



Advanced Technical Support – Washington Systems Center

An Introduction to the IBM Processor Capacity Reference for zSeries

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Agenda

- **What is the IBM Processor Capacity Reference for zSeries (zPCR)**
- **Inputs**
- **Execution considerations**
- **Sample session**
- **Where to get more information**

What is zPCR

- **A Java based PC tool**
- **Provides the capacity relationship of zSeries processors**
 - LSPR workloads determine the capacity ratio
 - Includes impact of LPAR configurations
 - Expected accuracy of + or – 5%
- **The IBM tool to properly size zSeries processor upgrades**

Input to zPCR

- **RMF CPU Activity Report for the installed machine**
 - Machine type and model
 - LPAR definitions
- **RMF Workload Activity Report(s)**
 - Determine the workload mix for each partition
- **Proposed machine**
 - Processor type and model
 - LPAR definitions

Execution Considerations

- **If you are comparing multiple machines, it is critical the analysis be done using the same machine as the reference machine. Otherwise the ratios between the machines will NOT be correct as they are built using a different base machine**
- **The impact of LPAR on the capacity of a processor impacts all machines. As such, you need to use zPCR to determine the capacity of the current machine as well as the proposed machine**

Inputs for Sample Exercise

- **Current machine characteristics**

- 2064-210 (2326 MIPs customer defined)

LPAR name	# LCPs (GP)	Weight	DASD I/O per Consumed MSU	Operating System Version
WSC1	6	500	17	z/OS 1.4
WSC2	3	250	20	z/OS 1.4
WSC3	3	250	18	z/OS 1.6

- **Proposed machine characteristics**

- 2084-307 (A08) with 1 zAAP

LPAR name	# LCPs (GP)	Weight	# LCPs (zAAP)	Operating System Version
WSC1	5	500	NA	z/OS 1.4
WSC2	3	250	NA	z/OS 1.4
WSC3	3	250	1	z/OS 1.6

zPCR - Function Selection [untitled]
 File Customize CPcalculator Help

zPCR
 Capacity Planning for IBM zSeries Processors

Customer / Study Identification

zSeries LSPR Data

LSPR Capacity Ratios

Selected SCP/workload environments

Typical LPAR configurations (focus SCP/workload)

LPAR Capacity Planning

Specify LPAR Host and Detailed LPAR configuration

Select LSPR Table to be Used

zSeries LSPR Data (z990, z900, z890, z800 processors)
 z/OS 1.4 (capacity for versions prior to 1.6) z/OS 1.6 (24-way support)
 Note: If z/OS 1.6 is not exploited, 1.4 data must be used to properly represent capacity.

