



IBM @server zSeries 990

ITSO - z990 Technical Workshop

z990 Processor Profiles and Channel Display Panels

Reset Profile

Image Profile

System and Storage Information

HSA Estimation Tool

2084-z990

ITSO Poughkeepsie

06/16/03

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IBM @server zSeries 990

ITSO - z990 Technical Workshop

Processor Display Panels

RESET Profile

2084-z990

ITSO Poughkeepsie

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Views

Groups
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Defined CPCs Work Area

SCZP702
 SCZP801
 SCZP901

Daily

Hardware Messages
 Operating System Messages
 Activate
 Reset Normal
 Deactivate
 Grouping
 Activity
 Help

SCZP901 Details

Instance information










Status: **Operating** Activation profile: SCZP901
Group: Defined CPCs Last used profile: not set via Activate
Lockout disruptive tasks: ☐ Yes ☒ No Manually defined: No

Last task information

Task name: Single Object Operations
Task status:

z990 **HMC-CPC** details panel for:
CPC name SCZP901
2084 model A08 machine serial # 026A3A

Acceptable status

<input checked="" type="checkbox"/> Operating - 	<input type="checkbox"/> Power save - 	<input type="checkbox"/> Communications not active - <input type="checkbox"/>
<input type="checkbox"/> Not Operating - 	<input type="checkbox"/> Exceptions - 	<input type="checkbox"/> Service - 
<input type="checkbox"/> No Power - 	<input type="checkbox"/> Status check - 	<input type="checkbox"/> Service Required - 
	<input type="checkbox"/> Degraded - 	

Product information

Machine type - model: 002084 - A08
Machine serial: 02 - 0026A3A
Machine sequence: 000000026A3A
Plant of manufacture: 02
Manufacturer: IBM
CPC serial: 000020026A3A
CPC location: A19B
CPC identifier: 00
SNA address: USIBMSC.SCZP901
Node id: 05D - 03901

LAN interface 1 address: 006094B9A1DA (Token Ring)
TCP/IP interface 1 address: 9.12.3.240
Alternate TCP/IP interface 1 address: 9.12.3.241
TCP/IP interface 1 mask: 255.255.255.224
LAN interface 2 address: 000825AE8B0B (Ethernet)
TCP/IP interface 2 address:
Alternate TCP/IP interface 2 address:
TCP/IP interface 2 mask:



SCZP901: Primary Support Element Workplace (Version 1.8.0)

Views

Groups
 Exceptions
 Active Tasks
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 Books

CPC Work Area

SCZP901

Daily

Hardware Messages
 Operating System Messages
 Activate
 Reset Normal
 Deactivate
 Grouping
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 Help

z990 - 2084 CPC Details Panel - Note Hardware and Software Model



SCZP901: Primary Support Element Workplace (Version 1.8.0)

Views Daily

SCZP901 Details

Instance information

CP Status:	Operating	Activation profile:	DEFAULT
CHPID Status:	Exceptions	Last used profile:	not set via Activate
Group:	CPC	Service state:	Disabled
IOCDS identifier:	A0	Maximum CPs:	5
IOCDS name:	IODF22	Maximum ICFPs:	3

Lockout disruptive tasks: ☐ Yes ☒ No

System mode: Logically partitioned Dual AC power maintenance: Fully Redundant
Alternate SE Status: Operating CP Assist for Cryptographic Functions: Installed

Acceptable CP/CHPID status

<input checked="" type="checkbox"/> Operating - ■	<input type="checkbox"/> Power save - ■	<input type="checkbox"/> No power - ■
<input type="checkbox"/> Not Operating - ■	<input type="checkbox"/> Exceptions - ■	<input type="checkbox"/> Status check - ■
<input checked="" type="checkbox"/> Acceptable - ■	<input type="checkbox"/> Service Required - ■	<input type="checkbox"/> Degraded - ■

Product information

Machine type / Model:	002084 / A08-305	Manufacturer:	IBM
Machine serial:	02 - 0026A3A	CPC serial:	000020026A3A
Machine sequence:	000000026A3A	CPC location:	A19B
Plant of Manufacture:	02	CPC identifier:	00

