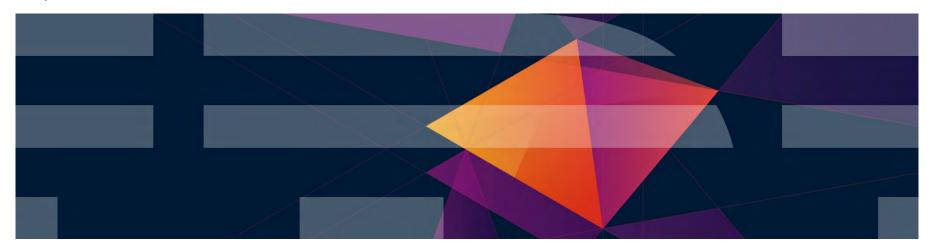


The Language of z

Diego Bessone

September 2015





The Language of z

Once you have completed this module, you should be able to:

- Illustrate how and when to correctly use and incorporate the IBM z Systems "family" and "product" line naming conventions and terminology usage
- Use proper language to convey mainframe's evolutionary path and modern capabilities
- Adhere to IBM standards and guidelines
- Participate and be a part of the z Systems Social Conversation



Table of Contents



- z Systems Naming Strategy & Direction
- Meaningless MIPS?
- Keeping the mainframe language current
- Naming guidelines
- Social chat
- Slogans & Taglines

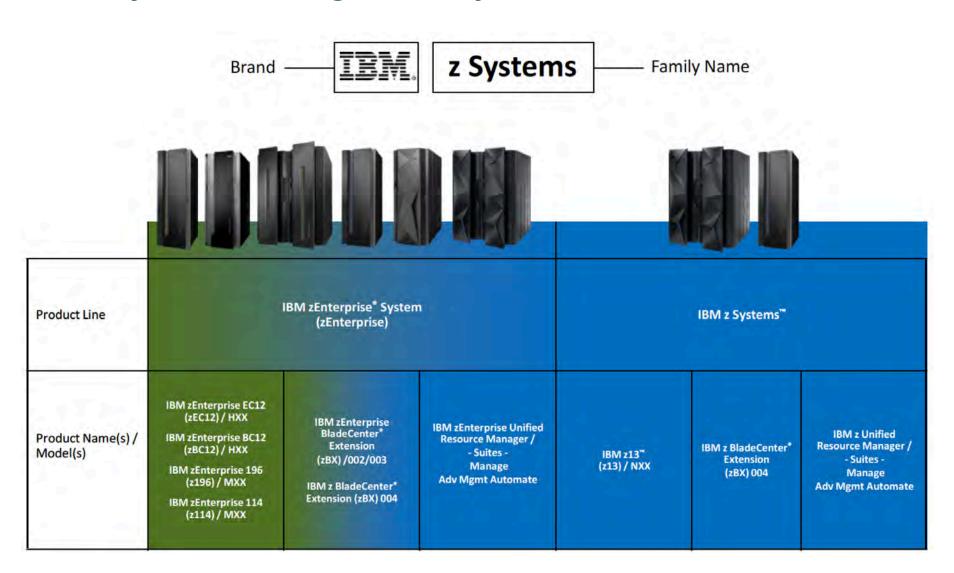


IBM z Systems Naming Hierarchy

z Systems **Family Name** Brand **Product Line** IBM S/390° IBM eServer™ zSeries® IBM System z9° IBM System z10° IBM eServer zSeries IBM System z9 IBM System z10 990 / XXX **Enterprise Class Enterprise Class** IBM eServerzSeries 890 Product Name(s) / Model(s) (29 EC) / SXX (z10 EC) / EXX 9672 / RX1 to /XXX IBM eServerzSeries 900 XX7 IBM System z9 IBM System z10 /XXX **Business Class Business Class** IBM eServerzSeries 800 (z9 BC) / XXX (z10 BC) / E10 /XXX



IBM z Systems Naming Hierarchy





z Systems Naming

The **IBM z Systems** family name is replacing IBM System z and will encompass every IBM Mainframe from S/360 through the new IBM z13 and any future systems. **The term "System z" should not be used in any materials after January 14, 2015.**

When referring to the z Systems environment, the terms z Systems environment, z Systems platform, z Systems family, and z Systems technology are not necessary but are permissible when required.

When referring to an entire mainframe install base or a set of mainframe products, use of IBM z Systems is appropriate. Using "IBM mainframe" or "the mainframe" is also acceptable.