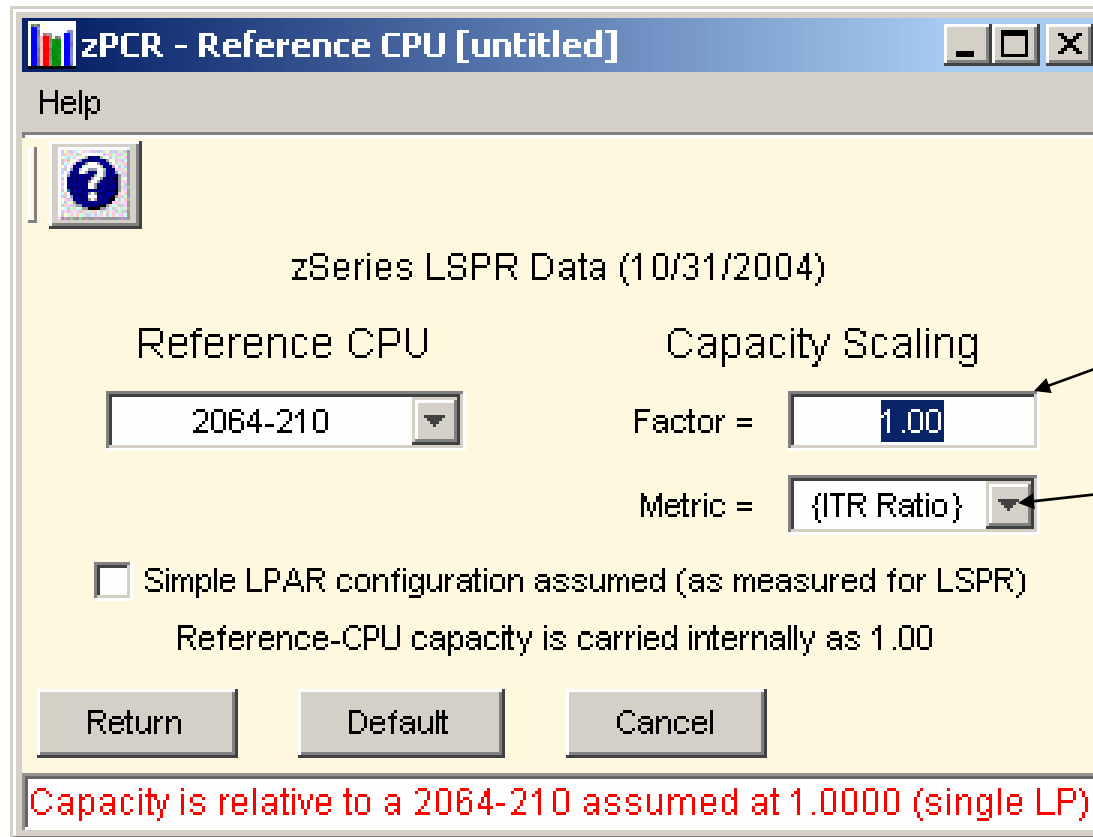
Legacy LSPR Data (z900, z890, z800, and S/390 processors)
 OS/390 V2.10

Combined LSPR Data (limited SCP/workload selection)
 Assumes z/OS 1.4

Select Reference CPU



Capacity is relative to a 2064-210 assumed at 1.0000 (entire CEC)



Set Default
MIP Rating

Metric = MIPS

zPCR - Reference CPU [untitled]

Help

zSeries LSPR Data (10/31/2004)

Reference CPU	Capacity Scaling
2064-210	Factor = 2,326.00
	Metric = MIPS

Simple LPAR configuration assumed (as measured for LSPR)
Reference-CPU capacity is carried internally as 2,326.00 MIPS

Return Default Cancel

Capacity is relative to a 2064-210 assumed at 2,326 MIPS (single LP)


Press Return



zPCR - Function Selection [untitled]
File Customize CPcalculator Help

zPCR
Capacity Planning for IBM zSeries Processors

Customer / Study Identification
[Text Input Field]



zSeries LSPR Data

LSPR Capacity Ratios

Selected SCP/workload environments
Traditional IFL

Typical LPAR configurations (focus SCP/workload)
LPAR Configurations LSPR Info

LPAR Capacity Planning

Specify LPAR Host and Detailed LPAR configuration
Detailed LPAR Capacity Plan

Reference-CPU Workloads

Select LSPR Table to be Used

- zSeries LSPR Data (z990, z900, z890, z800 processors)
 - z/OS 1.4 (capacity for versions prior to 1.6) z/OS 1.6 (24-way support)
 - Note: If z/OS 1.6 is not exploited, 1.4 data must be used to properly represent capacity.
- Legacy LSPR Data (z900, z890, z800, and S/390 processors)
 - OS/390 V2.10
- Combined LSPR Data (limited SCP/workload selection)
 - Assumes z/OS 1.4

Capacity is relative to a 2064-210 assumed at 1.0000 (entire CEC)

Select Workloads

zPCR - Workloads [untitled]

Workload Graph Help

zSeries LSPR Data (10/31/2004)

Workload Mix Definitions and Display Selections

LSPR Workload Primitives

z/OS 1.4 (capacity for versions prior to 1.6)

z/OS 1.6 (24-way support)

z/OS

1. CB-L	Comm Batch (long jobs)
2. CB-S	Comm Batch (short jobs)
3. WASDB	WebSphere App Serving &...
4. OLTP-W	Web-enabled on-line
5. OLTP-T	Traditional on-line
6. EAS-DB	DB server for SAP

z/VM

1. CMS1	Interactive CMS Users
2. WASDB/Lvm	WebSphere App Serving &...

Linux

1. WASDB/L	WebSphere App Serving &...
2. EAS-AS/L	Enterprise App Solution un...

LSPR Workload Mixes

Predefined

Generic (not for capacity planning)

z/OS **LSPR-Mix** LSPR Generic Mix

New (zSeries data only)

z/OS **Web-Mix** Web-centric Activity

Suggested (zSeries & Legacy data)