Save Change Options Defaults Cancel Help

The z990 **SE-CPC** details panel Machine type information, shows the machine model, the: Hardware model number, and a Software model number

For this CPC the:

Hardware model number = A08

Software model = 305

Also 3 PUs are characterized as 3 ICFPs



- The z990 RESET profile customization follows the same approach as the z990
- The customization tabs are:
 - General
 - Only LPAR mode is supported, Basic mode is NOT supported
 - Understand the Image scroll options (image list is from 1 to 30 images)
 - Storage
 -
 - Dynamic
 - Dynamic expansion option removed, use I/O definition MAXDEV instead
 - Options
 - No change to this panels options
 - CP/SAP
 - No change, still allows expensive CPs to be used as additional SAPs
 - Partitions
 - Generally no change to this panel, other than a much larger list
 - Review Image activation order for the z990



Customize Activation Profiles : SCZP901

Profile name
SCZP901
Assigned for activation

Description
P901 Reset profile

Input/Output Configuration Data Set	Type	Allow Dynamic I/O	Partitions
A0 IODF22	Partition	Yes	A0A A0B A
A1 IODF17	Partition	Yes	A0A A0B A
A2 IODF18	Partition	Yes	A0A A0B A
A3 IODF20	Partition	Yes	A0A A0B A
D0 DIAGNOSE	Partition	No	0D0LP01 0D0LP02
Use Active IOCDs	Currently A0		

Mode
Logically partitioned

Load delay for power sequencing
0 minutes 0 seconds

General
Storage
Dynamic
Options
CP/S

Logical partitioned kmode, is the only mode supported on the z990, Basic mode is not support (HCD also only provides the LPAR mode option)


A suggested Logical Partition 'suffix' naming convention: 'lpnamexx' (in HCD/IOCP) where 'lpname' is the first 6 characters of the customer required LP name

where xx = lpname suffix
1st character = CSSid (0 = LCSS.0, 1 = LCSS.1)
2nd character = same as MIFid of 1 to F



Customize Activation Profiles : SCZP901

Installed Storage Details



Installed storage (in Megabytes):	65536	MB
Customer storage:	65408	MB
Assumed base hardware system area (HSA):	128	MB

No change
Except much larger quantities of storage shown
This example there is 64GB enabled (and 64GB installed)

See the Storage Information' panel for details of the actual HSA size

SCZP901
SCZP901:A0D
SCZP901:A0E
SCZP901:A0F
SCZP901:A1E
SCZP901:A1F
SCZP901:A01
SCZP901:A02
SCZP901:A03
SCZP901:A04
SCZP901:A05
SCZP901:A06
SCZP901:A07
SCZP901:A08
SCZP901:A09

General Storage Dynamic Options CP/SAP Partitions



Customize Activation Profiles : SCZP901

Dynamic I/O

☒ Allow dynamic changes to the channel subsystem input/output (I/O) definition

No change
Note: The Dynamic I/O option applies to all the LCSSs

The Dynamic I/O expansion setting is removed from this panel.
The dynamic I/O expansion requirement is now supported within HCD (IODF) by the MAXDEV option when defining an LCSS

SCZP901

SCZP901:A0D

SCZP901:A0E

SCZP901:A0F

SCZP901:A1E

SCZP901:A1F

SCZP901:A01

SCZP901:A02

SCZP901:A03

SCZP901:A04

SCZP901:A05

SCZP901:A06

SCZP901:A07

SCZP901:A08

SCZP901:A09

Supported only if the selected IOCDs allows Dynamic I/O

General Storage **Dynamic** Options CP/SAP Partitions



Customize Activation Profiles : SCZP901

☒ Enable global input/output (I/O) priority queuing

☒ Automatic input/output (I/O) interface reset

System recovery time

☐ Limit system recovery time

Time limit 1 to 999 seconds

Processor running time

Warning: Selecting 'Determined by the user' risks suboptimal use of processor resources.

