



EPV for zLINUX Plus DataBase Layout

*IT Cost
Under Control*



Supporting
EPV for zLINUX Plus V4

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About this manual

This manual provides a description of all databases, tables and fields provided in EPV for zLINUX+ Version 4.

Changes

Technical changes or additions to the text are indicated by a vertical line to the left of the change.

Terminology

A “view” is an EPV report presented in an HTML page.



1. Introduction

Enterprise Performance Vision for zLINUX Plus (EPV for zLINUX) is a product designed to provide performance analysts, capacity and systems managers with a complete vision of their companies systems and workloads.

EPV for zLINUX allows quick identification of anomalies, performance problems and abnormal resource consumptions; it is also an efficient tool for capacity planning. The product uses auto discovery techniques that are completely transparent to the user, aggregates and correlates the useful metrics, producing valuable information ready to use.

EPV for zLINUX architecture is based on three tiers:

- Data load interface;
- Correlation and aggregation engine;
- HTML pages production engine.

The data load interface is designed to optimize performance and resource consumption during the loading phase, avoiding duplication or data loss.

The correlation and aggregation engine populates a set of databases (DBs), including the metrics used for the reporting phase, aggregated by hour, day and month.

The HTML production engine creates a set of correlated static pages which allow rapid identification of anomalies, performance problems and abnormal resource consumption.

These EPV for zLINUX reports will usually provide all the information needed for Performance Analysis and Capacity Planning activities, however it is sometimes useful to get information directly from the EPV DBs.

The goal of this document is to provide clear and exhaustive documentation of the DBs so that customers can fully exploit the power of EPV for zLINUX.



2. EPV for zLINUX input

EPV for zLINUX uses the following Monitor records:

DOMAIN	RECORD	DESCRIPTION
0, SYSTEM DOMAIN	1	System Data (per processor)
0, SYSTEM DOMAIN	2	Processor Data (per processor)
0, SYSTEM DOMAIN	3	Real Storage Data (Global)
0, SYSTEM DOMAIN	5	Expanded Storage Data (per processor)
0, SYSTEM DOMAIN	16	Cpu Utilization Data in a Logical Partition
0, SYSTEM DOMAIN	17	Physical CPU Utilization for Logical Partition Management
0, SYSTEM DOMAIN	20	Expanded Channel Measurement Data (Per Channel)
1, MONITOR DOMAIN	4	System Configuration Data
1, MONITOR DOMAIN	5	Processor Configuration
1, MONITOR DOMAIN	6	Device Configuration Data
1, MONITOR DOMAIN	7	Memory Configuration Data
1, MONITOR DOMAIN	8	Paging Configuration Data
1, MONITOR DOMAIN	9	Sample Profile
1, MONITOR DOMAIN	17	Expanded Storage Data
3, STORAGE DOMAIN	4	Auxiliary Storage Data
4, USER DOMAIN	3	User Activity Data
4, USER DOMAIN	4	User Interaction Data
6, I/O DOMAIN	3	Device Activity

Figure 1

You can also collect information about processes activity inside zLinux guests.

To collect this information you have to schedule a shell script running the ps command on each zLinux guest you want to control.



3. Databases

Starting from the input data described in the previous chapter EPV for zLINUX, by using auto discovery techniques completely transparent to the user, aggregates and correlates the most useful metrics, producing valuable and ready to use information.

All this information is stored in a set of DBs.

A short description of each DB and its content is provided in this chapter.

LCONF collects information about the hardware and software configuration. The retention period of all the tables in this DB is determined by the **DETAIL** parameter. The default value is 60 days. For the configuration changes tables (**SHRCHA** and **SYSCHA**) the retention period is controlled by the **CCDAYS** parameter. The default value is 720 days.

LWKLA collects information about the workloads aggregated at the hour or at the Monitor interval. The retention period of all the tables in this DB is determined by the **DETAIL** parameter. The default value is 60 days.

LPROC collects information about the zLinux processes aggregated at the hour. The retention period of all the tables in this DB is determined by the **DETAIL** parameter. The default value is 60 days.

LRESA collects information about the resources aggregated at the hour or at the Monitor interval. The retention period of all the tables in this DB is determined by the **DETAIL** parameter. The default value is 60 days.

LTRND collects trend information about workloads and resources aggregated at the hour. The retention period of all the tables in this DB is determined by the **TREND** parameter. The default value is 25 months.



4. Tables

In this chapter a short description of each table's contents is provided.

