



Processor Value Unit Table

Processor Value Unit License Entitlement Requirements

A Processor Value Unit is a pricing charge metric for license entitlements which is based upon the quantity of processor cores used for a given product. A processor (commonly called a 'core') is a functional unit within a computing device that interprets and executes instructions. A processor consists of at least an instruction control unit and one or more arithmetic and/or logic unit. With multi-core technology, each core is considered a processor. Not all processors require the same number of Processor Value Unit entitlements. To determine the number of Processor Value Unit entitlements required for your specific implementation of the given product, refer to the Processor Value Unit Table below. The Processor Value Unit entitlements of a given product cannot be exchanged, interchanged, or aggregated with Processor Value Unit entitlements of another product.

With full capacity licensing, a proof of entitlement (POE) must be obtained for the appropriate number of Processor Value Unit entitlements based on all processors on the server available to the product or a component of the product for your implementation.

For products eligible for sub-capacity licensing, a proof of entitlement (POE) must be obtained for the appropriate number of Processor Value Unit entitlements based on all processors on the partition available to the product or a component of the product for your implementation.

Sub-capacity Licensing available in Passport Advantage.

Essentials

- [IBM announces Processor Value Units](#)
- [Processor Value Unit Announcement letters](#)
- [Processor Value Unit terminology](#)
What does it all mean?
- [Resources for IBM customers](#)
Presentation, FAQs and more

Processor Value Unit Table – Entitlement View

Processor Families			Processor Value Units Per Core
Processor Vendor	Processor Brand	Processor or Chip Type	
All	All	Single-core	100
IBM®	POWER5™	Dual-core	
IBM®	System z™	One core (IFL or engine)	
HP	PA-RISC	Dual-core	
Intel®	Itanium®	Dual-core	
Sun	UltraSPARC IV	Dual-core	
Other	Other	One core	
IBM®	POWER5™ QCM	Dual-core	50
IBM®	PowerPC®	Dual-core	
AMD	Opteron	Dual-core	
Intel®	Xeon®	Dual-core	
Sun	UltraSPARC T1	Quad-core, hexa-core, or octi-core	30

Processor Value Unit Table – Architecture View

Processor Architecture	Processor Families			Processor Value Units Per Core
	Processor Vendor	Processor Brand	Processor or Chip Type	
All single core	All	All	Single-core	100
X86 multi-core	AMD	Opteron	Dual-core	50
	Intel®	Xeon®	Dual-core	50
RISC Multi-core	IBM®	POWER5™	Dual-core	100
	HP	PA-RISC	Dual-core	100
	Sun	UltraSPARC IV	Dual-core	100
	IBM®	PowerPC®	Dual-core	50
	IBM®	POWER5™ QCM	Dual-core	50
	Sun	UltraSPARC T1	Quad-core, hexa-core, or octi-core	30
IA64 (Itanium®) multi-core	Intel®	Itanium®	Dual-core	100
System z™	IBM®	System z™	One core (IFL or engine)	100
Other	Other	Other	One core	100

Processor Value Unit Table notes

- All other multi-core processor families not specifically listed in the table above require 100 Processor Value Unit license entitlements per processor core.
- Calculator assistance tools, including the [processor Value Unit Calculator](#), are available to assist customers in identifying Processor Value Unit license entitlements required for their hardware environment.
- In this table, a processor family represents each unique combination of processor vendor, brand, and type.
- In this table, a processor architecture is a design which uses a common instruction set. The major processor architectures in the distributed middleware server marketplace are listed in table above
- In this table, a processor brand is a group of processors which have the same or similar processor design and performance characteristics, but may vary in clock speed or cache.
- In this table, a processor or chip type indicates the number of processor cores on a single chip.

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