☒ Dynamically determined by the system

☐ Determined by the user

No change on this panel

SCZP901

SCZP901:A0D

SCZP901:A0E

SCZP901:A0F

SCZP901:A1E

SCZP901:A1F

SCZP901:A01

SCZP901:A02

SCZP901:A03

SCZP901:A04

SCZP901:A05

SCZP901:A06

SCZP901:A07

SCZP901:A08

SCZP901:A09

General

Storage

Dynamic

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CP/SAP

Partitions



Customize Activation Profiles : SCZP901

Select a CP/SAP assignment.

CPs	SAPs
5	2
4	3
3	4
2	5
1	6

Integrated coupling facility processors (ICFs): 3

The CP/SAP assignment selection allows the customer to use purchased CPs as SAPs.

When using this option, the z990 software model number does not change, as the purchased characterization of the PU (a CP) remains the same

This CPC is a 2084 model A08, software model 305 (5 PUs characterized as CPs, with also 3 PUs characterized as ICFs. AS per the information shown on the SE-CPC details panel

SCZP901

SCZP901:A0D

SCZP901:A0E

SCZP901:A0F

SCZP901:A1E

SCZP901:A1F

SCZP901:A01

SCZP901:A02

SCZP901:A03

SCZP901:A04

SCZP901:A05

SCZP901:A06

SCZP901:A07

SCZP901:A08

SCZP901:A09

General

Storage

Dynamic

Options

CP/SAP

Partitions



Customize Activation Profiles : SCZP901

Specify the order in which the logical partitions will be activated. If no order is specified for a partition, it will not be activated.

Partition	Order	Partition	Order
A0D	1	A14	21
A0E	2	A15	22
A0F	3		
A1E	4		
A1F	5		
A01	6		
A02	7		
A03	8		
A04	9		
A05	10		
A06	11		
A07	12		
A08	13		
A09	14		
AAA	15		

See next foil for activation order recommendations

SCZP901
SCZP901:A0D
SCZP901:A0E
SCZP901:A0F
SCZP901:A1E
SCZP901:A1F
SCZP901:A01
SCZP901:A02
SCZP901:A03
SCZP901:A04
SCZP901:A05
SCZP901:A06
SCZP901:A07
SCZP901:A08
SCZP901:A09

General

Storage

Dynamic

Options

CP/SAP

Partitions



- Recommended activation order

- Production CF images with dedicated ICFs and the largest defined amount of storage
- Production ESA/390 or TPF images with dedicated CPs and with the largest defined amount of central storage
- Production ESA/390 or TPF images with dedicated CPs and a small amount of defined central storage
- Production ESA/390 or TPF images with shared CPs and with the largest defined amount of central storage
- Production ESA/390 or TPF images with shared CPs and a small amount of defined storage
- Production Linux images using IFLs and with the largest amount of defined central storage
- Production Linux images using IFLs and with a small amount of defined central storage



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Processor Display Panels

IMAGE Profile

2084-z990

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Customize Activation Profiles : SCZP901

Profile name: SCZP901 Assigned for activation

Description: P901 Reset profile

Input/Output Configuration Data Set

Data Set	Type	Allow Dynamic I/O	Partitions
A0 IODF22	Partition	Yes	A0A A0B A
A1 IODF17	Partition	Yes	A0A A0B A
A2 IODF18	Partition	Yes	A0A A0B A
A3 IODF20	Partition	Yes	A0A A0B A
D0 DIAGNOSE	Partition	No	

Use Active IOCDS: Currently A0

Mode: Logically partitioned

Load delay for power sequencing: 0 minutes 0 seconds

RESET profile

RESET profile Logical Partition tab list, and tab up/down tab scroll buttons. Select Image Profile from this list

SCZP901:A01
SCZP901:A02
SCZP901:A03
SCZP901:A04
SCZP901:A05
SCZP901:A06
SCZP901:A07
SCZP901:A08
SCZP901:A09
SCZP901:A0A
SCZP901:A0B
SCZP901:A0C
SCZP901:A11
SCZP901:A12
SCZP901:A13

General Storage Dynamic Options CP/SAP Partitions



Customize Activation Profiles : SCZP901

Description

A11 image profile

Partition identifier

11

Mode

ESA/390

ESA/390 TPF

Coupling facility

LINUX Only

Clock type assignment

☒ Standard time of day

☐ Logical partition sysplex timer offset

General

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PCI Crypto

The Logical partition 'Partition Identifier' is a 1 or 2 digit unique hexadecimal value from 0 to 3F

Some logical partition software operating system / functional users may not support any Logical Partition ID from the full range of partition Identifiers

ESA/390 mode can be used for OS/390 z/OS - z/VM with the required software support for the z990

"Sysplex test datesource group" removed.