1. z/OS TI-Mix	Transaction Intensive
2. z/OS TD-Mix	Transaction Dominant
3. z/OS TM-Mix	Transaction Moderate
4. z/OS CB-Mix	Commercial Batch
5. z/OS LoIO-Mix	Low I/O Content

Display

User Defined

SCP	Name
1. none defined	
2.	
3.	
4.	
5.	

Add z/OS Change

Initialize >

Add Primitives >

Add >

< Remove

Displayed in LSPR Tables

SCP	Name
01. z/OS	LSPR-Mix
02. z/OS	CB-L
03. z/OS	CB-S
04. z/OS	WASDB
05. z/OS	OLTP-W
06. z/OS	OLTP-T

Move Up ^

Move Down v

Set Focus

Return

Cancel

Choosing a Workload Mix

Select Choosing Workload Mix

LSPR Workload Help System

Choosing a Workload Mix

As an aid for deciding which LSPR workload primitive(s) should be used to represent a production workload, five suggested workload mixes have been defined, common to both the **zSeries LSPR Data** and the **Legacy LSPR Data**. **Normally, one of these five suggested mixes should be used for z/OS (or OS/390) capacity planning exercises.** Guidelines for selecting the appropriate workload mix, or defining your own, are discussed under [Tailoring a Custom Mix](#), below.

Note: If a capacity planning exercise involves migration from a G6 or prior processor, capacity data must be bridged between the **zSeries LSPR Data** (in **zPCR**) and the **Legacy LSPR Data** (in **zPCR** and **PCRW**). **When bridging is required, it is essential that one of these five suggested workload mixes be used.** This is because the actual LSPR workload primitives that were measured differ between the various sets of LSPR data. The mix content for each of the five suggested mixes in the OS/390 LSPR tables has been specifically set to help assure consistency in capacity relationships with those produced from the z/OS LSPR table.

The suggested workload mixes include:

1.	TI-Mix	Transaction Intensive	60% Online / 40% Other
2.	TD-Mix	Transaction Dominant	40% Online / 60% Other
3.	TM-Mix	Transaction Moderate	30% Online / 70% Other
4.	CB-Mix	Transaction Moderate	100% Other
5.	LoIO-Mix	Low IO Content	Special case when IO rate per MSU < 30

For zSeries LSPR Data (available in **zPCR**):

- The **Online** component is distributed equally between **OLTP-T** and **OLTP-W**
- The **Other** component is assigned as $\frac{3}{4}$ **CB-L** and $\frac{1}{4}$ **CB-S**

For Legacy LSPR Data (available in **zPCR** and in **PCRW**):

- The **Online** component is distributed between **TSO**, **CICS/DB2**, and **IMS**
- The **Other** component is generally assigned as $\frac{3}{4}$ **CBW2** and $\frac{1}{4}$ **CB84**

Refer to the **Workloads** window in **zPCR** and/or in **PCRW** to see the specific weights assigned to define these mixes. Note that the exact mixes assigned are unique to each set of OS/390 (i.e., v2r10, v2r4, or v1r1) LSPR data.

Select LoIO-Mix

LoIO-Mix Workload - a Special Case

In cases where the total system DASD IO per second per MSU (that is, the total DASD IO rate divided by the consumed MSUs of the system) is less than 30, the predefined **LoIO-Mix** should be chosen. This mix is the preferred representation for production workload that falls in this category.

Note: MSU values for the z890 and z990 are now shown in **zPCR** and **PCRW** as discounted values (providing improved software price/performance). Therefore, they must be adjusted to determine if the **LoIO-Mix** workload would apply. In these cases, you should divide the MSU value shown in **zPCR** or **PCRW** by 0.90 to get the MSU value to be used for the **LoIO-Mix** workload test.