The LCONF DB includes:

- CHPSUM, channel summary;
- CHPSYS, channel configuration;
- CPUCONF, processor configuration;
- DISKSUM, disk summary;
- IPL, IPL details;
- LASTLOAD, EPV Internal Use;
- LPARCONF, LPAR configuration;
- PGDSCONF, Page or Spool configuration;
- SHRCHA, shared resource configuration changes;
- SYSCHA, system configuration changes;
- SYSCONF, system configuration;
- USERCONF, vmachine configuration;

The LWKLA DB includes:

- CPUWK, vmachine IFL statistics;
- CPUWKDET, vmachine IFL statistics at Monitor interval;
- IFLCP, processor IFL statistics;
- IFLCPDET, processor IFL statistics at Monitor interval;
- LASTLOAD, EPV Internal Use;
- LOAWK, system list summary;
- LOAWKDET, system list summary at Monitor interval;
- MEMWK, vmachine memory statistics;
- MEMWKDET, vmachine memory statistics at Monitor interval;
- SYSCP, system statistics;
- SYSCPDET, system statistics at Monitor interval;
- USRWK, vmachine statistics;
- USRWKDET, vmachine statistics at Monitor interval;

The LPROC DB includes:

- PROCESS, process statistics;

The LRESA DB includes:

- CHANNEL, channel statistics;
- DISK, disks statistics;
- DISKDET, disk summary statistics at Monitor interval;
- LASTLOAD, Internal Use;
- LPAR, LPAR IFL statistics;
- LPARDET, LPAR IFL statistics at Monitor interval;



- MEM, memory statistics;
- MEMDET, memory statistics at Monitor interval;
- PDGS, Page or Spool statistics;
- PGDSDET, Page or Spool statistics at Monitor interval;

The LTRND DB includes:

- FUNDAYH, vmachine IFL statistics;
- SYSDAYH, system statistics;



5. Databases, Tables and Fields

In this chapter the complete list of fields by DB and table is provided. A separate section for each DB is included.

The following columns are documented:

- DB, Database name;
- TABLE, table name;
- VARIABLE, field name;
- K, set to Y if the field is an aggregation key;
- S, set to the sequence number in the sort key;
- T, field type (C=character, N=number);
- LABEL, field label.



5.1. LCONF DataBase

TABLE	VARIABLE	KEY	TYPE	LABEL
CHPSUM	SYSTEM	Y	C	SYSTEM ID
CHPSUM	EPVDATE	Y	N	DATE
CHPSUM	EPVHOUR	Y	N	HOUR
CHPSUM	CHPDESC	Y	C	CHANNEL PATH TYPE DESCRIPTION
CHPSUM	NCHAN		N	NUMBER OF CHANNELS
CHPSUM	STARTIME		C	RMF_INTERVAL_STARTED_TIME
CHPSUM	SYSZONEC		N	GMT OFFSET
CHPSYS	SYSTEM	Y	C	SYSTEM ID
CHPSYS	EPVDATE	Y	N	DATE
CHPSYS	EPVHOUR	Y	N	HOUR
CHPSYS	CHPID	Y	N	CHANNEL PATH ID
CHPSYS	CHPDESC	Y	C	CHANNEL PATH TYPE DESCRIPTION
CHPSYS	CHANSAR		C	CHANNEL PATH SHARED FLAG
CHPSYS	CECSER		C	CEC SERIAL NUMBER
CHPSYS	STARTIME		C	RMF_INTERVAL_STARTED_TIME
CHPSYS	SYSZONEC		N	GMT OFFSET
CHPSYS	DEVNMAX		N	HIGHEST DEVICE ADDRESS
CHPSYS	DEVNMIN		N	LOWEST DEVICE ADDRESS
CHPSYS	NDISK		N	NUMBER OF DISKS
CPUCONF	SYSTEM	Y	C	SYSTEM ID
CPUCONF	EPVDATE	Y	N	DATE
CPUCONF	EPVHOUR	Y	N	HOUR
CPUCONF	PFXIDMDL		C	CEC TYPE
CPUCONF	CECSER		C	CEC SERIAL NUMBER
CPUCONF	PFXCPUAD		N	LOGICAL PROCESSOR ADDRESS
CPUCONF	PFXTYPE		C	CPU ROLE FLAG
CPUCONF	CPUROLE		C	CPU ROLE
CPUCONF	CALUDED		C	VMUSER IF CPU DEDICATED
CPUCONF	PFXIDVER		C	PROCESSOR MODEL VERSION
CPUCONF	BEGINMTR		N	MONITOR STARTED
CPUCONF	SYSZONEC		N	GMT OFFSET
DISKSUM	SYSTEM	Y	C	SYSTEM ID
DISKSUM	EPVDATE	Y	N	DATE
DISKSUM	EPVHOUR	Y	N	HOUR
DISKSUM	NDISK		N	NUMBER OF DISKS