A03

A04

A05

A06

A07

A08

A09

A0A

SCZP901:A0B

SCZP901:A0C

SCZP901:A11

SCZP901:A12

SCZP901:A13

A14

A15



Customize Activation Profiles : SCZP901

Logical processor assignment

☐ Dedicated central processors

☒ Not dedicated central processors

Not dedicated central processor details

Initial processing weight 1 to 999 ☐ Initial capping

☐ Enable WorkLoad Manager

Minimum processing weight

Maximum processing weight

Number of processors – Initial Reserved

Cryptographic Coprocessor Selection Removed from this panel

You can only specify up to the maximum of 16 CPs (Initial + Reserved) to an ESA/390 image, even though there can be more than 16 CP physically available (up to 32 CPs on a 2084 D32 model. Specifying 16 is valid even on an A08. Specifying up to 16 is the same as for the 2064 support with 20 PU MCM.

SCZP901:A03

SCZP901:A04

SCZP901:A05

SCZP901:A06

SCZP901:A07

SCZP901:A08

SCZP901:A09

SCZP901:A0A

SCZP901:A0B

SCZP901:A0C

SCZP901:A11

SCZP901:A12

SCZP901:A13

SCZP901:A14

SCZP901:A15

General

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PCI Crypto



Customize Activation Profiles : SCZP901

Partition security options

☒ Global performance data control
 ☒ Input/output (I/O) configuration control
 ☐ Cross partition authority
 ☐ Logical partition isolation

No change

SCZP901:A03

SCZP901:A04

SCZP901:A05

SCZP901:A06

SCZP901:A07

SCZP901:A08

SCZP901:A09

SCZP901:A0A

SCZP901:A0B

SCZP901:A0C

SCZP901:A11

SCZP901:A12

SCZP901:A13

SCZP901:A14

SCZP901:A15

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Customize Activation Profiles : SCZP901

Central storage

Amount (in megabytes)

Initial

Reserved

Storage origin

☒ Determined by the system

☐ Determined by the user

Origin

Expanded storage

Amount (in megabytes)

Initial

Reserved

Storage origin

☒ Determined by the system

☐ Determined by the user

Origin

SCZP901:A03

SCZP901:A04

SCZP901:A05

SCZP901:A06

SCZP901:A07

SCZP901:A08

SCZP901:A09

SCZP901:A0A

SCZP901:A0B

SCZP901:A0C

SCZP901:A11

SCZP901:A12

SCZP901:A13

SCZP901:A14

SCZP901:A15

Central storage amount
You may specify up to 128 GB of central storage.
Determine what your OS will support

Storage origin (Central storage)
It is recommended that you use the
'Determined by the system' option

Expanded storage option
Some OSs do not support Expanded storage
One example is z/OS (64-bit) running on a z990
Before you use this option, determine for your OS
use if it supports expanded storage

Storage origin (Expanded storage)
If required, it is recommended that you use the
'Determined by the system' option