Example

2084-301	Processor model
70	MSU (a discounted value for z990)
64%	Utilization for this workload
1,395	DASD IO rate per second

Calculations

$70 \div 0.90 = 77.8$	2084-301 discounted MSU adjusted to full capacity
$0.64 \times 77.8 = 49.8$	MSUs consumed
$1,395 \div 49.8 = 28.0$	DASD IO rate per consumed MSU

This workload qualifies for **LoIO-Mix** since it demonstrates less than 30 DASD IOs per MSU consumed.

Close the window



zSeries LSPR Data (10/31/2004)

Workload Mix Definitions and Display Selections

LSPR Workload Primitives

- z/OS 1.4 (capacity for versions prior to 1.6)
- z/OS 1.6 (24-way support)

z/OS

- 1. **CB-L** Comm Batch (long jobs)
- 2. **CB-S** Comm Batch (short jobs)
- 3. **WASDB** WebSphere App Serving &...
- 4. **OLTP-W** Web-enabled on-line
- 5. **OLTP-T** Traditional on-line
- 6. **EAS-DB** DB server for SAP

z/VM

- 1. **CMS1** Interactive CMS Users
- 2. **WASDB/Lvm** WebSphere App Serving &...

Linux

- 1. **WASDB/L** WebSphere App Serving &...
- 2. **EAS-AS/L** Enterprise App Solution un...

LSPR Workload Mixes

Predefined

Generic (not for capacity planning)
z/OS **LSPR-Mix** LSPR Generic Mix

New (zSeries data only)

z/OS **Web-Mix** Web-centric Activity

Suggested (zSeries & Legacy data)

- 1. z/OS **TI-Mix** Transaction Intensive
- 2. z/OS **TD-Mix** Transaction Dominant
- 3. z/OS **TM-Mix** Transaction Moderate
- 4. z/OS **CB-Mix** Commercial Batch
- 5. z/OS **LoIO-Mix** Low I/O Content

Display

User Defined

SCP	Name
1.	none defined
2.	
3.	
4.	
5.	

Add z/OS

Change

Initialize >

Add Primitives >

Add >

< Remove

Displayed in LSPR Tables

SCP	Name
01.	z/OS LSPR-Mix
02.	z/OS CB-L
03.	z/OS CB-S
04.	z/OS WASDB
05.	z/OS OLTP-W
06.	z/OS OLTP-T

Move Up ^

Move Down v

✕ Set Focus

Return

Cancel

Choosing a Workload Mix

Select Return

zPCR - Function Selection [untitled]

File Customize CPcalculator Help

zPCR
Capacity Planning for IBM zSeries Processors

Customer / Study Identification

zSeries LSPR Data

—LSPR Capacity Ratios—

Selected SCP/workload environments

Traditional IFL

Typical LPAR configurations (focus SCP/workload)

LPAR Configurations LSPR Info

—LPAR Capacity Planning—

Specify LPAR Host and Detailed LPAR configuration

Detailed LPAR Capacity Plan

Reference-CPU Workloads

Select LSPR Table to be Used

- zSeries LSPR Data (z990, z900, z890, z800 processors)
 - z/OS 1.4 (capacity for versions prior to 1.6)
 - z/OS 1.6 (24-way support)

Note: If z/OS 1.6 is not exploited, 1.4 data must be used to properly represent capacity.
- Legacy LSPR Data (z900, z890, z800, and S/390 processors)
 - OS/390 V2.10
- Combined LSPR Data (limited SCP/workload selection)
 - Assumes z/OS 1.4

Capacity is relative to a 2064-210 assumed at 2,326 MIPS (single LP)

Select Detailed LPAR Capacity Plan

zPCR - LPAR Detail: Host and Partition Configuration [untitled]

File Help

zSeries LSPR Data (10/31/2004)

LPAR Configuration Capacity Planning

LPAR Host Processor		Logical Partition Configuration			
		CP Pool	No. of Logical		LCP:RCP Ratio
		Partition	Partitions	CPs	
Processor Model	2084-A08				
Configurable CPs	8				
TRAD	7				
zAAP	1				
IFL	0				
ICF	0				
Unassigned	0				
Number of Books	1				
Unassigned Books	1				
Maximum partitions	30				

