

discover
the open
alternative:
Escala
linux
solutions



Leading performance and cost optimized for Big Data and Analytics workloads

Atos and Linux advantages:

- Market leading memory bandwidth
- Slim packaging with high internal disk expandability
- Ideal for Big Data as a Hadoop node thanks to internal disk expandability and powerful SMT8 cores
- Ideal for Spark, OpenSource databases (PostgreSQL, MariaDB..) and Business applications (SAP)

The constant economic pressure to reduce IT infrastructure costs while increasing flexibility through dynamic, on-demand provisioning has driven many organizations towards standardization onto x86 hardware and the Linux operating system.

As price/performance has become the key measure for infrastructure purchases, TCO calculations are mainly conducted in isolated domains such as hardware, OS/virtualization and support costs. However, bigger picture aspects such as the cost impact on ISV licenses, platform reliability, OS vulnerability and VM isolation are often not factored in.

Escala delivers key advantages which can have a significant overall TCO impact such as a leading performance per core, the best reliability in the industry, superior security isolation and virtualization efficiency.

Escala Mission Critical Linux servers

Escala Mission Critical Linux servers are designed for commercial workloads requiring performance, reliability and scalability. The Escala L1-800 and L3-800 servers use the latest Power8 processor technology delivering unprecedented performance, scalability, reliability, and manageability, for demanding commercial workloads. They are optimized to help deliver new solutions and services faster, and with higher quality. They are also optimized for big data and analytics, and provide the ideal foundation for scale-out data and cloud environments in a compact 2U package. They deliver superior throughput compared to x86-based offerings for similar workloads.

Escala OpenPower-based Linux servers

Escala OpenPower-based Linux servers are optimized for Big Data and cloud workloads. The Escala L1-OP80 and L3-OP80 Power8 servers are built for most OpenSource workloads, as well as OpenSource databases, due to their cost efficiency and expandability. They are designed to run either Hadoop environments thanks to larger internal storage capacity and powerful SMT8 cores, or in-memory analytics such as Spark, as well as innovative solutions from the OpenPower partner ecosystem such as CAPI. They are also ideal for hyperscale ISP environments where high-efficiency and cost-effectiveness are the most important features.

 OpenPOWER™

 POWER8

 Spark

 hadoop

Standardize on Linux

Escala supports industry standard Linux distributions from RedHat, Suse and Ubuntu along with applications optimized for emerging business challenges such as Big Data & analytics, mobile and Java platforms. The support for little endian Linux ensures easy portability for thousands of Open Source applications. Leading ISV's such as SAP also support the Linux on Power platform.

OpenStack Cloud enabling / automation

The PowerVC management solution turns Escala VMs, storage and virtual networks into a OpenStack based IAAS cloud solution. PowerVC groups multiple physical servers into managed pools, greatly simplifying the creation and deployment of AIX and Linux VMs. Features like Snapshots and cloning reduce the average deployment time of applications from several hours to just a few minutes. Automation can be integrated or triggered by popular Open Source tools such as Chef or Puppet.



OUR OFFERS	L1-800	L3-800	L1-OP80	L3-OP80
	Mission Critical: Best for small Databases	Mission Critical: Tailored for In Memory Big Data workloads (**)	Internal Storage capacity: Ideal as a Hadoop node	Cost & Performance: Multi-purpose Open- Source workloads
	2U 1socket	2U 2socket	2U 1socket	2U 2socket
	Power8	Power8	Power8	Power8
	1 socket	2 sockets	1 socket	2 sockets
	One socket popula- ted	Two sockets populated	One socket populated	Two sockets populated
	10 cores @ 3.4 GHz 12 cores @ 3.0 GHz	20 cores @ 3.4 GHz 24 cores @ 3.0 GHz 16 cores @ 4.15 GHz	8 cores @ 3.32 GHz 10 cores @ 2.92 GHz	16 cores @ 3.324 GHz 20 cores @ 2.92 GHz
	Up to 512 GB Me- mory	Up to 1 TB Memory	Up to 1 TB Memory	Up to 1 TB Memory
	6 PCI Gen3 LP hot- plug/ up to 10 with 1/2 I/O Drawer	9 PCI Gen3 LP hotplug/ up to 17 with 1 I/O Drawer	4 PCI Gen3 slots (3 PCIe x8 + 1 PCIe x16)	5 PCI Gen3 slots (2 PCIe x8 + 3 PCIe x16)
	Up to 12 SFF disk drives. 21.6TB Max with 12x1,8TB disks	Up to 12 SFF disk drives. 21.6TB Max with 12x1,8TB disks	Up to 14 disk drives. 84TB max with 14x6TB disks	Up to 2 SFF disk drives. 2TB max with 2x1TB disk
	Hypervisor: Power- VM PowerLinux edition or PowerKVM (optional)	Hypervisor: PowerVM PowerLinux edition or PowerKVM (optional)	Hypervisor: PowerKVM 3.1 edition (optional)	Hypervisor: PowerKVM 3.1 edition (optional)
Selling Price	Escala L1-800 based on 10 core @3.42GHz processor Starting at € 7 990 (*)	Escala L3-800 based on 20 (2 x 10) core @ 3.42GHz Starting at € 8 990 (*)	Escala L1-OP80 based on 8 core @ 3.32GHz processor Starting at € 6 100 (*)	Escala L3-OP80 based on 16 (2 x 8) core @ 3.325GHz processor Starting at € 10 199 (*)

(*) Price is provided for a basic configuration described above, without Operating System nor hypervisor, available for additional charge.

Price does not includes local taxes nor delivery fees.

(**) SAP HANA process certification - in progress

A comprehensive ecosystem for an end-to-end approach

Thanks to Atos' experience as a manufacturer and an outsourcer, we combine the needed resources and know-how to assist our customers in answering their needs with Atos' best AIX and Linux experts and leading added-value solutions.

Support and Maintenance

ATOS provides leading support and maintenance services to currently more than 600 AIX/Linux Power customers worldwide. With nearly 25 years of AIX/Power experience on Escala infrastructures, ATOS delivers highest levels of SLA on Escala infrastructures and is proud of its 93% satisfaction rate from European customers.

Competence Centers

AIX and Linux Experts from Atos Competence Centers help organizations, software vendors and system integrators to design and implement solutions and infrastructures. They are dedicated to helping customers optimize and improve the performance of their infrastructures in many areas, including databases, analytics, Big Data, ERP, consolidation and cloud computing. The Atos Competence Centers provide a range of services covering the entire life-cycle of your architecture, such as:

- ▶ performance optimization
- ▶ sizing, benchmarking and prototyping
- ▶ HA solutions
- ▶ DB performance optimization & tuning
- ▶ validation of applications from ISVs
- ▶ architecture consulting

Why Atos?

Atos is the Number 1 European provider (Number 3 worldwide) of managed infrastructure services. Atos is rated by analysts as the 'Leader in the Data Center outsourcing services' for the 3rd year in a row. We develop and deliver the most cost-effective and suitable solutions leveraging market-leading providers to manage, optimize and transform data centers and infrastructure. We have early insight on new technologies, enabling us to develop new and innovative technical solutions.

Our strong global footprint, and industry heritage gives us the understanding and the flexibility to easily adapt to our clients' culture whatever industry they work in and wherever they are in the world.

Atos