Customize Activation Profiles : SCZP901

Image options

Minimum input/output (I/O) priority

0

Maximum input/output (I/O) priority

0

Defined capacity

0

CP management cluster name

No change

SCZP901:A03

SCZP901:A04

SCZP901:A05

SCZP901:A06

SCZP901:A07

SCZP901:A08

SCZP901:A09

SCZP901:A0A

SCZP901:A0B

SCZP901:A0C

SCZP901:A11

SCZP901:A12

SCZP901:A13

SCZP901:A14

SCZP901:A15

General

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Load

PCI Crypto



Customize Activation Profiles : SCZP901

☐ Load during activation

Load address

Load parameter

Time-out value

0000

300

☐ Use dynamically changed address

☐ Use dynamically changed parameter

60 to 600 seconds

No change

SCZP901:A03

SCZP901:A04

SCZP901:A05

SCZP901:A06

SCZP901:A07

SCZP901:A08

SCZP901:A09

SCZP901:A0A

SCZP901:A0B

SCZP901:A0C

SCZP901:A11

SCZP901:A12

SCZP901:A13

SCZP901:A14

SCZP901:A15

General

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Load

PCI Crypto



Customize Activation Profiles : SCZP901

Control domain index 00 01 02 03 04 05 Usage domain index 00 01 02 03 04 05

PCI Cryptographic Candidate List 00 01 02 03 04 05 PCI Cryptographic Online List 00 01 02 03 04 05

Attention: You must install the 'IBM CP Assist for Cryptographic Functions' (CPACF) feature if a PCI Cryptographic Candidate is selected from the list box; otherwise, some functions of Integrated Cryptographic Service Facility (ICSF) may fail.

This item will be covered in another seminar

General Processor Security Storage Options Load PCI Crypto

SCZP901:A03
SCZP901:A04
SCZP901:A05
SCZP901:A06
SCZP901:A07
SCZP901:A08
SCZP901:A09
SCZP901:A0A
SCZP901:A0B
SCZP901:A0C
SCZP901:A11
SCZP901:A12
SCZP901:A13
SCZP901:A14
SCZP901:A15



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CPC Detail

Storage Information

HSA Estimation Tool

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SCZP901 - State Active - Keystrokes remote