Specify Host

Traditional LPs IFL LPs ICF LPs

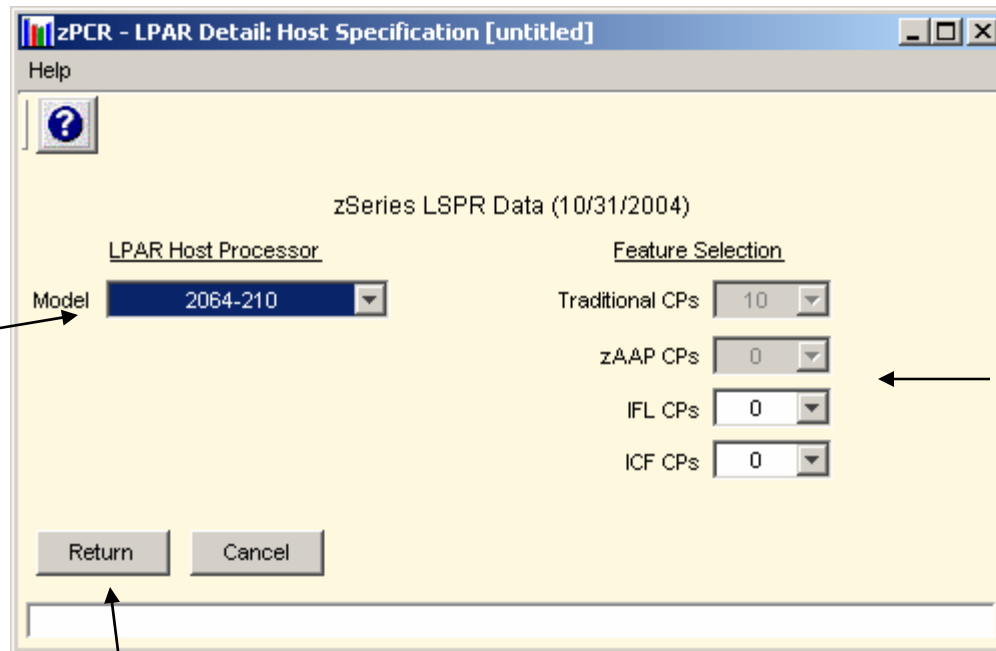
Reports: Summary Detail

Information: About Partitioning zAAP considerations

Return

Select Specify Host





Update Host Processor



Update Features Selected



Select return



zPCR - LPAR Detail: Host and Partition Configuration [untitled]

File Help

zSeries LSPR Data (10/31/2004)

LPAR Configuration Capacity Planning

LPAR Host Processor		Logical Partition Configuration						
Processor Model	2064-210	CP Pool	No. of Logical		LCP:RCP Ratio			
Configurable CPs	16	Partition	Partitions	CPs				
TRAD	10							
zAAP	n/s							
IFL	0							
ICF	0							
Unassigned	6							
Number of Books	n/s							
Unassigned Books	n/s							
Maximum partitions	15							
<input type="button" value="Specify Host"/>						<input type="button" value="Traditional LPs"/> <input checked="" type="button" value="IFL LPs"/> <input type="button" value="ICF LPs"/>		

Reports:

Information:

Select Traditional LPs

zPCR - LPAR Detail: Partition Definition [untitled]

File Help

zSeries LSPR Data (10/31/2004)

Define Traditional Partitions

LPAR Host = 2064-210 using 10 CPs: 10 TRADs

Capacity is relative to a 2064-210 assumed at 2,326 MIPS (single LP)

Include	LP Identification					LP Configuration					zAAP LCPs
	No.	Type	Name	SCP	Workload	Mode	LCPs	Weight	Weight %	Capping	
<input checked="" type="checkbox"/>	1	TRAD	LP-05	z/OS**	TM-Mix	SHR	1	100	100.0%	<input type="checkbox"/>	n/a

LP Name

Default prefix

CP pool summary	# LPs	# LCPs	LCP:RCP	Sum of Weights
DED	0	0	n/a	n/a
SHR	1	1	0.1	100

Move LP

▲ ▲

▼ ▼

Input fields are white background; Single click selection field for drop-down list; Double click entry fields to open.

