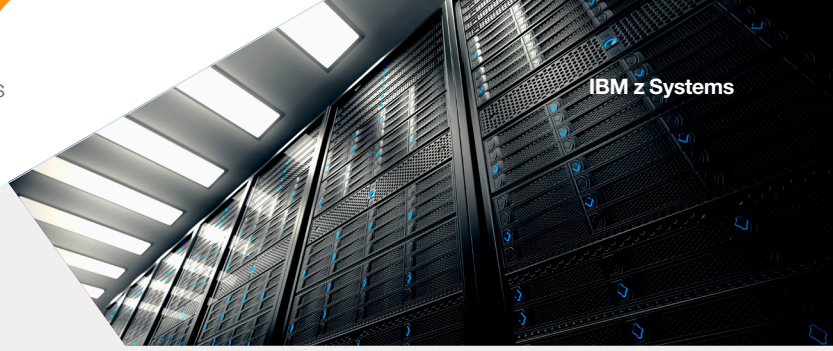
- **Improves decision making** with near-real-time analysis of ever-increasing and rapidly changing crucial data
- **Improves customer service** based on analysis of hundreds of millions of data points
- **Boosts productivity** through rapid deployment of innovative resources
- **Delivers actionable insights** to increase customer satisfaction and create a business advanta

Features of this enterprise-grade, Linux on z Systems solution

- Rapid deployment of servers through virtualization
- Near-real-time data analysis that's designed to be both seamless and secure
- Highly scalable platform that quickly meets ever-changing needs

400
PERCENT

productivity increase from faster deployment, virtualization and security-enhanced, real-time data integration.[14]



Benefitting from Linux on z Systems

Co-location of apps and data

Virtualizing your IT environment by adding Linux to your z Systems mainframe is a great way to establish a more secure, flexible and responsive environment for co-locating the diversity of business-essential applications and systems that are integral to enterprise success while avoiding the high cost or risk associated with maintaining or even expanding a distributed server solution.

Leveraging a z Systems platform running Linux for single-server consolidation and deployment enables applications and systems to access and share data at incredible speeds, and it facilitates the sharing of system resources including processors, memory, networks, I/O and security protocols. It also tightly integrates with other platforms to increase the efficiency with which your data is used and creates enterprisewide economies of scale.

Linux on z Systems also delivers a powerful infrastructure for responsive virtualization. The way it's designed as a solution allows you to grow capacity inside the server on the fly without affecting the running environment. In addition, z Systems technology delivers extremely low latency from one operational virtual machine to another for even greater responsiveness and productivity gains.

Linux is an ideal way to transform the z Systems mainframe you trust into a reliable, mission-critical framework for your applications and data—one with the enhanced scalability, availability, security and agility to transform your entire organization.

REAL-WORLD SUCCESSES

Kenya Power and Lighting Company, LTD.

Sicoob

"Thanks to IBM, we enhanced our ability to measure and monitor business performance against set targets using reliable [key performance indicators]."

—Kenya Power

CASE STUDY

Kenya Power and Lighting Company, LTD.

Improving control, visibility and management for mission-critical systems with a centralized data repository

BUSINESS BENEFITS

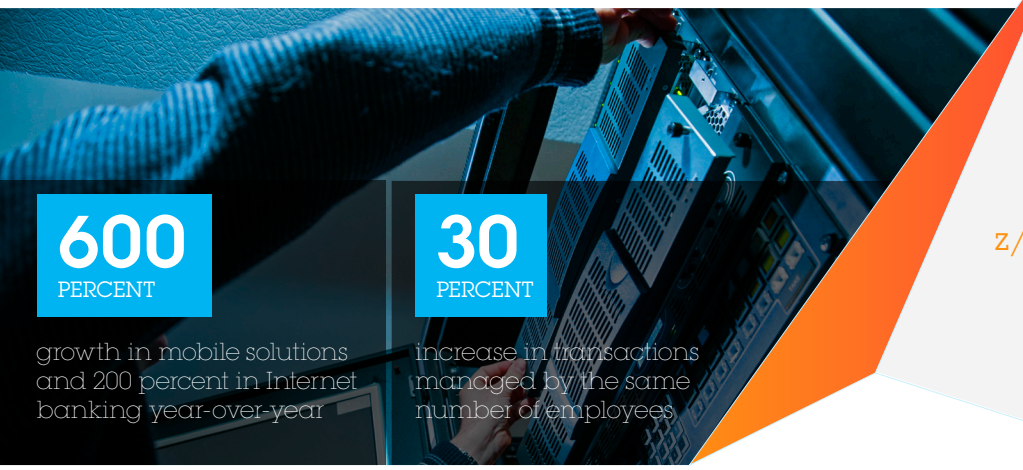
- **Increases capacity and performance**
  fueling effective data warehousing and management
- **Enhances data quality and visibility**
  through advanced reporting capabilities
- **Streamlines IT infrastructure**
  leading to better support for business operation
- **Simplifies compliance**
  resulting from strong data transparency and governance

With wholesale and consumer utility billing data scattered in silos across disparate systems, contributing to poor data quality and energy usage fraud, Kenya Power and Lighting Co. Ltd., the country's national electric utility, implemented an integrated data-warehousing and analytics solution that operates as a centralized data repository.