DISKSUM	STARTIME		N	RMF_INTERVAL_STARTED_TIME
DISKSUM	SYSZONEC		N	GMT OFFSET
IPL	SYSTEM	Y	C	ZAAPS_IN_CEC
IPL	EPVDATE	Y	N	ZIIPS_IN_CEC
IPL	EPVHOUR	Y	N	CPUS_IN_CEC
IPL	BEGINMTR		N	DATE
IPL	HCPCPEID		C	OS LEVEL
IPL	SYSWMVOL		C	WARMSTSRV VOLSER
IPL	SYSCKVOL		C	CHECKPOINT VOLSER
IPL	SYMMODL		C	CEC MODEL
IPL	IPLDAY	Y	N	IPL DATE
IPL	IPLTIME	Y	N	IPL TIME
IPL	SYSZONEC		N	GMT OFFSET
LASTLOAD	SYSTEM		C	SYSTEM ID
LASTLOAD	EPVDATE		N	DATE
LPARCONF	SYSTEM	Y	C	SYSTEM ID
LPARCONF	EPVDATE	Y	N	DATE
LPARCONF	EPVHOUR	Y	N	HOUR
LPARCONF	LCUPNAME		C	LPAR NAME
LPARCONF	LCXCPTYP		C	CP IDENTIFICATION
LPARCONF	LCPUDED		C	CP DEDICATED FLAG
LPARCONF	LCPUWAIT		C	WAIT COMPLETION FLAG
LPARCONF	LCUCWGHT		N	LPAR CP INITIAL WEIGHT
LPARCONF	CALPTIS		C	PARTITION FETCHED LOGICAL CPU UTILIZATION DATA FLAG
LPARCONF	STARTIME		N	RMF_INTERVAL_STARTED_TIME
LPARCONF	RSYSTEM		C	REPORTING SYSTEM ID
LPARCONF	SYSZONEC		N	GMT OFFSET
LPARCONF	NCPU		N	CF_DUMP_SPACE_FREE
PGDSCONF	SYSTEM	Y	C	SYSTEM ID
PGDSCONF	EPVDATE	Y	N	DATE
PGDSCONF	EPVHOUR	Y	N	HOUR
PGDSCONF	RDEVSID	Y	C	HOST SUBCHANNEL ID
PGDSCONF	RDEVSER	Y	C	LOGICAL VOLUME ID
PGDSCONF	CALTYPE	Y	C	TAPE PAGE SPOOL FLAG
PGDSCONF	RDEVDEV		C	DEVICE ADDRESS
PGDSCONF	RDEVUID		C	CONTROL UNIT ID
PGDSCONF	RDEVCMN		C	CONTROL UNIT MODEL
PGDSCONF	RDEVVID		C	DEVICE TYPE



PGDSCONF	CHP1		N	1ST CHANNEL
PGDSCONF	CHP2		C	2ND CHANNEL
PGDSCONF	CHP3		C	3RD CHANNEL
PGDSCONF	CHP4		C	4TH CHANNEL
PGDSCONF	CHP5		C	5TH CHANNEL
PGDSCONF	CHP6		C	5TH CHANNEL
PGDSCONF	CHP7		C	7TH CHANNEL
PGDSCONF	CHP8		C	8TH CHANNEL
PGDSCONF	FBA		C	FBA DEVICE FLAG
PGDSCONF	SLOTS		N	PAGE SPOOL SLOTS
PGDSCONF	STARTIME		N	RMF_INTERVAL_STARTED_TIME
PGDSCONF	SYSZONEC		N	GMT OFFSET
SHRCA	EPVDATE	Y	N	DATE
SHRCA	EPVHOUR	Y	N	HOUR
SHRCA	AREA	Y	C	AREA WHERE CHANGE OCCURRED
SHRCA	CHVAR	Y	C	EPV INTERNAL USE
SHRCA	OBJECT	Y	C	SHARED CHANGES OBJECT
SHRCA	PARAM	Y	C	SHARED CHANGES PARAMETER
SHRCA	NEWVAL		C	VARIABLE NEW VALUE
SHRCA	OLDVAL		C	VARIABLE OLD VALUE
SHRCA	ST		C	EPV INTERNAL USE
SYSCHA	SYSTEM	Y	C	SYSTEM_ID
SYSCHA	EPVDATE	Y	N	DATE
SYSCHA	EPVHOUR	Y	N	HOUR
SYSCHA	AREA	Y	C	AREA WHERECHANGE OCCURRED
SYSCHA	CHVAR	Y	C	EPV INTERNAL USE
SYSCHA	OBJECT	Y	C	SYSTEM CHANGES OBJECT
SYSCHA	PARAM	Y	C	SYSTEM CHANGES PARAMETER
SYSCHA	NEWVAL		C	VARIABLE NEW VALUE
SYSCHA	OLDVAL		C	VARIABLE OLD VALUE
SYSCHA	ST		C	EPV INYTERNAL USE
SYSCONF	SYSTEM	Y	C	SYSTEM
SYSCONF	EPVDATE	Y	N	DATE
SYSCONF	EPVHOUR	Y	N	HOUR
SYSCONF	PFXIDMDL		C	CEC TYPE
SYSCONF	CECSER		C	CEC SERIAL NUMBER
SYSCONF	CPCMODEL		C	CEC MODEL
SYSCONF	MIPS		N	CEC IFL MIPS