Using the new IBM mainframe system naming conventions requires careful adherence to IBM standards and guidelines, as well as an understanding of the product family, the specific product name(s) and the messaging supporting them. Using consistent terminology and messaging around the IBM z Systems family and the new IBM z13™ is essential for IBM success and acceptance in the marketplace.



z Systems Naming



When referring to an entire mainframe install base or a set of mainframe products, use of IBM z Systems is appropriate. Using "IBM mainframe" or "the mainframe" is also acceptable.









z Systems Naming – IBM z13

Brand Name: IBM Product Class: IBM mainframe

Family Name: IBM z Systems[™] Family Short Name: z Systems

Product Names (Short Names): IBM z13™ (z13)

Models: N30, N63, N96, NC9, NE1

Machine Type: 2964

Workload Optimizing Attachments: IBM z BladeCenter® Extension (zBX) Model 004

IBM DB2® Analytics Accelerator for z/OS®

Management Firmware IBM z Unified Resource Manager

(ensemble management): (Unified Resource Manager, zManager)

zBX Supported Blades: Select IBM POWER7® blade servers

Select IBM System x[®] blade servers

zBX Supported Optimizers: IBM WebSphere® DataPower® Integration

Appliance XI50 for zEnterprise (DataPower XI50z)

It is everyone's responsibility to protect and maintain these valuable trademark assets and build recognition for these new products and the future of the IBM mainframe platform. These standards apply to all IBM employees, contractors, agencies and Business Partners for both internal and external uses.

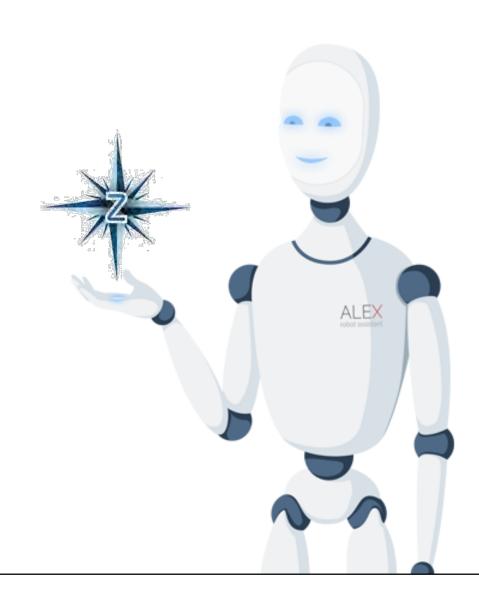


MIPS

is an acronym for

Meaningless Indication of Processor Speed

Ç





One of the most misused terms in IT has to be **MIPS**. It's supposed to stand for "Millions of Instructions Per Second"

As commonly used today, MIPS has become a RELATIVE indicator of AVERAGE processor CAPACITY

Unfortunately, no one number describes capacity. Processor speed varies depending on many factors, including (but not restricted to):

- Workload mix
- Memory/cache sizes
- I/O access density
- Software levels (OS and application subsystems)
- Hardware changes
- Partitioning

IBM offers the Large Systems Performance Reference (LSPR). **LSPR** data consists of a variety of workloads, each representing a type of production environment. LSPR results are based on measurements and analysis across the majority of contemporary System 370/390 and z/Architecture processors, both IBM and IBM compatible.



Historically (pre-zEnterprise systems), LSPR workload capacity curves have had application names or have been identified by a software characteristic (CICS, IMS, OLTP-P, CB-L, LoIO-mix and TI-mix). However, capacity performance has always been more closely associated with how a workload uses and interacts with a particular processor hardware design.

Workload capacity performance is sensitive to three major factors:

- Instruction path length
- Instruction complexity
- Memory hierarchy
- Thus with the introduction of IBM System zEnterprise the LSPR introduces three new workload capacity categories which replace all prior primitives and mixes :
 - LOW RNI (Relative Nest Intensity)
 - AVERAGE RNI
 - HIGH RNI



While MIPS tables may be useful for rough processor positioning, they <u>should not</u> be used for capacity planning purposes. Single-number processor capacity tables are inherently prone to error because they are not sensitive to the type of work being processed or to the LPAR configuration of the processor.



