Verbreitung von z/OS

- 95% der weltweit größten 2000 Unternehmen setzen z/OS als ihren zentralen Server ein.
- Zwischen 65 und 70 % aller geschäftsrelevanten Daten werden im EBCDIC Format auf Mainframe Rechnern gespeichert.
- 60% aller geschäftsrelevanten Daten, auf die mittels des World Wide Web zugegriffen werden kann, sind in Mainframe Datenbanken gespeichert, hauptsächlich DB2, IMS und VSAM Datenbanken.
- Die Anzahl der weltweit pro Sekunde ausgeführten CICS Transaktionen liegt in der gleichen Größenordnung wie die Anzahl der Zugriffe auf das WWW.
- Von allen Servern hat System z den höchsten Marktanteil und die höchste Wachstumsrate.

IBM Redbooks Series: "Java Application Development for CICS: Base Services and CORBA Client Support". IBM Form Nr. SG24-5275-00, April 1999. Ray Jones, IBM vice president Server Solutions, at Northern Illinois University, Workshop, July 11, 2000

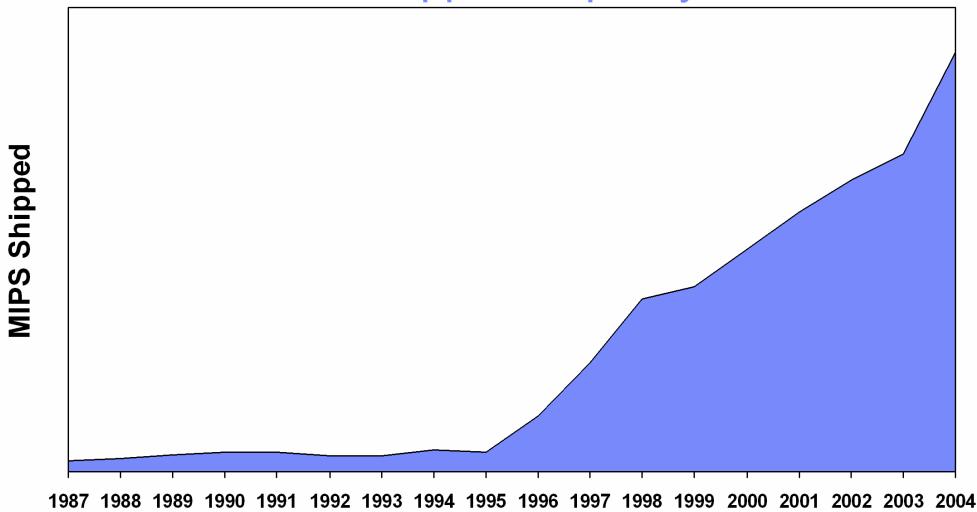


Statement der PricewaterhouseCoopers Aktiengesellschaft Wirtschaftsprüfungsgesellschaft, Frankfurt am Main

Eine Reihe unserer großen und größten Mandanten aus unterschiedlichen Branchen setzen derzeit Mainframes und vor allem bzw. hauptsächlich das Betriebssystem z/OS ein. Sie werden dies aus heutiger Sicht auch zukünftig weiter tun. Großrechner insbesondere Rechner mit dem Betriebssystem z/OS werden typischerweise dann eingesetzt, wenn folgende Aspekte relevant sind:

- Hoch verfügbare Systemumgebung
- Hoher Sicherheitsstandard
- Umgebungen mit 5.000 200.000 Benutzern
- Nachvollziehbarkeit wesentlicher Systemereignisse

IBM S/390 / zSeries Shipped Capacity Worldwide



Source: IBM Market Research

MIPS = Million Instructions per Second

	Compaq	SUN	HP	IBM
	Proliant	Exxxx	HP9000	S/390
	W2000	Solaris	HPUX	OS/390
Processor Technology Systems Performance Clustering Performance Single Systems Availability Multiple Syst. Availability Workload Management Partitioning Systems Management Totals	7 30 2 20 20 5 4 28	6 50 4 30 24 20 28 24 186	10 50 4 30 32 30 16 28	10 50 10 50 40 50 40 40