SYSCONF	NCPU		N	LPAR ACTIVE IFL
SYSCONF	NCECCP		N	CEC IFL MIPS
SYSCONF	LCUPNAME		C	LPAR NAME
SYSCONF	LCXCPTYP		C	CPIDENTIFICATION
SYSCONF	LCPUDED		C	CP DEDICATED FLAG
SYSCONF	LCPUWAIT		C	WAIT COMPLETION FLAG
SYSCONF	LCUCWGHT		N	LPAR CP INITIAL WEIGHT
SYSCONF	STARTIME		N	RMF INTERVAL STARTED TIME
SYSCONF	SYSZONEC		N	GMT OFFSET
SYSCONF	SYSXTSIZ		N	INSTALLED EXPANDED STORAGE
SYSCONF	XSTOTALB		N	ONLINE EXPANDED STORAGE
SYSCONF	SYSGTORS		N	INSTALLED REAL STORAGE
SYSCONF	RSAOFFLN		N	OFFLINE REAL STORAGE
SYSCONF	RSAGSTOR		N	ONLINE REAL STORAGE
USERCONF	SYSTEM	Y	C	FCD_SERIAL_NUMBER
USERCONF	EPVDATE	Y	N	DATE
USERCONF	EPVHOUR	Y	N	HOUR
USERCONF	VMDUSER	Y	C	VM USER ID
USERCONF	VMDACTNO	Y	C	USER ACCOUNT ID
USERCONF	CALMODE	Y	C	VM ARCHITECTURE FLAG
USERCONF	VMDSTYPE	Y	C	VM STORAGE TYPE FLAG
USERCONF	NCPU		N	VMACHINE ACTIVE IFL
USERCONF	VMDBASH		N	AVSOLUTE SHARE PCT
USERCONF	VMDRELSH		N	RELATIVE SHARE PCT
USERCONF	VMDQDSPU		C	QUICK DISPATCH FLAG
USERCONF	VMDMXRVP		N	RESERVED STORAGE SIZE
USERCONF	IUCMXCN		N	MAX IUCV
USERCONF	ASCDEFSZ		N	DEFINED STORAGE SIZE
USERCONF	STARTIME		N	RMF INTERVAL STARTED TIME
USERCONF	SYSZONEC		N	GMT OFFSET



5.2. LPROC DataBase

TABLE	VARIABLE	KEY	TYPE	LABEL
PROCESS	LNXYST	Y	C	LINUX SYSTEM
PROCESS	EPVDATE		N	DATE
PROCESS	EPVHOUR		N	HOUR
PROCESS	PRCUSER	Y	N	UNIX USER ID
PROCESS	COMM	Y	C	COMMAND
PROCESS	DATETIME	Y	N	DATETIME
PROCESS	_TIME_		N	INTERVAL START
PROCESS	DURATION		N	INTERVAL DURATION
PROCESS	PCT		N	CPU TIME PCT
PROCESS	VAL		N	CPU TIME



5.3. LWKLA DataBase

TABLE	VARIABLE	KEY	TYPE	LABEL
CPUWK	SYSTEM	Y	C	SYSTEM
CPUWK	EPVDATE	Y	N	DATE
CPUWK	EPVHOUR	Y	N	HOUR
CPUWK	_FUNCTION_	Y	C	EPV FUNCTION
CPUWK	VMDUSER	Y	C	VM USER ID
CPUWK	USRMIPS		N	MIPS CONSUMED BY USER
CPUWK	VMMIPS		N	MIPS CONSUMED BY VM
CPUWK	TOTMIPS		N	MIPS CONSUMED BY USER+VM
CPUWK	VMDVTIME		N	CPU TIME CONSUMED BY USER
CPUWK	VMDCTIME		N	CPU TIME CONSUMED BY VM
CPUWK	STARTIME		N	RMF INTERVAL STARTED TIME
CPUWK	_INTERVAL_		N	INTERVAL DURATION
CPUWK	SYSZONEC		N	GMT OFFSET
CPUWKDET	EPVDATE	Y	N	DATE
CPUWKDET	EPVMIN	Y	N	INTERVAL START
CPUWKDET	FUNCTION	Y	C	EPV FUNCTION
CPUWKDET	SYSTEM	Y	C	SYSTEM
CPUWKDET	TOTMIPS		N	MIPS CONSUMED BY USER+VM
CPUWKDET	USRMIPS		N	MIPS CONSUMED BY USER
CPUWKDET	VMDCTIME		N	CPU TIME CONSUMED BY VM
CPUWKDET	VMDUSER	Y	C	VM USER ID
CPUWKDET	VMDVTIME		N	CPU TIME CONSUMED BY USER
CPUWKDET	VMMIPS		N	MIPS CONSUMED BY VM
IFLCP	SYSTEM	Y	C	SYSTEM ID
IFLCP	EPVDATE	Y	N	DATE
IFLCP	EPVHOUR	Y	N	HOUR
IFLCP	LCUCPUID	Y	N	LOGICAL PROCESSOR ADDRESS
IFLCP	LCUACTM		N	DISPATCH TIME
IFLCP	TOTDUR		N	TOTAL DURATION IN THIS HOUR
IFLCP	STARTIME		N	RMF INTERVAL STARTED TIME
IFLCP	SYSZONEC		N	GMT OFFSET
IFLCPDET	SYSTEM	Y	C	SYSTEM ID
IFLCPDET	EPVDATE	Y	N	DATE
IFLCPDET	EPVMIN	Y	N	INTERVAL START
IFLCPDET	LCUCPUID	Y	N	LOGICAL PROCESSOR ADDRESS