Keystrokes

Session

Services

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Groups

Exceptions

Activation Tasks

Hardware

SCZP901 Details

Instance information

CP Status: Operating

Activation profile: DEFAULT

CHPID Status: Exceptions

Last used profile: not set via Activate

Group: CPC

Service state: Disabled

IOCDs identifier: A0

Maximum CPs: 5

IOCDs name: IODF22

Maximum ICFPs: 3

Lockout disruptive tasks: ☐ Yes ☒ No

System mode: Logically partitioned

Dual AC power maintenance: Fully Redundant

Alternate SE Status: Operating

CP Assist for Cryptographic Functions: Installed

Acceptable CP/CHPID status

☒ Operating -

☐ Power save -

☐ No power -

☐ Not Operating -

☐ Exceptions -

☐ Status check -

☒ Acceptable -

☐ Service Required -

☐ Degraded -

Product information

Machine type / model: 002084 / A08-305

Manufacturer: IBM

Machine serial: 02 - 0026A3A

CPC serial: 000020026A3A

Machine sequence: 000000026A3A

CPC location: A19B

Plant of manufacture: 02

CPC identifier: 00

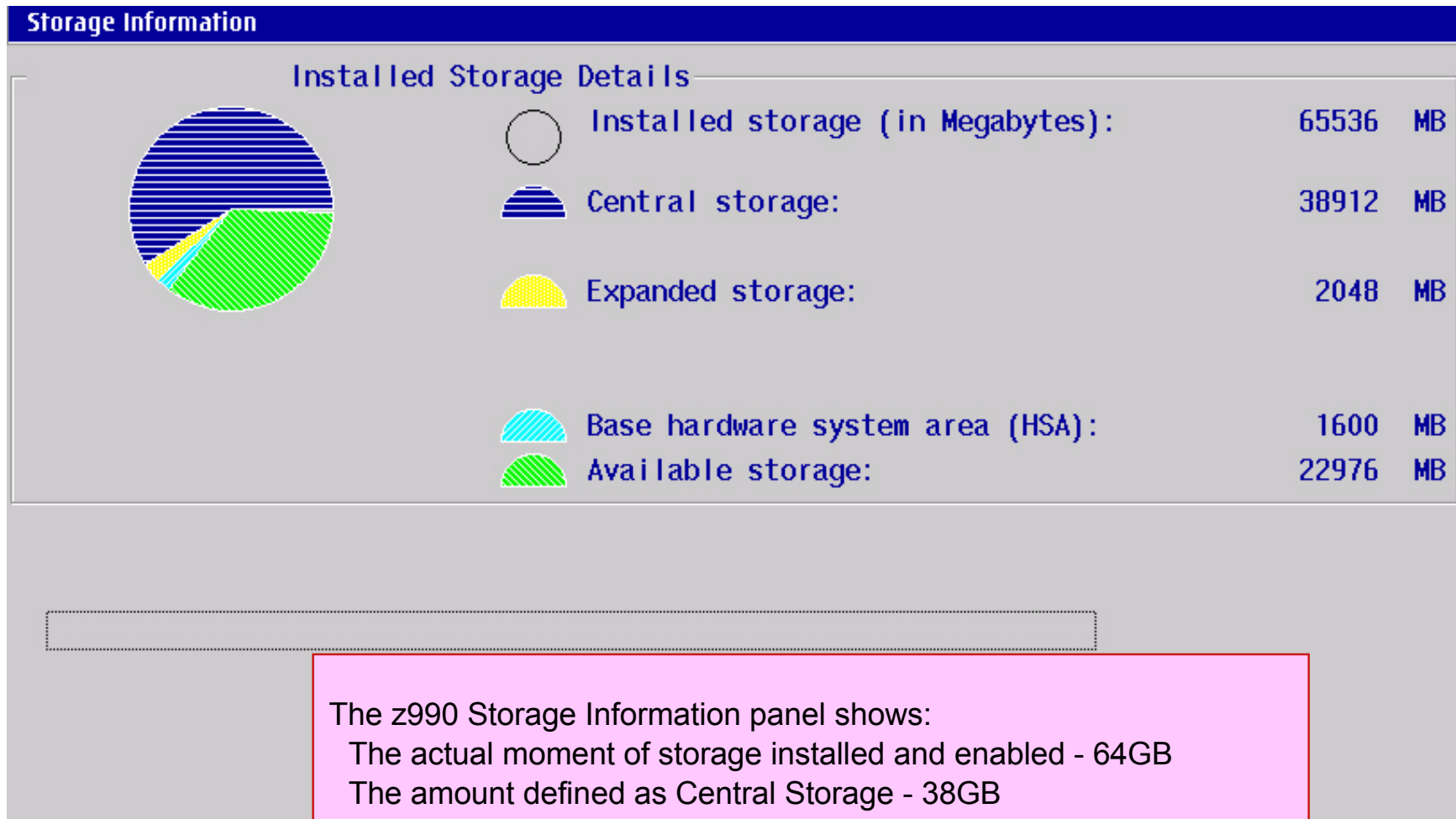
The z990 CPC details panel Machine type information, shows the machine model, the:

Hardware model number, and a Software model number

For this CPC the:

Hardware model number = A08

Software model = 305



The z990 Storage Information panel shows:

- The actual amount of storage installed and enabled - 64GB
- The amount defined as Central Storage - 38GB
- The amount defined as Expanded Storage - 2GB
(Expanded Storage is not used by z/OS)
- The actual hardware system area (HSA) storage amount - 1.6GB
- The amount of unassigned storage - 22GB



Storage Information

Input/output configuration data set (I0CDS): A3 I0DF20

Available storage: 22976 MB

Central Storage Allocation

Name	Origin	Initial	Current	Maximum	Gap	Expanded Storage Element
A0D	1045120	1024	1024	1024	0	
A0E	1044096	1024	1024	1024	0	
A0F	1043072	1024	1024	1024	0	
A1E	1041024	2048	2048	2048	0	
A1F	1040000	1024	1024	1024	0	

Expanded Storage Allocation

Name	Origin	Initial	Current	Maximum	Gap
A0B	1046528	2048	2048	2048	0
A14		0	0	0	
A13		0	0	0	
A12		0	0	0	
A11		0	0	0	

This storage mapping information was from a 1 Book system
There was 64GB of memory installed.