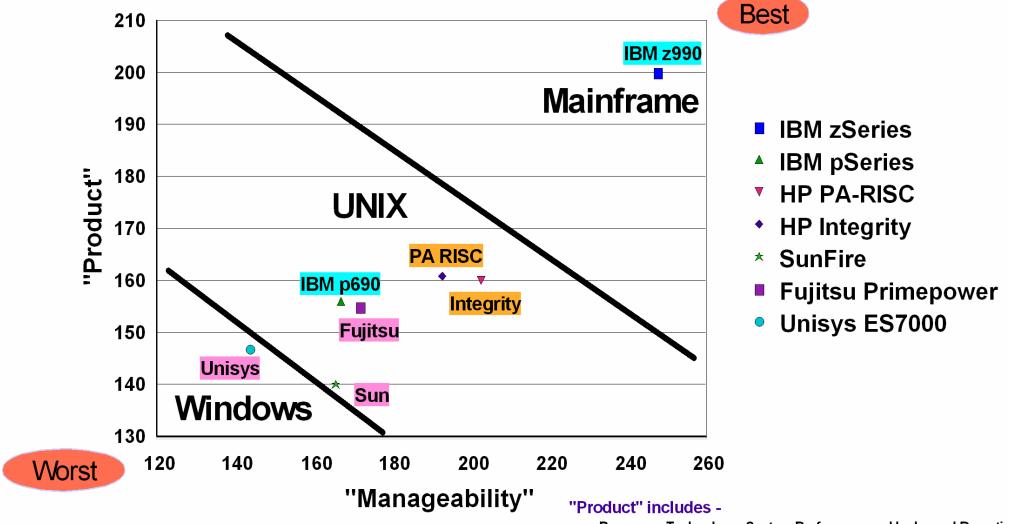
Application Server Evaluation Model, Technology Comparision
Gartner Group, February 2001
Hohe Punktzahl ist besser

	BU	LL	FUJI	TSU		HP			IBM		SUN	UNI	SYS
Product		NovaScale	Primepower	BS2000	NonStop	HP9000	Integrity	zSeries	pSeries [®]	iSeries [®]	Sunfire	Clearpath	ES7000
Processor Technology	8	9	8	9	6	8	9	10	9	9	7	9	9
System Performance	9	7	9	9	9	8	9	10	10	9	8	9	8
Unplanned Downtime (Single)	9	7	8	9	10	8	8	10	8	9	8	9	8
Unplanned Downtime (Clustered)	9	6	8	9	10	8	8	10	8	8	7	9	7
Disaster Tolerance/Recovery	9	4	6	9	10	8	7	10	5	8	5	9	6
Totals	44	33	39	45	45	40	41	50	40	43	35	45	38

Gartner Application Server Evaluation Model (ASEM), October 2004

	BU	ILL	FUJI	TSU		HP			IBM		SUN	UNI	SYS
Operations Management	ecos	NovaScale	Primepower	BS2000	NonStop	HP9000	Integrity	zSeries	pSeries	iSeries	Sunfire	Clearpath	ES7000
Planned Downtime	9	5	9	9	10	8	8	10	7	7	9	10	6
Partitioning	9	4	7	8	-∥+ 10	7	5	10	8	9	6	10	7
Capacity on Demand	6	2	6	7	3	8	8	8	6	7	5	8	2
OS Manageability	9	6	7	9	8	8	8	9	7	8	7	9	5
Server Management Tools	7	6	5	7	9	8	8	10	5	8	6	7	7
Workload Management	5	3	5	7	7	8	8	10	5	9	5	10	6
Totals	45	26	39	47	47	47	45 (57	38	48	38	54	33

Gartner Application Server Evaluation Model (ASEM), October 2004



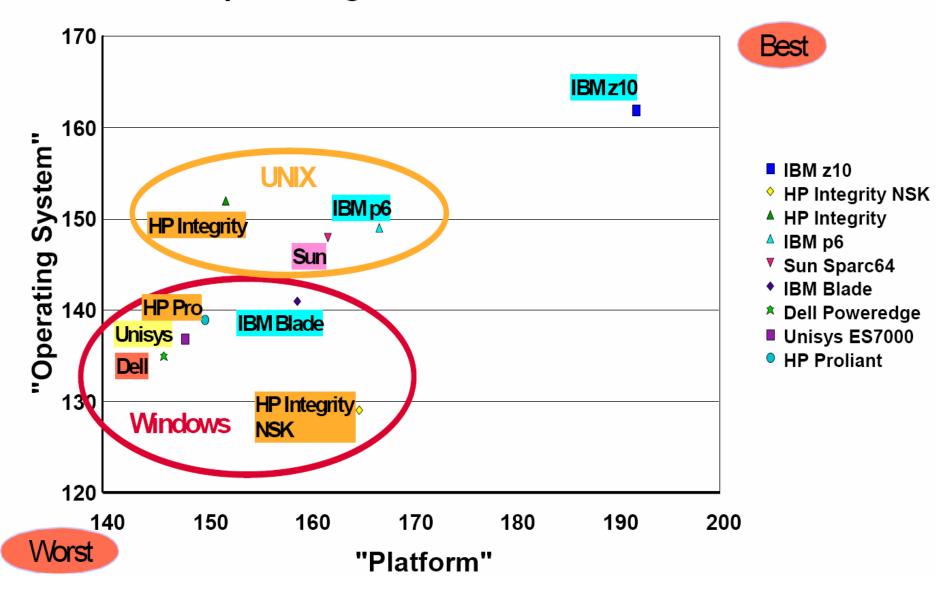
Source: Gartner, ASEM Enterprise Server Update 2004, 22nd October 2004