IFLCPDET	LCUACTM		N	DISPATCH TIME
IFLCPDET	_INTERVAL_		N	INTERVAL DURATION
IFLCPDET	EPVHOUR		N	HOUR
IFLCPDET	STARTIME		N	RMF INTERVAL STARTED TIME
IFLCPDET	SYSZONEC		N	GMT OFFSET
LASTLOAD	EPVDATE		N	DATE
LASTLOAD	SYSTEM		C	SYSTEM ID
LOAWK	SYSTEM	Y	C	SYSTEM ID
LOAWK	EPVDATE	Y	N	DATE
LOAWK	EPVHOUR	Y	N	HOUR
LOAWK	CALBASE		C	VMDBK BASE FLAG
LOAWK	VMDLIST		C	SCHEDULING LIST TYPE
LOAWK	NUM		N	NUMBER OF GUESTS BY LIST
LOAWK	_INTERVAL_		N	INTERVAL DURATION
LOAWK	STARTIME		N	RMF INTERVAL STARTED TIME
LOAWK	SYSZONEC		N	GMT OFFSET
LOAWKDET	SYSTEM	Y	C	SYSTEM ID
LOAWKDET	EPVDATE	Y	N	DATE
LOAWKDET	EPVMIN	Y	N	INTERVAL START
LOAWKDET	CALBASE		C	VMDBK BASE FLAG
LOAWKDET	VMDSLIST		C	SCHEDULING LIST TYPE
LOAWKDET	NUM		N	NUMBER OF GUESTS BY LIST
LOAWKDET	STARTIME		N	RMF INTERVAL STARTED TIME
LOAWKDET	_INTERVAL_		N	INTERVAL DURATION
LOAWKDET	SYSZONEC		N	SOFTWARE_SU_SEC
MEMWKL	SYSTEM	Y	C	SYSTEM ID
MEMWKL	EPVDATE	Y	N	DATE
MEMWKL	EPVHOUR	Y	N	HOUR
MEMWKL	VMDUSER	Y	C	VM USER ID
MEMWKL	PFRATE		N	PAGE FAULT RATE
MEMWKL	VMDWSSPR		N	WORKING SET IN BYTES
MEMWKL	VMDCTPRS		N	MEMORY RESIDENT IN BYTES
MEMWKL	VMDCTLKP		N	MEMORY LOCKED IN BYTES
MEMWKL	STARTIME		N	RMF INTERVAL STARTED TIME
MEMWKL	_INTERVAL_		N	INTERVAL DURATION
MEMWKL	SYSZONEC		N	GMT OFFSET
MEMWKDET	SYSTEM	Y	C	SYSTEM ID
MEMWKDET	EPVDATE	Y	N	DATE



MEMWKDET	EPVMIN	Y	N	INTERVAL START
MEMWKDET	VMDUSER	Y	C	VM USER ID
MEMWKDET	PFRATE		N	PAGE FAULT RATE
MEMWKDET	VMDWSSPR		N	WORKING SET IN BYTES
MEMWKDET	VMDCTPRS		N	MEMORY RESIDENT IN BYTES
MEMWKDET	VMDCTLKP		N	MEMORY LOCKED IN BYTES
MEMWKDET	STARTIME		N	RMF INTERVAL STARTED TIME
MEMWKDET	_INTERVAL_		N	INTERVAL DURATION
MEMWKDET	EPVHOUR		N	HOUR
MEMWKDET	SYSZONEC		N	GMT OFFSET
SYSCP	SYSTEM	Y	N	SYSTEM ID
SYSCP	EPVDATE	Y	N	DATE
SYSCP	EPVHOUR	Y	N	HOUR
SYSCP	STARTIME		C	RMF INTERVAL STARTED TIME
SYSCP	SYSZONEC		C	GMT OFFSET
SYSCP	NCPU		N	LPAR ACTIVE IFL
SYSCP	NCECCP		C	IFLS IN CEC
SYSCP	MIPS		N	MIPS
SYSCP	TOTDUR		N	TOTAL DURATION
SYSCP	SYSCR		C	SYSTEM CAPTURE RATIO
SYSCP	GUESTCR		N	GUEST CAPTURE RATIO
SYSCP	SYSPCT		N	SYSTEM CPU PCT
SYSCP	GUESTPCT		N	GUEST CPU PCT
SYSCP	USERCR		C	USER CAPTURE RATIO
SYSCP	LPARPCT		C	LPARPCT
SYSCP	USERPCT		N	DATE
SYSCPDET	SYSTEM	Y	C	SYSTEM
SYSCPDET	EPVDATE	Y	N	DATE
SYSCPDET	EPVMIN	Y	N	INTERVAL START
SYSCPDET	_INTERVAL_		N	INTERVAL DURATION
SYSCPDET	EPVHOUR		N	HOUR
SYSCPDET	STARTIME		N	RMF INTERVAL STARTED TIME
SYSCPDET	SYSZONEC		N	GMT OFFSET
SYSCPDET	LPARPCT		N	LPAR CPU PCT
SYSCPDET	SYSPCT		N	SYSTEM CPU PCT
SYSCPDET	GUESTPCT		N	GUEST CPU PCT
SYSCPDET	USERPCT		N	USER CAPTURE RATIO
SYSCPDET	SYSCR		N	SYSTEM CAPTURE RATIO