Enter LPAR Definitions for the 2064-210

zPCR - LPAR Detail: Partition Definition [untitled]

File Help

zSeries LSPR Data (10/31/2004)

Define Traditional Partitions

LPAR Host = 2064-210 using 10 CPs: 10 TRADs

Capacity is relative to a 2064-210 assumed at 2,326 MIPS (single LP)

Include	LP Identification					LP Configuration					zAAP LCPs
	No.	Type	Name	SCP	Workload	Mode	LCPs	Weight	Weight %	Capping	
<input checked="" type="checkbox"/>	1	TRAD	WSC1	z/OS**	LolO-Mix	SHR	6	500	50.0%	<input type="checkbox"/>	n/a
<input checked="" type="checkbox"/>	2	TRAD	WSC2	z/OS**	LolO-Mix	SHR	3	250	25.0%	<input type="checkbox"/>	n/a
<input checked="" type="checkbox"/>	3	TRAD	WSC3	z/OS 1.6	LolO-Mix	SHR	3	250	25.0%	<input type="checkbox"/>	n/a

CP pool summary	# LPs	# LCPs	LCP:RCP	Sum of Weights
DED	0	0	n/a	n/a
SHR	3	12	1.2	1,000

LP Name: LP

Default prefix:

Input fields are white background; Single click selection field for drop-down list; Double click entry fields to open.

Select Return



zPCR - LPAR Detail: Host and Partition Configuration [untitled]

File Help

zSeries LSPR Data (10/31/2004)

LPAR Configuration Capacity Planning

LPAR Host Processor		Logical Partition Configuration			
Processor Model	2064-210	CP Pool	No. of Logical		LCP:RCP Ratio
Configurable CPs	16	Partition	Partitions	CPs	
TRAD	10	TRAD			
zAAP	n/s	Dedicated	0	0	n/a
IFL	0	Shared	3	12	1.200
ICF	0	zAAP/IFL/ICF			
Unassigned	6	Dedicated	0	0	n/a
Number of Books	n/s	Shared	0	0	0.000
Unassigned Books	n/s	Totals	3	12	
Maximum partitions	15				

Specify Host

Traditional LPs IFL LPs ICF LPs

Reports: Summary **Detail**

Information: About Partitioning zAAP considerations

Return

Select Detail



Store results in clipboard

zPCR - LPAR Detail: Capacity Report [untitled]

File Help

zSeries LSPR Data (10/31/2004)

LPAR Host and Partition Capacity

LPAR Host = 2064-210 using 10 CPs: 10 TRADs
Active partitions = 3: 3 TRAD

Capacity is relative to a 2064-210 assumed at 2,326 MIPS (entire CEC)

Include	LP Identification					LP Configuration				LP Capacity		
	No.	Type	Name	SCP	Workload	Mode	# LCPs	Weight	Weight %	Capping	Minimum	Maximum
<input checked="" type="checkbox"/>	1	TRAD	WSC1	z/OS**	LoIO-Mix	SHR	6	500	50.0%	<input type="checkbox"/>	1,125.1	1,350.1
<input checked="" type="checkbox"/>	2	TRAD	WSC2	z/OS**	LoIO-Mix	SHR	3	250	25.0%	<input type="checkbox"/>	568.3	681.9
<input checked="" type="checkbox"/>	3	TRAD	WSC3	z/OS 1.6	LoIO-Mix	SHR	3	250	25.0%	<input type="checkbox"/>	567.0	680.3

Table View

CP Pools displayed: TRAD zAAP/FL/ICF

Partitions displayed: All Includes Only

Return Compare to Current

LPAR configuration capacity summary

3 Partitions in TRAD RCP pool	2,260.3
0 Partitions in zAAP/FL/ICF RCP pool	0.0
3 Partitions - combined total	2,260.3

Input fields are white background; Double click entry fields to open.