Sinet MIPS ratings for each mainframe originate from the LSPR based on specific z/OS versions.

z9 2094-701 is the base in z/OS v2r1 with a "capacity factor" of 560

multi-image

single image

/												
Model	z/OS V2R1 2094- 701 (560) MIPS	z/OS V2R1 2094- 701 (593) MIPS SI	z/OS V1R13 2094- 701 (560) MIPS MI	z/OS V1R13 2094- 701 (593) MIPS SI	z/OS V1R11 2094- 701 (560) MIRS	z/OS V1R11 2094- 701 (593) MIRS SI	z/OS V1R9 2094- 701 (570) MIPS MI	z/OS V1R9 2094- 701 (604) MIPS SI	z/OS V1R8 2094- 701 (568) MIPS MI	z/OS V1R8 2094- 701 (602) MIPS SI	z/OS V1R6 2084- 301 (429) MIPS MI	z/OS V1R6 2084- 301 (450) MIPS SI
z13	x	x		[:3]								
zBC12/zEC12	x	x	x	x			}		- 3		-	
z114/z196	x	x	X	x	x	х	-					
z10 BC/EC	x	x	x	х	x	х	х	x	x	x		
z9 BC/EC	x	Х	Х	х	х	х	Х	х	x	Х		
zSeries 890					X	X	X	Х	X	X	X	Х



Keeping the mainframe language current





Noun

- 1. An inheritance; property that may be inherited.
- 2. A tradition; something that can be passed down from preceding generations.
- 3. A birthright; the status acquired by birth, especially of but not exclusive to the firstborn.
- 4. (attributive) Having a certain background, such as growing up with a second language. The university requires heritage Spanish students to enroll in a specially designed Spanish program not available to non-heritage students.





Keeping the mainframe language current





Naming Guidelines

Don't capitalize words or letters unnecessarily

BMz Systems

BMZ13



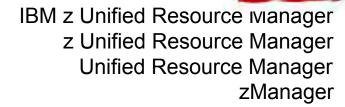
Naming Guidelines

Don't use unapproved short names or acronyms





International Doctors in Alcoholics Anonymous IBM DB2 Analytics Accelerator for z/OS







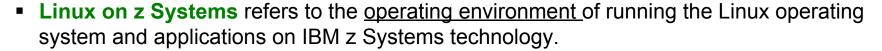
IBM zAware



Naming Guidelines

Linux on z Systems

- Port of the open source GNU / Linux[®] operating system to IBM z Systems[™] architecture
- Pure Linux it's an ASCII environment like all other Linux too
- Conform to the Linux Standard Base (LSB)
- Not a unique version of Linux
 - No changes to the standard kernel
- NO emulation natively exploits z Systems hardware
 - Runs native in a LPAR or virtualized under z/VM®
- No changes regarding Look & Feel



 Linux for z Systems refers to the <u>Linux distributions</u> available from Linux distributors that run on IBM z Systems technology.





PINTEREST

SOCIAL SITE THAT IS ALL ABOUT DISCOVERY

LARGEST OPPORTUNITIES



USERS ARE:



17% MALE

83% FEMALE



P MILLION ACTIVE USER



TWITTER

SOCIAL SITE THAT LIMITS EACH POST TO 140 CHARACTERS

LARGEST



BUT SPREADING SLOWLY AND STEADILY

5,700 TWEETS
HAPPEN EVERY SECOND





FACEBOOK

SOCIAL SHARING
SITE THAT HAS

1+BILLION
USERS WORLDWIDE

LARGESTOPPORTUNITIES



COMMUNICATING WITH CONSUMERS IN A NON-OBTRUSIVE WAY

USERS SHARE

1 MILLION LINKS
EVERY 20 MINUTES



1+ BILLION ACTIVE USERS



INSTAGRAM

SOCIAL SHARING SITE ALL AROUND PICTURES AND NOW 15 SECOND

MANY BRANDS ARE PARTICIPATING THROUGH THE USE OF



AND POSTING

PICTURES CONSUMERS CAN RELATE TO

MOST FOLLOWED BRAND IS





200 MILLION ACTIVE USERS



GOOGLE+



NOT AS MANY
BRANDS
ACTIVE,
BUT THE ONES THAT ARE
TEND TO BE A
GOOD FIT WITH A

GREAT FOLLOWING

TO BUILD CIRCLES

25-35 YEAR OLDS





LINKEDIN

BUSINESS ORIENTED SOCIAL NETWORKING SITE

BRANDS THAT ARE PARTICIPATING ARE CORPORATE BRANDS GIVING POTENTIAL AND CURRENT ASSOCIATES A PLACE TO NETWORK SCONNECT







300 MILLION USERS



#IBMz #Mainframe

z Systems Advocates





IBM z Systems

IBM Mainframe Insights





IBM z Systems

IBM z Systems





IBM Mainframe50





Slogans & Taglines

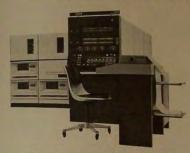


ONE SYSTEM WHEFFULLERY APPLICATION NEED

introduces all-monolithic technology, memory and logic. And a new computer that makes the most of it:

System/370 Model 145.

You might call it a new era of computers, or a new generation, or a technological breakthrough. But what really counts is what it means to you.