SYSCPDET	GUESTCR		N	GUEST CAPTURE RATIO
SYSCPDET	USERCR		N	USER CAPTURE RATIO
USRWK	SYSTEM	Y	C	SYSTEM ID
USRWK	EPVDATE	Y	N	DATE
USRWK	EPVHOUR	Y	N	HOUR
USRWK	VMDUSER	Y	C	VM USER ID
USRWK	HFQUCT		N	SAMPLES
USRWK	HFDORM		N	PCT DORMANT LIST
USRWK	HFNODORM		N	PCT NODORMANT LIST
USRWK	HFCPURN		N	PCT DISPATCH RUNNING
USRWK	HFCPUWT		N	PCT CPU WAIT
USRWK	HFLOAD		N	PCT LOAD LIST
USRWK	HFWTPAG		N	PCT PAGE WAIT
USRWK	HFIOWT		N	PCT I/O WAIT
USRWK	HFSIMWT		N	PCT SIMULATE WAIT
USRWK	HFTIDL		N	PCT IDLE NOT SVM
USRWK	HFCFWT		N	PCT CONSOLE FUNCTION WAIT
USRWK	HFTSVM		N	PCT IDLE SVM
USRWK	HFESVM		N	PCT ELIGIBLE SVM
USRWK	HFDSVM		N	PCT DORMANT SVM
USRWK	HFOACT		C	PCT ASYNC I/O
USRWK	HFLLIST		N	PCT LIMIT LIST
USRWK	HFPGACT		N	PCT PAGE FAULT NOT IN PAGE WAIT
USRWK	HFOTHR		N	PCT IN OTHER
USRWK	STARTIME		N	RMF INTERVAL STARTED TIME
USRWK	_INTERVAL_		N	INTERVAL DURATION
USRWK	SYSZONEC		N	GMT OFFSET
USRWKDET	SYSTEM	Y	N	SYSTEM
USRWKDET	EPVDATE	Y	N	DATE
USRWKDET	EPVMIN	Y	N	INTERVAL START
USRWKDET	VMDUSER	Y	C	VM USER ID
USRWKDET	HFQUCT		N	SAMPLES
USRWKDET	HFDORM		N	PCT DORMANT LIST
USRWKDET	HFNODORM		N	PCT NODORMANT LIST
USRWKDET	HFCPURN		N	PCT DISPATCH RUNNING
USRWKDET	HFCPUWT		N	PCT CPU WAIT
USRWKDET	HFLOAD		N	PCT LOAD LIST
USRWKDET	HFWTPAG		N	PCT PAGE WAIT



USRWKDET	HFIOWT		N	PCT I/O WAIT
USRWKDET	HFSIMWT		N	PCT SIMULATE WAIT
USRWKDET	HFTIDL		N	PCT IDLE NOT SVM
USRWKDET	HFCFWT		N	PCT CONSOLE FUNCTION WAIT
USRWKDET	HFTSVM		N	PCT IDLE SVM
USRWKDET	HFESVM		N	PCT ELIGIBLE SVM
USRWKDET	HFDSVM		N	PCT DORMANT LIST
USRWKDET	HFIOACT		N	PCT ASYNC I/O
USRWKDET	HFLLIST		N	PCT LIMIT LIST
USRWKDET	HFPGACT		N	PCT PAGE FAULT NOT IN PAGE WAIT
USRWKDET	HFOTHR		N	PCT IN OTHER
USRWKDET	STARTIME		N	RMF STARTED INTERVAL TIME
USRWKDET	_INTERVAL_		N	INTERVAL DURATION
USRWKDET	EPVHOUR		N	HOUR
USRWKDET	SYSZONEC		N	GMT OFFSET



5.4. LRESA DataBase

TABLE	VARIABLE	KEY	TYPE	LABEL
CHANNEL	SYSTEM	Y	C	SYSTEM ID
CHANNEL	EPVDATE	Y	N	DATE
CHANNEL	EPVHOUR	Y	N	HOUR
CHANNEL	CHPID	Y	N	CHANNEL PATH ID
CHANNEL	CHPDESC	Y	C	CHANNEL PATH TYPE DESCRIPTION
CHANNEL	TYPEC	Y	C	DISK CHP FLAG
CHANNEL	CECSER		C	CEC SERIAL NUMBER
CHANNEL	SMF73CMG		N	CHANNEL MEASUREMENT GROUP
CHANNEL	SYSZONEC		N	GMT OFFSET
CHANNEL	STARTIME		N	RMF STARTED INTERVAL TIME
CHANNEL	_INTERVAL_		N	INTERVAL DURATION
CHANNEL	PNCHANBY		N	CHANNEL BUSY PCT LPAR
CHANNEL	PBUSBY		N	CHANNEL MEASUREMENT GROUP
CHANNEL	SMF73PWU		N	WRITE BYTE PER SEC
CHANNEL	SMF73PRU		N	READ BYTES PER SEC
DISK	SYSTEM	Y	C	SYSTEM_ID
DISK	EPVDATE	Y	N	DATE
DISK	EPVHOUR	Y	N	HOUR
DISK	RDEVSID	Y	C	HOST SUBCHANNEL ID
DISK	RDEVSER	Y	C	LOGICAL VOLUME ID
DISK	SSCH		N	TOTAL SSCH
DISK	PNDMS		N	TOTAL PENDING TIME
DISK	DISMS		N	TOTAL DISCONNECT TIME
DISK	CONMS		N	TOTAL CONNECT TIME
DISK	IOQMS		N	TOTAL IOSQ TIME
DISK	RDEVMCIA		N	SSCH AVOIDED DUE TO MINIDISK
DISK	RDEVLCNT		N	NUMBER OF MINIDISKS DEFINED
DISK	TOTDUR		N	TOTAL DURATION IN THIS HOUR
DISK	RDEVDEV		C	DEVICE ADDRESS
DISK	RDEVUID		C	CONTROL UNIT ID
DISK	RDEVCMN		C	CONTROL UNIT MODEL
DISK	STARTIME		N	RMF STARTED INTERVAL TIME
DISK	SYSZONEC		N	GMT OFFSET
DISKDET	SYSTEM		C	SYSTEM ID
DISKDET	EPVDATE		N	DATE
DISKDET	EPVMIN		N	INTERVAL START