System origin assigned storage (image profile option) is assigned to a logical partition (image) in POR image activation order (or later when an image is manually activated) starting downwards from the highest z990 implemented storage address (1TB) (that is available and contiguous)

z990 - 2084 CPC Details Panel - Note Hardware and Software Model



G18: Primary Support Element Workplace (Version 1.8.0)

G18 Details

Instance information

CP Status:	Operating	Activation profile:	G18
CHPID Status:	Exceptions	Last used profile:	not set via Activate
Group:	CPC	Service state:	Disabled
IOCDs identifier:	A2	Maximum CPs:	32
IOCDs name:	TC4P610	Maximum ICFPs:	0

Lockout disruptive tasks: ☐ Yes ☒ No

System mode: Logically partitioned Dual AC power maintenance: Fully Redundant
Alternate SE Status: None CP Assist for Cryptographic Functions: Not Installed

Acceptable CP/CHPID status

<input checked="" type="checkbox"/> Operating -	<input type="checkbox"/> Power save -	<input type="checkbox"/> No power -
<input type="checkbox"/> Not Operating -	<input type="checkbox"/> Exceptions -	<input type="checkbox"/> Status check -
<input checked="" type="checkbox"/> Acceptable -	<input type="checkbox"/> Service Required -	<input type="checkbox"/> Degraded -

Product information

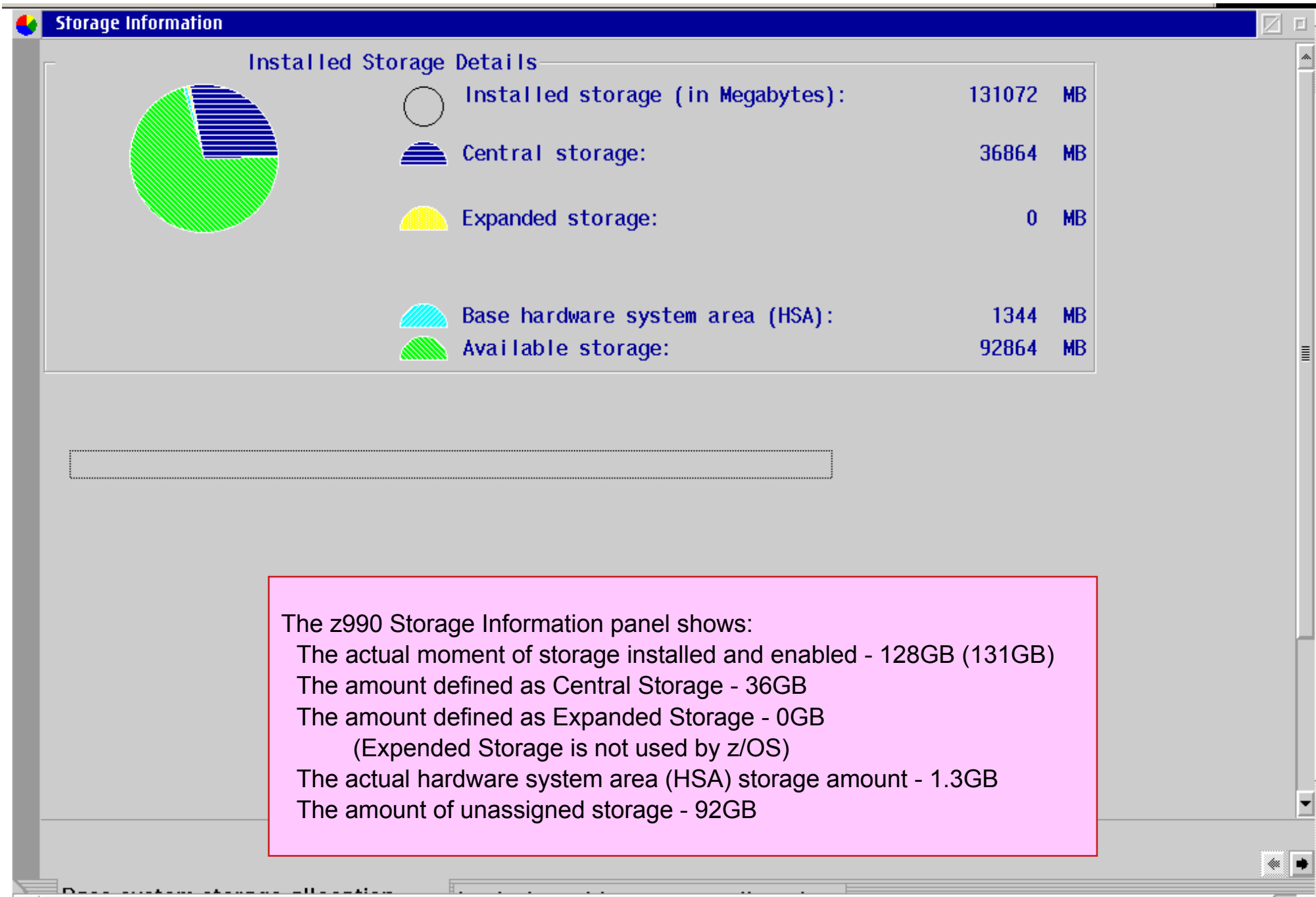
Machine type / model:	002084 / D32-332	Manufacturer:	IBM
Machine serial:	02 - 001796A	CPC serial:	00002001796A
Machine sequence:	00000001796A	CPC location:	A19B
Plant of manufacture:	02	CPC identifier:	00