The hottest concept in computer technology

System/370 Model 145 is the first generalpurpose business computer with 100% monolithic circuitry. Including main storage.

The use of this technology with its very high circuit density cuts main storage space in half.

Monolithic technology also speeds up the computing process. And improves reliability as well.

New advancements in speed

Model 145 is 3 to 5 times faster than System/360 Model 40. 5 to 11 times faster than System/360 Model 30.

And that's another reason it's the natural system to move up to if you're a Model 30 or 40 user.

Features, features, features

Like the other computers in the System/370 line, Model 145 is newly engineered inside and out. It's loaded with features.

Like four selector channels. So you can run more jobs and get more work done in the same time.

Like reloadable control storage. So you can have features like block multiplexing, 1400 and 7010

compatibility, and DOS emulation at no extra charge.

Like our new low-cost, high-speed disk facility (the 2319) that holds 87 million characters. And attaches directly to the system without the need for a separate control unit.

System/370: IBM's computer line for the '70s

With System/370, whatever you've got to get out gets out a lot faster.

With any model, you can get our new highspeed printer (the 3211). It fires out numbers and letters at the rate of 2000 lines a minute. Faster than you can blink.

With any model, you can also get our new highspeed disk facility (the 3330). It can hold up to 3½ times more information than our current files. 800 million characters in all. And it can send it into your computer up to 2½ times faster. At a rate of 806 thousand characters per second.

We think it's the best file around.

Revolutionary new product line

But perhaps the most amazing thing of all is that we've been able to make System/370 this advanced while still making it compatible with System/360.

And you also know with IBM you have the support of the most complete program library in the world. As well as the support of our Systems Engineering and Education services.

We've used a lot of words to describe System, 370 Model 145. Like 100% monolithic circuitry. Like faster speeds. Increased performance. New features. Greater reliability.

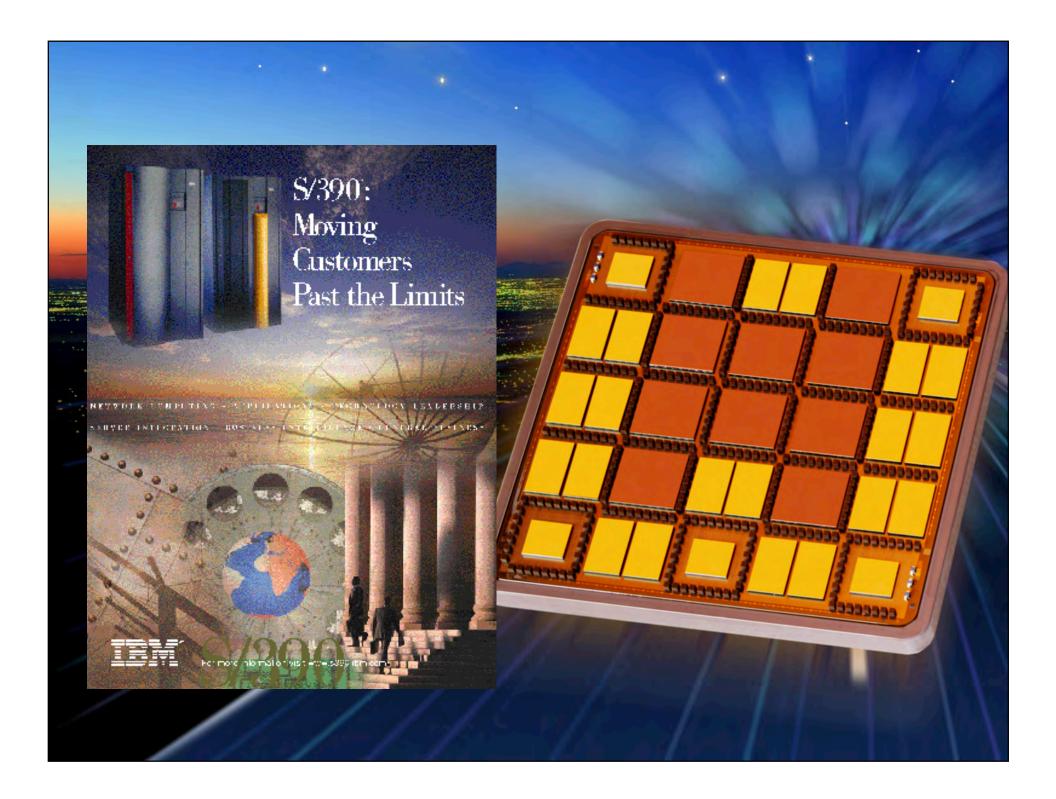
These words aren't empty chatter.