The powerful new platform, built on z Systems server technology running the Linux operating system, consolidates data from 10 key operational and other data sources to provide a single view of data at the enterprise level. This foundation provides business-intelligence dashboards, forecasts, scorecards and other analytical services to meet both existing users and new business areas, which generates more relevant reports and more accurate operating data for better decision making. This enables Kenya Power to better measure and monitor business performance, so it can meet government regulatory requirements and secure government funding.

Features of this enterprise-grade, Linux on z Systems solution

- Real-time data integration between multiple data sources
- A centralized platform for data quality across lines of business
- Insightful predictive-analytics that guide improved decision making
- Advanced reporting capabilities that deliver a comprehensive, more accurate view of data



600 PERCENT

growth in mobile solutions and 200 percent in Internet banking year-over-year

30 PERCENT

increase in transactions managed by the same number of employees

"With [the Linux OS hosted on the IBM z Systems platform] growth is easy: we can start a new virtual server on [IBM] z/VM® [technology] in secondsor, for a larger requirement, simply turn on a new processor."

—Ricardo Antonio,
CIO, Sicoob

CASE STUDY

Sicoob

Supporting rapid business growth with Linux and robust, more secure and efficient mainframe technology

Sisteme de Cooperativas de Credito do Brasil (Sicoob) had accumulated a diverse set of x86 processor-based servers that was running all core banking services. This sprawling distributed infrastructure was unreliable, costly, inflexible and difficult to expand, leading the organization to make a strategic decision to shift to a private cloud solution.

Today, Sicoob runs more than 300 Linux-based virtual servers on only two z Systems servers. An additional server located at a second site provides a disaster-recovery option and hosts the development landscape. The z Systems environment provides an optimal combination of IBM hardware and software to help the bank tackle the challenges of growth and seize the opportunities of business analytics. With Linux running in virtual environments on its mainframes, the organization has a robust and easy-to-manage platform for processing and storing huge amounts of financial data.

BUSINESS BENEFITS

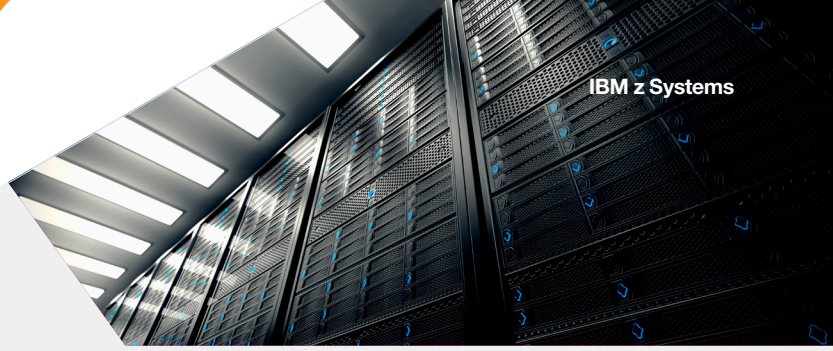
- **Creates a high-performance, unified central database** from millions of transactions executed in branches across Brazil
- **Guides smarter decision making** based around insightful, predictive analytics
- **Streamlines IT infrastructure** leading to greater operational efficiency
- **Drives product innovation** including mobile and social technologies that increase customer satisfaction
- **Provides deeper visibility** across the organization's data landscape

400 PERCENT

reduction in electricity costs, saving USD 1.5 million annually.

Features of this enterprise-grade, Linux on z Systems solution

- A consolidated solution that reduces complexity and software maintenance costs
- Near-real-time access to rich, highly accurate information
- Intelligent insights into data that drive smarter deci¬sion making
- Flexibility and quick provisioning that support aggressive growth
- The efficient management and fast analysis of vast quantities of data



Benefitting from Linux on z Systems

Next-generation applications

Becoming a leader in digital innovation requires the ability to create, test, deploy and manage hybrid apps that embrace a variety of platforms, devices and data. Running the Linux OS with z Systems technology provides all that and more.

Linux on z Systems is a responsive development, testing and deployment platform where new virtual Linux servers can be provisioned in seconds within an environment that allows users to share resources to meet dynamic demand. This is world-class platform for developing better next-gen apps faster for mobile, cloud and analytics—and it lets you do so on your terms.

Linux on z Systems gives you platform independence, so you can create highly portable applications using your favorite resources including IBM, open source and independent software vendor (ISV) developer tools. It is microservices oriented and actively facilitates the generation of reusable code to increase the speed with which you can turn an idea into modern, cloud-native applications built on scalable and resilient architectures. And it provides easy integration for process sharing that supports the modern DevOps development model.