Save Change Options... Upgrade reasons... Cancel Help

CPC Operation Customization

- Hardware Messages
- Operating System Mes
- Customize/[Activation Profiles
- Automatic Activation
- Scheduled Operations
- Change LPA Controls
- Change LPA Security
- Storage information
- System Activity Pro
- Enable/Disa Dynamic Ch Subsystem

The z990 CPC details panel Machine type information, shows the machine model, the:
Hardware model number, and a Software model number
For this CPC the:
Hardware model number = D32
Software model = 332





STORIES SESSION SERVICES HELP

Storage Information

Input/output configuration data set (IOCDs): A2 TC4P610

Available storage: 8320 MB

Central Storage Allocation

Name	Origin	Initial	Current	Maximum	Gap	Expanded Storage Element
CF01	1043328	3328	3328	3328	0	
CF11	1040000	3328	3328	3328	0	
TC4P01	1035840	3648	3648	4160	0	
TC4P02	1031680	3648	3648	4160	0	
TC4P03	1027520	3648	3648	4160	0	

This storage mapping information was from a 4 Book system
There was 128GB of memory installed.

System origin assigned storage (image profile option) is assigned to a logical partition (image) in POR image activation order (or later when an image is manually activated) starting downwards from the highest z990 implemented storage address (1TB) (that is available and contiguous)



IBM @server zSeries 990

ITSO - z990 Technical Workshop

HSA Estimation Tool

2084-z990

ITSO Poughkeepsie

06/16/03



- To access the z990 HSA estimation tool on the z990 doing the following:
 - Establish a HMC / SE single object operation to the z990
 - In the VIEWS work area select CONSOLES
 - Select the HSA Estimation Tool
 - Enter the your configuration requirements in the HSA estimation tool panel

z990 - HSA Estimation Tool - SE Workplace



SCZP901: Primary Support Element Workplace (Version 1.8.0)

Views

Groups Exceptions Active Tasks **Console Actions** Task List Books

Hardware Messages
Operating System Messages

View Console Events Support Element Settings HSA Estimation Tool Network Diagnostic Information

HSA estimation tool

File Help

Configuration

☒ dynamic enabled

1 Physical Control Units (PCUs)

64512 Number of devices CSS 0

15 Number of logical partitions CSS 0

64512 Number of devices CSS 1

15 Number of logical partitions CSS 1

Result Window

Estimated HSA size	1794807 kB
HSA granularity	64 MB
Effective HSA size	1792 MB

Calculate Help Close



HSA estimation tool [Maximize] [Resize] [Close]

File Help

Configuration

☒ dynamic enabled

Physical Control Units (PCUs)

Number of devices CSS 0

Number of logical partitions CSS 0

Number of devices CSS 1

Number of logical partitions CSS 1

Result Window

Estimated HSA size	1351037 kB
HSA granularity	64 MB
Effective HSA size	1344 MB

Calculate **Help** **Close**



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z990 Processor Profiles End of Presentation

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