



zCOST Management AutoCPC
An interactive IBM zSeries Server CPC-LPAR Batch Management Tool

AutoCPC Introduction

AutoCPC is a batch orientated z/OS tool that allows Data Centre's to perform IBM zSeries server HMC based CPC and LPAR management functions. This provides a simplified and familiar process for managing CPC and LPAR resources, seamlessly integrating with existing z/OS management processes, such as automation, batch scheduling, security, et al.

Why is AutoCPC Required?

IBM zSeries Mainframe environments are typically large capacity infrastructures comprising many images, sometimes isolating different workload types (E.g. Production, Development, Test, Etc.) and sometimes segregating by business application (E.g. Mission Critical, Non-Mission Critical), or perhaps some other reason. Allocating resources to these various physical and logical infrastructures is not necessarily a static or infrequent activity, and so automating the manipulation of said resources is desirable. From a manual perspective, such manipulation is achievable via HMC Operator Commands, while AutoCPC interfaces with the standard HMC API, allowing for these manual functions to be automated, thus being processed in a timely and accurate manner, as and when required.

AutoCPC Functionality Overview

AutoCPC is an easy-to-install and easy-to-use solution that simplifies zSeries CPC and LPAR management, providing the following primary functions:

- Seamless integration with HMC API
- Standard security management via existing SAF type solutions (E.g. RACF, ACF2, TopSecret)
- Reporting capability via Web browser (E.g. GUI) access to HFS file store
- Optional z/OS STC for the Web Server reporting interface
- AutoCPC can be processed via zLinux and IFL processor, minimizing software costs
- Simple and familiar HMC command structure for easy-to-use operational purposes
- No special skills or training required as pre-existing SLA and operational metrics define product parameters
- No architectural limits or proprietary interface concerns, AutoCPC is only limited by zSeries architectural constraints

Why Use AutoCPC?

AutoCPC is just another Systems Management tool that automates day-to-day operational activities, safeguarding efficient and timely allocation of high-value and mission critical IBM Mainframe resources. Extensive reporting via an easy-to-use GUI facility safeguards that the Data Centre can easily manage their environment, while AutoCPC provides CPC and LPAR HMC activity information, whether initiated by AutoCPC or not. The value of AutoCPC is its elegant design and straightforward architecture, providing a function rich tool, specifically designed to perform a specific role. Ultimately AutoCPC is a cost-efficient solution that eliminates the requirement for manual operations, releasing Operational personnel to perform other duties, while safeguarding that the right IBM zSeries resource is allocated to the correct workload and at the correct times, as defined by the business policy, typically encapsulated within an SLA.

Sample AutoCPC Screen Shot: CPC View

CPC Name	IML Mode	Act Profile	Last Used Profile	IP address	SMA address	Model	Type	Serial Number	Status	CBU	CBU Test Number
CPC1	LPAR	CPC1A0	CPC1A3	192.168.4.40	NETJIK.CPC1	S54	2094	9YV4D	Ok	Yes	5
CPC2	LPAR	CPC2A3	CPC2A0	192.168.4.20	NETJIK.CPC2	S54	2094	AS52B	Ok	Yes	5

Value-4IT Limited
 7 Wright Road, Long Buckby
 Northampton, NN6 7GG
 United Kingdom
 Tel: +44 (0) 845 0579386
 zcost@value-4it.com
 www.value-4it.com



zCOST Management
 15, rue de Trévalle
 44420 La Turballe
 France
 Tel: +33 (0) 2 40 85 48 10
 sales@zcostmanagement.com
 www.zcostmanagement.com



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Sample AutoCPC Screen Shot: LPAR View