In short, this is app development for analytics, mobile and the cloud specifically designed to make developers' lives easier and help you establish a competitive advantage.

REAL-WORLD SUCCESSES

ABK Systeme GmbH

KEONICS

"With IBM Financial Transaction Manager we have improved our capabilities and can take on new customers quicker, supporting our rapid international business growth of 10 percent per year."

—Armin Gerhardt,
CEO, ABK Systeme

CASE STUDY

ABK Systeme GmbH

Innovating international SWIFT payments on mobile powered by IBM Financial Transaction Manager

Payment logistics specialist ABK Systeme GmbH saw an opportunity to capitalize on an underserved financial mobile app market. To seize the advantage, the company needed to move fast. By relying on z Systems technology running the Linux OS as a mobile application development platform, ABK Systeme is able to accelerate the development, testing and quality assurance of its mobile applications. With a solution that virtually eliminates the need to code applications multiple times for multiple architectures, development cycles were reduced and ABK Systeme was able to introduce a first-of-its-kind mobile app that facilitates sending and receiving SWIFT payments all over the globe.

BUSINESS BENEFITS

- **Hastens time-to-market** through single-software cross-platform development
- **Optimizes process efficiency** by virtually eliminating the need for code duplication
- **Simplifies integration** of web services and authentication systems
- **Delivers strong end-user security** with a robust package of protection features for mobile apps
- **Reduces costs** typically faced with mobile app development

30 PERCENT

reduction in the costs associated with mobile app development.

Features of this enterprise-grade, Linux on z Systems solution

- Single repository to streamline application support
- Accelerated development cycles that speed time-to-market
- An efficient environment for mobile application development
- A quick, security-rich web services plug-in for mobile apps that maximizes productivity
- The ability to collect, store and analyze mobile app usage data
- A broad range of security features to protect customer's devices and sensitive information

"Thanks to IBM, we enhanced our ability to measure and monitor business performance against set targets using reliable [key performance indicators]."

—Kenya Power

CASE STUDY

KEONICS

Leveraging a centralized enterprise resource planning platform to deliver innovative workflow solutions to customers

BUSINESS BENEFITS

- **Speeds development** of customer-facing next-gen apps and infrastructure solutions
- **Focuses resources on innovation** by streamlining internal processes across the enterprise
- **Improves productivity** by centralizing operational systems across the enterprise
- **Reduces development costs** through workflow efficiencies and lower overall operational and ownership costs

Karnataka State Electronics Development Corporation Limited (KEONICS) focuses on world-class infrastructure and innovative workflow solutions for the electronics and IT-related industries in India. To increase its ability to develop and deploy new, next-generation applications that allow its customers to keep pace with the changing digital world, the company implemented z Systems technology running the Linux OS that streamlines high volume ERP and other operations. The platform simplifies the development process and reduces time to market in a number of ways, including through the support of open source solutions and app development.

Features of this enterprise-grade, Linux on z Systems solution

- More effective ERP workflows driven by the same next-gen apps the company develops
- A security-enhanced, open-source platform for developing and hosting application solutions
- Centralized operations that increase companywide efficiency and insight
- A comprehensive ERP dashboard for planning and resourcing, purchasing and inventory, HR operations, HR management system and training
- The flexibility to support high traffic volumes and multiple-user environments

CTA [TBD]

[IBM – we have a possible two-pronged CTA – please let us know if these are what you wish to use]

To receive a cost-benefit analysis that will show you the benefits of expanding or updating your z Systems footprint, **contact your IBM z Systems representative at 1-866-261-3023.**

To learn more about the technology, solutions and services associated with the IBM enterprise-grade platform for Linux technology, please visit:

ibm.com/systems/z/linux

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FOOTNOTES:

1 Cisco Visual Networking Index: Global Mobile Data Traffic Forecast Update, 2015–2020 White Paper, http:/ / www.cisco.com/ c/ en/ us/ solutions/ collateral/ service-provider/visual-networking-index-vni/ white_paper_c11-520862.html
2 Solitaire Interglobal LTD. query response; 9/6/14 (“IT Workload Deployment Percentages – 2014”: http://sil-usa.com/publications.php)
3 IDC White Paper | Quantifying the Business Value of IBM z Systems. September 2015
4 Ibid
5 Ibid
6 IDC White Paper | Quantifying the Business Value of IBM z Systems. September 2015
7 Ibid
8 Ibid
9 Transforming Travel End to End, July 2015 | by Ross Mauri, (http://www.ibmsystemsmag.com/mainframe/Business-Strategy/Executive-perspective/transforming-industries/)
10 IBM case study
11 http://www-03.ibm.com/software/businesscasestudies/us/en/corp?synkey=D806862G73582P99
12 IBM case study