Capacity of our 2064-210 with 3 LPARS

Select Return

Contents of Clipboard

Can be pasted into a document



zPCR (2.4) - LPAR Capacity Report

zSeries LSPR Data (10/31/2004)

LPAR Host and Partition Capacity

LPAR Host = 2064-210 using 10 CPs: 10 TRADs

Active partitions = 3; 3 TRAD, 0 zAAP, 0 IFL, 0 ICF

Capacity is relative to a 2064-210 assumed at 2,326 MIPS (entire CEC)

LP Identification				LP Definition							LP Capacity	
Inc	No	Type	Name	SCP	Workload	Mode	#LCs	Weight	Weight%	Capping	Minimum	Maximum
Y	1	TRAD	WSC1	z/OS**	LoIO-Mix	SHR	6	500	50.0%		1,125.1	1,350.1
Y	2	TRAD	WSC2	z/OS**	LoIO-Mix	SHR	3	250	25.0%		568.3	681.9
Y	3	TRAD	WSC3	z/OS 1.6	LoIO-Mix	SHR	3	250	25.0%		567.0	680.3
Totals for all partitions included in configuration											LP capacity	
-----											-----	
3 Partitions in TRAD RCP pool											2,260.3	
0 Partitions in zAAP/IFL/ICF RCP pool											0.0	
3 Partitions - combined total											2,260.3	

zPCR - LPAR Detail: Host and Partition Configuration [untitled]

File Help

zSeries LSPR Data (10/31/2004)

LPAR Configuration Capacity Planning

LPAR Host Processor		Logical Partition Configuration			
Processor Model	2064-210	CP Pool	No. of Logical		LCP:RCP Ratio
Configurable CPs	16	Partition	Partitions	CPs	
TRAD	10	TRAD			
zAAP	n/s	Dedicated	0	0	n/a
IFL	0	Shared	3	12	1.200
ICF	0	zAAP/IFL/ICF			
Unassigned	6	Dedicated	0	0	n/a
Number of Books		Shared	0	0	0.000
Unassigned Books		Totals	3	12	
Maximum partitions	15				

Specify Host

Traditional LPs IFL LPs ICF LPs

Reports: Summary **Detail**

Information: **About Partitioning** zAAP considerations

Return

Select Specify Host

zPCR - LPAR Detail: Host Specification [untitled]

Help

zSeries LSPR Data (10/31/2004)

LPAR Host Processor		Feature Selection	
Model	2084-A08	Traditional CPs	7
		zAAP CPs	1
		IFL CPs	0
		ICF CPs	0

Return Cancel

Update Host Processor

Update Feature Selection

Select Return

zPCR - LPAR Detail: Host and Partition Configuration [untitled]

File Help

zSeries LSPR Data (10/31/2004)

LPAR Configuration Capacity Planning

LPAR Host Processor		Logical Partition Configuration			
Processor Model	2084-A08	CP Pool	No. of Logical		LCP:RCP Ratio
Configurable CPs	8	Partition	Partitions	CPs	
TRAD	7	TRAD			
zAAP	1	Dedicated	0	0	n/a
IFL	0	Shared	3	12	1.714
ICF	0	zAAP/IFL/ICF			
Unassigned	0	Dedicated	0	0	n/a
Number of Books	1	Shared	0	0	0.000
Unassigned Books	none	Totals	3	12	
Maximum partitions	30				

Specify Host

Traditional LPs IFL LPs ICF LPs

Reports: Summary Detail

Information: About Partitioning zAAP considerations

Return

Select Traditional CPs

zPCR - LPAR Detail: Partition Definition [untitled]

File Help

zSeries LSPR Data (10/31/2004)

Define Traditional Partitions

LPAR Host = 2084-A08 using 8 CPs: 7 TRADs, and 1 zAAP

Capacity is relative to a 2064-210 assumed at 2,326 MIPS (entire CEC)