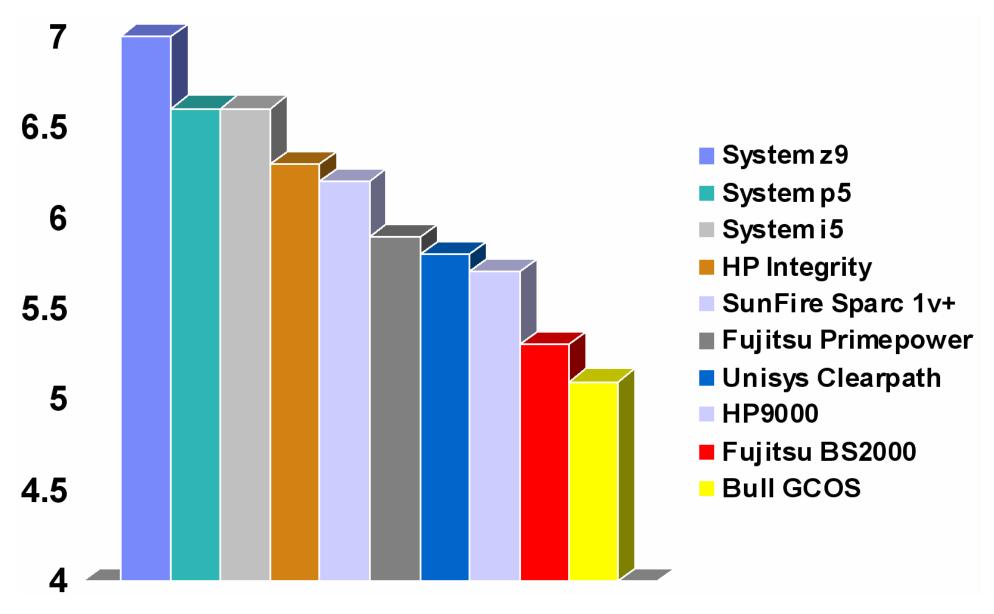
Processor Technology, System Performance, Unplanned Downtime (Single), Unplanned Downtime (Clustered), Disaster Tolerance/Recovery "Manageability" includes -

Planned Downtime, Partitioning, Capacity on Demand, Workload Management, OS Manageability, Server Management Tools