DISKDET	SSCH		N	TOTAL SSCH
DISKDET	PNDMS		N	TOTAL PENDING TIME
DISKDET	DISMS		N	TOTAL DISCONNECT TIME
DISKDET	CONMS		C	TOTAL CONNECT TIME
DISKDET	IOQMS	Y	C	TOTAL IOSQ TIME
DISKDET	EPVHOUR	Y	N	HOUR
DISKDET	STARTIME	Y	N	RMF INTERVAL STARTED TIME
DISKDET	SYSZONEC	Y	N	GMT_OFFSET
LASTLOAD	EPVDATE		N	DATE
LASTLOAD	SYSTEM		N	SYSTEM ID
LPAR	SYSTEM	Y	C	SYSTEM
LPAR	EPVDATE	Y	N	DATE
LPAR	EPVHOUR	Y	N	HOUR
LPAR	LCUPNAME	Y	C	LPAR NAME
LPAR	LCXCPTYP		C	CP IDENTIFICATION
LPAR	LCUCACTM		N	DISPATCH TIME
LPAR	CALPTIS		C	LPAR COLLECTOR FLAG
LPAR	STARTIME		N	RMF INTERVAL STARTED TIME
LPAR	SYSZONEC		N	GMT OFFSET
LPAR	CECSER		C	CEC SERIAL NUMBER
LPAR	MIPS		N	MIPS
LPAR	NCPU		N	LPAR ACTIVE IFL
LPAR	NCECCP		N	IFLS IN CEC
LPAR	TOTDUR		N	TOTAL DURATION IN THIS HOUR
LPAR	LPARMIPS		N	LPAR CPU MIPS USED
LPARDET	SYSTEM	Y	C	SYSTEM ID
LPARDET	EPVDATE	Y	N	DATE
LPARDET	EPVHOUR		N	HOUR
LPARDET	EPVMIN	Y	N	INTERVAL START
LPARDET	LCUPNAME		C	LPAR_NAME
LPARDET	LCXCPTYP		C	CP IDENTIFICATION
LPARDET	CALPTIS		C	LPAR COLLECTOR FLAG
LPARDET	STARTIME		N	RMF INTERVAL STARTED TIME
LPARDET	SYSZONEC		N	GMT OFFSET
LPARDET	LCUCACTM		N	DISPATCH_TIME
LPARDET	_INTERVAL_		N	INTERVAL DURATION
LPARDET	CECSER		C	CEC SERIAL NUMBER
LPARDET	MIPS		N	CEC IFL MIPS
LPARDET	NCPU		N	LPAR ACTIVE IFL
LPARDET	NCECCP		N	IFLS IN CEC