zCOST Management																	
CPC		LPAR		AutoCPC Logging		Last Measure											
2		32		19		24/08/17:27											
CPC LPAR	SYSName	OS Type	OS Level	Status	Splex	Weight	Weight Min	Weight Max	DefCapp	IPLed at	LOAD	IEASVM	IEASYS	IPL Addr	IPL Para	Act Profile	Last Used Profile
CPC2-MLPA	MLPA	MVS	01.08	Operating	FLEX001	88	-	-	-	01.45.32 ON 10/12/2008	91	01	00	6810	6372.91	MLPA	-
CPC2-A213	-	-	-	Not Activated	-	10	-	-	-	-	-	-	-	-	-	A213	-
CPC2-ZA01	ZA01	MVS	01.07	Operating	FLEX001	21	-	-	-	07.44.22 ON 03/06/2008	71	07	07	6854	6372.71	ZA01	-
CPC2-VLPA	VLPA	MVS	01.07	Operating	FLEX001	114	-	-	-	08.04.18 ON 03/06/2008	71	07	07	6854	6372.71	VLPA	-
CPC1-PLPA	PLPA	MVS	01.06	Operating	FLEX001	195	-	-	-	07.32.49 ON 08/21/2008	91	01	00	F610	6372.91	PLPA	-
CPC2-LPA	-	-	-	Not Activated	-	1	-	-	-	-	-	-	-	-	-	LPA	-
CPC1-OLPA	OLPA	MVS	01.07	Operating	FLEX001	196	-	-	-	08.14.00 ON 03/06/2008	71	07	07	6860	6372.71	OLPA	-
CPC2-YOF1	-	-	-	Operating	-	8	-	-	-	-	-	-	-	-	-	YOF1	YOF1
CPC2-A107	-	-	-	Not Activated	-	100	-	-	-	-	-	-	-	-	-	A107	-
CPC2-A209	-	-	-	Not Activated	-	100	-	-	-	-	-	-	-	-	-	A209	-
CPC1-ZCF2	-	-	-	Operating	-	0	-	-	-	-	-	-	-	-	-	ZCF2	ZCF2
CPC1-C011	-	-	-	Not Activated	-	100	-	-	-	-	-	-	-	-	-	C011	-
CPC2-LPARE	LPARE	MVS	01.06	Operating	FLEX001	89	-	-	-	08.26.57 ON 08/21/2008	91	01	00	F610	6372.91	LPARE	-
CPC2-ELPA	-	-	-	Not Activated	-	75	-	-	-	-	-	-	-	-	-	ELPA	-
CPC1-CLPA	-	-	-	Not Activated	-	100	-	-	-	-	-	-	-	-	-	CLPA	-
CPC1-C113	-	-	-	Not Activated	-	100	-	-	-	-	-	-	-	-	-	C113	-
CPC1-C012	-	-	-	Not Activated	-	100	-	-	-	-	-	-	-	-	-	C012	-
CPC2-A108	-	-	-	Not Activated	-	100	-	-	-	-	-	-	-	-	-	A108	-
CPC2-ZA05	-	-	-	Not Activated	-	1	-	-	-	-	-	-	-	-	-	ZA05	-
CPC2-A104	-	-	-	Not Activated	-	100	-	-	-	-	-	-	-	-	-	A104	-
CPC1-GLPA	GLPA	MVS	01.05	Operating	FLEX001	145	-	-	-	07.19.07 ON 10/12/2008	91	01	00	F610	6372.91	GLPA	-

Sample AutoCPC Screen Shot: Log View

zCOST Management																	
CPC		LPAR		AutoCPC Logging		Last Measure											
2		32		19		24/08/17:27											
Date/Time	CPC	LPAR	Actions	Parameters	Status	Messages											
17/08/15:30	-	-	CREATE or UPDATE WEB MEMS	-	Successfully	-											
17/08/15:44	CPC2	LPARS	RESET CLEAR	-	FAILED	you are NOT AUTHORIZED to RSTC CPC2 LPARS action.											
17/08/15:46	CPC2	LPARS	RESET CLEAR	-	Successfully	-											
17/08/15:47	CPC2	LPARS	DEACTIVATE	-	Successfully	-											
17/08/15:48	CPC2	LPARS	ACTIVATE	-	Successfully	-											
17/08/15:53	CPC2	LPARS	LOAD	6054 6372ZSM1	Successfully	-											
17/08/15:56	CPC2	LPARS	OPERATOR COMMAND	D IRLINFO	Successfully	-											
17/08/16:16	CPC2	LPARS	RESET CLEAR	-	Successfully	-											
17/08/16:16	CPC2	LPARS	LOAD	6054 6372ZSM1	Successfully	-											
17/08/16:22	CPC2	LPARS	LOAD	6054 6372ZSM1	Successfully	-											
17/08/16:27	CPC2	LPARS	LOAD	6054 6372ZSM1	Successfully	-											
17/08/16:33	CPC2	LPARS	LOAD	6054 6372ZSM1	Successfully	-											
24/08/17:08	-	-	CREATE or UPDATE WEB MEMS	-	Successfully	-											

AutoCPC Command Function Summary

CPC	CPC Command Description	OOCOD	OOCOD Command Description	LPAR	LPAR Command Description
ACPC	CPC Activation	ACOD	COD Activation (Real Mode)	ALPR	LPAR Activation (One LPAR)
DCPC	CPC Deactivation	TCOD	COD Activation (Test Mode)	DLPR	LPAR Deactivation (One LPAR)
ACBU	CBU Activation (Real Mode)	UCOD	COD Activation (Undo)	RSTN	Normal Reset
TCBU	CBU Activation (Test Mode)	ACAP	Add Capacity (CPU, zIIP, Etc.)	RSTC	Clear Reset
DCBU	CBU Deactivation (Undo)	RCAP	Remove Capacity	UPDC	Update Defined Capacity (One LPAR)
				UPWH	Update Weight (One LPAR)
				OPER	Send Operator Command
				LOAD	Load (One LPAR)

Value-4IT Limited
 7 Wright Road, Long Buckby
 Northampton, NN6 7GG
 United Kingdom
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 zcost@value-4it.com
 www.value-4it.com



zCOST Management
 15, rue de Trévally
 44420 La Turballe
 France
 Tel: +33 (0) 2 40 85 48 10
 sales@zcostmanagement.com
 www.zcostmanagement.com