Gartner's platform positioning 4Q08 – Platform Summary

Platform positioning - Selected Platforms

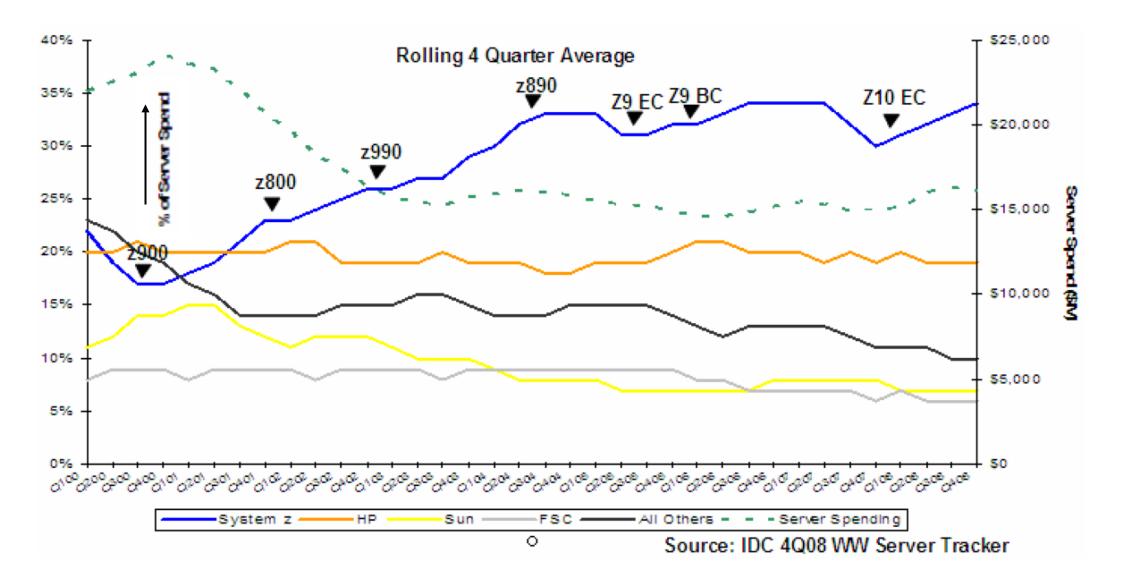




Gartner's platform positioning - 2Q06, overall Rating

	FORM FACTOR	PLATFORM & RELATED TOOLS	PLATFORM SERVICES	OS & TOOLS BEST RESULT	OS SERVICES BEST RESULT	Stack Vision Best Result	Stack Execution Best Result	CORPORATE/ SALES & MARKETING	LOCAL/ GO-TO-MARKET	AVERAGE SCORE
Platform										
1 IBM SYSTEM z9	F	7.8	8.9	8.9	7.2	4.2	4.0	8.1	7.1	7.0
2 IBM SYSTEM p5	F	7.5	7.2	7.7	7.2	4.3	3.8	8.1	7.1	6.6
3 IBM SYSTEM i5	F	7.0	7.3	8.0	7.2	4.5	3.7	8.1	7.1	6.6
4 HP INTEGRITY	F	6.3	7.6	7.4	6.8	4.2	3.3	8.0	7.3	6.3
5 SUN FIRE U/SPARC IV+	F	6.6	6.3	7.7	6.8	4.2	3.5	7.7	6.9	6.2
6 FUJITSU PRIMEPOWER	F	5.9	6.0	7.7	6.2	4.0	3.5	7.0	6.7	5.9
7 UNISYS CLEARPATH	F	4.5	7.7	8.1	7.1	3.3	3.0	7.1	5.7	5.8
8 HP 9000	F	4.1	5.7	7.0	6.6	3.7	3.0	8.0	7.3	5.7
9 FUJITSU BS2000	F	3.5	7.1	6.0	6.4	3.0	3.0	7.0	6.7	5.3
10 BULL GCOS	F	3.5	6.2	6.9	6.6	3.0	2.3	6.4	5.6	5.1

Gartner's platform positioning - 2Q06, overall Rating



PLATFORM & TOOLS	PROCESSOR PERFORMANCE	MULTI-CORE CAPABILITY	MULTI-THREAD CAPABILITY	PLATFORM EF (PERFORMA POWER/CO	NCE VS.
	SMP/MPP SCALABILITY	SINGLE SYSTEM AVAILABILITY	OVERALL ARCHITECTURAL VIABILITY	VIABILITY OF CURRENT GENERATION	
PLATFORM SERVICES	PLANNED DOWNTIME	DISASTER TOLERANCE & RECOVERY	HARDWARE PROTECTION AND SECURITY	HARDWARE ELE ISOLATIO	
	VIRTUAL MACHINES (HYPERVISORS LPARS)	WORKLOADIOS	XED WORKLOAD S MANAGEMENT	LAYERED PLATFORM SERVICES	SERVER MANAGEMENT TOOLS
OS & RELATED TOOLS	FAILOVER CLUSTERING	WORKLOAD MANAGEMENT	CAPACITY ON DEMAND	OS MANAGEA	ABILITY
	OS VERTICAL SCALING	SOFTWARE PORTFOLIO	THIRD PARTY TOOLS SUPPORT		
OS SERVICES	INSTALLATION SERVICES	HELPDESK & ESCALATION	REMOTE MANAGEMENT	OS DISTRIE	BUTION
	OS/HW COMBINED TRACK RECORD	EDUCATION SERVICES (L	ENGINEERING EVEL 3) SERVICES	OS MIGRATION SERVICES	HIGH AVAILABILITY SERVICES