LPARDET	LPARMIPS		N	LPAR CPU MIPS USED
MEM	SYSTEM	Y	N	SYSTEM
MEM	EPVDATE	Y	N	DATE
MEM	EPVHOUR	Y	N	HOUR
MEM	PLSPIOPR		N	SYSTEM PAGING READS RATE
MEM	STARTIME		N	RMF INTERVAL STARTED TIME
MEM	SYSZONEC		N	GMT OFFSET
MEM	PFXPGIN		N	FASTPATH PAGEINS RATE
MEM	PLSPGOUT		N	PAGEOUT RATE
MEM	RSALGFRM		N	USEABLE FRAMES BELOW 2GB
MEM	RSANONPG		N	NOT PAGEABLE FRAMES
MEM	RSAPGABL		N	PAGEABLE FRAMES
MEM	VMDCTPRS		N	MEMORY RESIDENT IN BYTES
MEM	SYSGTORS		N	INSTALLED REAL STORAGE
MEMDET	SYSTEM	Y	C	SYSTEM ID
MEMDET	EPVDATE	Y	N	DATE
MEMDET	EPVMIN	Y	N	INTERVAL START
MEMDET	PLSPIOPR		N	SYSTEM PAGING READS RATE
MEMDET	PLSPIOPW		N	SYSTEM PAGING WRITES RATE
MEMDET	STARTIME		N	RMF INTERVAL STARTED TIME
MEMDET	EPVHOUR		N	HOUR
MEMDET	_INTERVAL_		N	INTERVAL DURATION
MEMDET	SYSZONEC		N	GMT OFFSET
MEMDET	PFXPGIN		N	FASTPATH PAGEINS RATE
MEMDET	PLSPGIN		N	NOT FASTPATH PAGEINS RATE
MEMDET	PLSPGOUT		N	PAGEOUT RATE
MEMDET	RSALGFRM		N	USEABLE FRAMES BELOW 2GB
MEMDET	RSANONPG		N	NOT PAGEABLE FRAMES
MEMDET	RSAPGABL		N	PAGEABLE FRAMES
MEMDET	VMDCTPRS		N	MEMORY RESIDENT IN BYTES
PGDS	SYSTEM	Y	C	SYSTEM
PGDS	EPVDATE	Y	N	DATE
PGDS	EPVHOUR	Y	N	HOUR
PGDS	RDEVSER		C	LOGICAL VOLUME ID
PGDS	RDEVSID		C	HOST SUBCHANNEL ID
PGDS	CALTYPE	Y	C	TYPE PAGE SPOOL FLAG
PGDS	FBA		C	FBA DEVICE FLAG
PGDS	SLOTS		N	PAGE SPOOL SLOTS
PGDS	_RSA_		N	EPV INTERNAL USE
PGDS	RDEVDEV		C	DEVICE ADDRESS



PGDS	EXPCTPRD		N	PAGE READS
PGDS	EXPCTPWR		N	PAGE WRITES
PGDS	EXPCTSRD	Y	N	SPOOL READS
PGDS	EXPCTSWR	Y	N	SPOOL WRITES
PGDS	USED		N	PAGE SPOOL USED
PGDS	_USAGE_		N	PCT PAGE SPOOL USAGE
PGDS	STARTIME		N	RMF INTERVAL STARTED TIME
PGDS	SYSZONEC		N	GMT OFFSET
PGDSDET	SYSTEM	Y	C	SYSTEM ID
PGDSDET	EPVDATE	Y	N	DATE
PGDSDET	EPVMIN	Y	N	INTERVAL START
PGDSDET	CALTYPE	Y	C	TYPE PAGE SPOOL FLAG
PGDSDET	SLOTS		N	PAGE SPOOL SLOTS
PGDSDET	USED		N	PAGE SPOOL USED
PGDSDET	PERCSLOT		N	PCT SLOTS USED
PGDSDET	EXPCTPRD		N	PAGE READS
PGDSDET	EXPCTPWR		N	PAGE WRITES
PGDSDET	EXPCTSRD		N	SPOOL READS
PGDSDET	EXPCTSWR		N	SPOOL WRITES
PGDSDET	EPVHOUR		N	HOUR
PGDSDET	STARTIME		N	RMF INTERVAL STARTED TIME
PGDSDET	SYSZONEC		N	GMT OFFSET



5.5. LTRND DataBase

TABLE	VARIABLE	KEY	TYPE	LABEL
FUNDAYH	SYSTEM	Y	C	SYSTEM ID
FUNDAYH	EPVDATE	Y	N	DATE
FUNDAYH	EPVHOUR	Y	N	HOUR
FUNDAYH	_FUNCTION_	Y	C	EPV FUNCTION
FUNDAYH	VM USER ID	Y	C	VM USER ID
FUNDAYH	TOTMIPS		N	MIPS CONSUMED BY USER+VM
FUNDAYH	USRMIPS		N	MIPS CONSUMED BY VM
FUNDAYH	VMMIPS		N	MIPS CONSUMED BY VM
FUNDAYH	VMDCTIME		N	CPU TIME CONSUMED BY VM
FUNDAYH	VMDVTIME		N	CPU TIME CONSUMED BY USER
FUNDAYH	STARTIME		N	RMF INTERVAL STARTED TIME
FUNDAYH	SYSZONEC		N	GMT OFFSET
SYSDAYH	SYSTEM	Y	C	SYSTEM
SYSDAYH	EPVDATE	Y	N	DATE
SYSDAYH	EPVHOUR	Y	N	HOUR
SYSDAYH	LPARMIPS		N	LPAR CPU MIPS USED
SYSDAYH	STARTIME		N	RMF INTERVAL STARTED TIME
SYSDAYH	SYSZONEC		N	GMT OFFSET



6. Customer support

For any technical problems or questions about EPV for zLINUX please email:

epv.support@epvtech.com

For any other issue about EPV for zLINUX please email:

epv.info@epvtech.com



Related documentation

The following manuals complement the information provided in this manual:

- *EPV zParser V11 Installation and Customization*
- *EPV for zLINUX Plus V4 Installation and Customization*
- *EPV for zLINUX V4 List of Views*
- *EPV for zLINUX V4 Preparing Input for a Demo*
- *EPV V10 User Interface*
- *EPV Plus V11 Operations Guide*