IBM LinuxONE, an all-Linux enterprise platform open for innovation comprising both the best of Linux and open standards, is one of the best at the control of critical workloads, delivers higher performance and throughput, and at a lower cost per transaction compared to x86 servers, and is integrated with new capabilities.

- Runs on a 5.0 GHz processor
- Supports up to 141 customer-configurable LinuxONE cores
- Delivers I/O and high availability through 667 dedicated cores
- Supports up to 8,000 production workload capable virtual machines in a single footprint
- Supports a multilevel cache subsystem and 10 TB memory
- Delivers massive I/O capability that can support 30 billion RESTful web interactions a day without fail
- Delivers up to 2.2x the performance for the same SQL and NoSQL databases running on commodity Linux servers

IBM LinuxONE Rockhopper™ - an entry point for LinuxONE that embodies the same innovation, value, flexible growth options, industry-leading virtualization, trusted resiliency, secure cloud, enterprise mobility, and operational analytics capabilities as the massively scalable IBM LinuxONE Emperor

- Runs on a 4.3 GHz processor
- Supports up to 20 customer-configurable LinuxONE cores
- Delivers I/O and high availability through 264 dedicated cores
- Supports hundreds to over a thousand production workload capable virtual machines in a single footprint
- Supports a multilevel cache subsystem and 4 TB memory
- Delivers significant I/O capability for medium-sized enterprises

Linux Your Way

- Braces the best of Linux and open technology, giving you the freedom to leverage skills, tools, and apps widely embraced by the industry.
- Enables you to pick your hypervisor, run time, languages, management, database, and analytics.
- Lets you run all the open source software that modern IT loves - Ubuntu, Red Hat, SUSE, Ruby, Java(TM), Node.js, Chef, Docker, Mongo, PostgreSQL, Spark, plus others - on a system that delivers industry-leading strengths of enterprise computing.
- Provides a rock-solid foundation for your on-premises cloud strategy.

Linux Without Limits

- Delivers virtualization capabilities that can result in a less complex, more economical and flexible Linux infrastructure compared to x86 servers.
- Delivers high availability through component reliability, redundancy, and features that assist in providing fault avoidance and tolerance while permitting concurrent maintenance and repair.
- Built on the innovation of IBM Systems® RAIM memory technology that has been responsible for zero visible memory failures in the last 5 years, mitigating a known problem on competitive x86 platforms.
- Delivers Secure Sockets Layer (SSL) transactions.
- Support the dedicated adapter card for crypto acceleration, Crypto Express5, for secure co-processing and bulk encryption with clear key and protected key support, helping protect sensitive data from inadvertent disclosure.
- Supports the cryptogrpahy ideal for resource-constrained environments such as mobile phones and smart cards while meeting stringent digital signature requirements with support for PKCS #11 standards. Additional standards for the banking and finance industry, such as ANSI, ISO, and EMV, are also supported.
- Supports IBM Resiliency Analytics for LinuxONE (orderable as IBM zAware) for near-real-time diagnostics in the Linux environment.
- The IBM GDPS® Virtual Appliance can deliver multiplexing capability for IBM LinuxONE.
- LinuxONE offers customers a solution that is:
  - Open: Choose the tools and applications you love
  - Flexible: Meet demand with virtually limitless scale
  - Simple: Fewer servers, less complexity lower cost
  - Efficient: Get unparalleled utilization and speed
  - Trustworthy: Secure services and capabilities that never stop
  - Key enhancements
    - Build and deploy engaging mobile applications that integrate with core business capabilities
    - Secure mobile devices, data and enterprise transactions without sacrificing responsiveness
    - Deliver mobile services on an open and highly responsive infrastructure that scales meeting peak in mobile web traffic
    - Accelerate adoption using best practices and services.

Linux Without Risks

- Delivers high availability through component reliability, redundancy, and features that assist in providing fault avoidance and tolerance while permitting concurrent maintenance and repair.
- Built on the innovation of IBM Systems® RAIM memory technology that has been responsible for zero visible memory failures in the last 5 years, mitigating a known problem on competitive x86 platforms.
- Delivers Secure Sockets Layer (SSL) transactions.
- Support the dedicated adapter card for crypto acceleration, Crypto Express5, for secure co-processing and bulk encryption with clear key and protected key support, helping protect sensitive data from inadvertent disclosure.
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