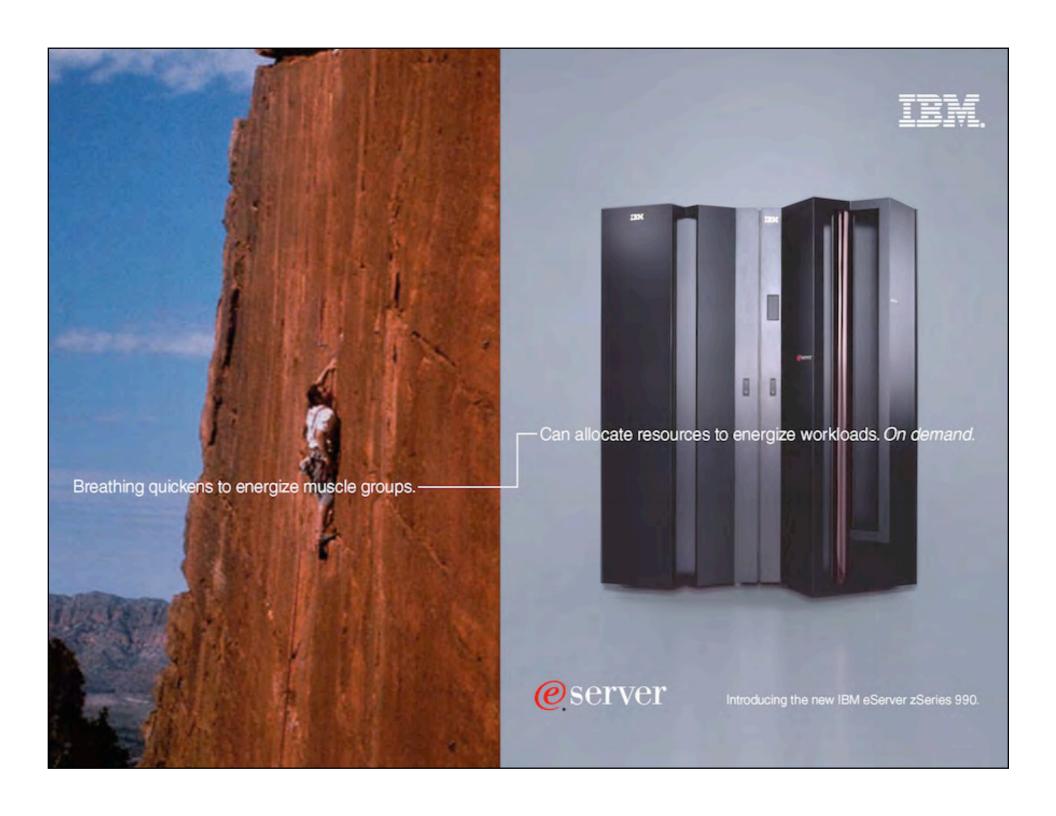
Everything we've said is backed up by hard facts.

Our products change. But our philosophy doesn't. We want you to get the most out of your computer system.

System/370. The performance computers for the seventies.

IBM.







The Future Runs on System z







Journey of Brand Transformation and Repositioning

IBM Mainframe50

IBM z13

Future Forward



IBM **z**13

"Make the **Extraordinary Possible**"

Industry Impact

Engines of Progress

Millennials (MTM WC / MOOCS)

Research Projects

Enterprise Cloud System

Mobile Pricing

Hadoop on z

z/OS Connect

"Built for Mobile App Economy"

New Technology (SMT, 10TB, KVM, SIMD, etc.)

> New SW (DB2 Blu, Cloud Manager)

zCAP and Country Multiplex Pricing

> Apple + IBM Enterprise Ready Apps

In-Transaction Analytics

Hybrid Cloud Connect

BlueMix for z

8M MIPS of Linux

Smarter Cities

"The New Possible"

The Next Generation of Open z

Linux: KVM, Ecosystem

Internet of Things

Business Process SaaS Optimization

Smarter Cities Expansion

IT Analytics

OpenCrypto

MTM 2016 World Championship, US Department of Education

Technology Economics

Emerging Economies



















Kenya Powe













Key learning points

- Using consistent terminology and messaging around the IBM z Systems family and the new IBM z13™ is essential for IBM success and acceptance in the marketplace.
- IBM z Systems is now the official "family" name that legally covers the IBM mainframe class of products and associated offerings.
- When referring to an entire mainframe install base or a set of mainframe products, use of IBM z Systems is appropriate. Using "IBM mainframe" or "the mainframe" is also acceptable.
- IBM's mainframes have always enabled businesses to transform industries and shape the way we work and live.





Diego Bessone MAINFRAMER



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