Include	LP Identification					LP Configuration					zAAP LCPs
	No.	Type	Name	SCP	Workload	Mode	LCPs	Weight	Weight %	Capping	
<input checked="" type="checkbox"/>	1	TRAD	WSC1	z/OS**	LolO-Mix	SHR	5	500	50.0%	<input type="checkbox"/>	n/a
<input checked="" type="checkbox"/>	2	TRAD	WSC2	z/OS**	LolO-Mix	SHR	3	250	25.0%	<input type="checkbox"/>	n/a
<input checked="" type="checkbox"/>	3	TRAD	WSC3	z/OS 1.6	LolO-Mix	SHR	3	250	25.0%	<input type="checkbox"/>	1

LP Name

Default prefix

CP pool summary	# LPs	# LCPs	LCP:RCP	Sum of Weights
DED	0	0	n/a	n/a
SHR	3	11	1.6	1,000

Move LP

Input fields are white background; Single click selection field for drop-down list; Double click entry fields to open.

Update LPAR Definitions for 2084

Select Return

zPCR - LPAR Detail: Host and Partition Configuration [untitled]

File Help

zSeries LSPR Data (10/31/2004)

LPAR Configuration Capacity Planning

LPAR Host Processor		Logical Partition Configuration			
Processor Model	2084-A08	CP Pool	No. of Logical		LCP:RCP Ratio
Configurable CPs	8	Partition	Partitions	CPs	
TRAD	7	TRAD			
zAAP	1	Dedicated	0	0	n/a
IFL	0	Shared	3	11	1.571
ICF	0	zAAP/IFL/ICF			
Unassigned	0	Dedicated	0	0	n/a
Number of Books	1	Shared	1	1	1.000
Unassigned Books	none	Totals	4	12	
Maximum partitions	30				

Specify Host

Traditional LPs IFL LPs ICF LPs

Reports: Summary **Detail**

Information: About Partitioning zAAP considerations

Return

Select Detail



zPCR - LPAR Detail: Capacity Report [untitled]

File Help

zSeries LSPR Data (10/31/2004)

LPAR Host and Partition Capacity

LPAR Host = 2084-A08 using 8 CPs: 7 TRADs, and 1 zAAP
 Active partitions = 4: 3 TRAD , 1 zAAP

Capacity is relative to a 2064-210 assumed at 2,326 MIPS (entire CEC)

Include	LP Identification					LP Configuration				LP Capacity		
	No.	Type	Name	SCP	Workload	Mode	# LCPs	Weight	Weight %	Capping	Minimum	Maximum
<input checked="" type="checkbox"/>	1	TRAD	WSC1	z/OS**	LolO-Mix	SHR	5	500	50.0%	<input type="checkbox"/>	1,238.2	1,768.8
<input checked="" type="checkbox"/>	2	TRAD	WSC2	z/OS**	LolO-Mix	SHR	3	250	25.0%	<input type="checkbox"/>	624.2	1,070.0
<input checked="" type="checkbox"/>	3	TRAD	WSC3	z/OS 1.6	LolO-Mix	SHR	3	250	25.0%	<input type="checkbox"/>	614.7	1,053.8
<input checked="" type="checkbox"/>	4	zAAP	WSC3	z/OS 1.6	LolO-Mix	SHR	1	250	100.0%	<input type="checkbox"/>	366.5	366.5

Table View

CP Pools displayed Partitions displayed

TRAD All

zAAP/MFLICF Includes Only

LPAR configuration capacity summary

3 Partitions in TRAD RCP pool	2,477.1
1 Partitions in zAAP/MFLICF RCP pool	366.5
4 Partitions - combined total	2,843.6

Return Compare to Current

Input fields are white background; Double click entry fields to open.

GP CP Capacity

zAAP CP Capacity

Total CEC Capacity

zPCR Results

- **Reference CPU is a 2064-210 provides 2326 MIPS (customer defined)**
- **2064-210 with current LPAR configuration provides approximately 2260 MIPS**
- **2084-307 (A08) and 1 zAAP with the proposed LPAR configuration would deliver approximately 2,477 GP CP MIPS and 366 zAAP CP MIPS for a total capacity of approximately 2843 MIPS**

Where to Get More Information

- **The IBM Processor Capacity Reference for zSeries User Manual**
 - Provides information about all the features contained in the tool
- **The zPCR Newsgroup**
 - Provides Q&A support
- **The zPCR Email address**
 - Provides defect support