



# EPV for zLINUX Database Layout



Supporting  
**EPV for zLINUX V15**

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## About this manual

This manual provides a description of all databases, tables and fields provided in EPV for zLINUX Version 15.

## 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 (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 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 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 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.



## 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	Extended Channel Measurement Data (Per Channel)
1, MONITOR DOMAIN	4	System Configuration Data
1, MONITOR DOMAIN	5	Processor Configuration
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
1, MONITOR DOMAIN	28	CPU Pool Configuration
3, STORAGE DOMAIN	4	Auxiliary Storage Management
4, USER DOMAIN	3	User Activity Data
4, USER DOMAIN	4	User Interaction Data
5, USER DOMAIN	13	Measurement Facility Counters
6, I/O DOMAIN	3	Device Activity



### 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.

**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.

**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.

**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;
- POOLCONF, IFL pooling configuration.

The LPROC DB includes:

- PROCESS, process statistics.

The LWKLA DB includes:

- CPUWK, vmachine IFL statistics;
- CPUWKDET, vmachine IFL statistics at Monitor interval;
- IFLCP, IFL processor statistics;
- IFLCPDET, IFL processor 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 LRESA DB includes:

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





- MEM, memory statistics;
- MEMDET, memory statistics at Monitor interval;
- PGDS, Page or Spool statistics;
- PGDSDET, Page or Spool statistics at Monitor interval;
- SIODAYH, disks statistics at system level;
- CPCTR, IFL Measurement Facility counters;
- CPCTRDET, IFL Measurement Facility counters at Monitor interval.

The LTRND DB includes:

- FUNDAYH, vmachine IFL statistics;
- MEMDAYH, memory statistics;
- SYSDAYH, system statistics;
- SIODAYH, disks statistics at system level.



## 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

DB	TABLE	VARIABLE	K	S	T	LABEL
LCONF	CHPSUM	CHPDESC	Y	4	C	CHANNEL_PATH_TYPE_DESCRIPTION
LCONF	CHPSUM	EPVDATE	Y	2	N	DATE
LCONF	CHPSUM	EPVHOUR	Y	3	N	HOUR
LCONF	CHPSUM	NCHAN			N	NUMBER_OF_CHANNELS
LCONF	CHPSUM	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	CHPSYS	CHANSHAR			C	CHANNEL_PATH_SHARED_FLAG
LCONF	CHPSYS	CHPDESC	Y	4	C	CHANNEL_PATH_TYPE_DESCRIPTION
LCONF	CHPSYS	CHPID	Y	5	N	CHANNEL_PATH_ID
LCONF	CHPSYS	DEVNMAX			N	HIGHEST_DEVICE_ADDRESS
LCONF	CHPSYS	DEVNMIN			N	LOWEST_DEVICE_ADDRESS
LCONF	CHPSYS	EPVDATE	Y	2	N	DATE
LCONF	CHPSYS	EPVHOUR	Y	3	N	HOUR
LCONF	CHPSYS	NDISK			N	NUMBER_OF_DISKS
LCONF	CHPSYS	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	CPUCONF	CALUDED			C	VMUSER_IF_CPU_DEDICATED
LCONF	CPUCONF	CECSER			C	CEC_SERIAL_NUMBER
LCONF	CPUCONF	CPUROLE			C	CPU_ROLE
LCONF	CPUCONF	EPVDATE	Y	2	N	DATE
LCONF	CPUCONF	EPVHOUR	Y	3	N	HOUR
LCONF	CPUCONF	PFXCPUAD			N	LOGICAL_PROCESSOR_ADDRESS
LCONF	CPUCONF	PFXIDMDL			C	CEC_TYPE
LCONF	CPUCONF	PFXTYPE			C	CPU_ROLE_FLAG
LCONF	CPUCONF	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	DISKSUM	EPVDATE	Y	2	N	DATE
LCONF	DISKSUM	EPVHOUR	Y	3	N	HOUR
LCONF	DISKSUM	NDISK			N	NUMBER_OF_DISKS
LCONF	DISKSUM	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	IPL	EPVDATE	Y	1	N	DATE
LCONF	IPL	EPVHOUR	Y	2	N	HOUR
LCONF	IPL	HCPCPEID			C	OS_LEVEL
LCONF	IPL	IPLDAY	Y	4	N	IPL_DATE
LCONF	IPL	IPLTIME	Y	5	N	IPL_TIME
LCONF	IPL	SYSCKVOL			C	CHECKPOINT_VOLSER
LCONF	IPL	SYMMODL			C	CEC_MODEL
LCONF	IPL	SYSTEM	Y	3	C	SYSTEM_ID
LCONF	IPL	SYSWMVOL			C	WARMSTART_VOLSER
LCONF	IPL	SYSZONE			N	GMT_OFFSET
LCONF	LASTLOAD	EPVDATE	Y	2	N	DATE
LCONF	LASTLOAD	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	LPARCONF	EPVDATE	Y	2	N	DATE
LCONF	LPARCONF	EPVHOUR	Y	3	N	HOUR
LCONF	LPARCONF	LCPUDED			C	CP_DEDICATED_FLAG
LCONF	LPARCONF	LCPUWAIT			C	WAIT_COMPLETION_FLAG
LCONF	LPARCONF	LCUCWGHT			N	LPAR_CP_INITIAL_WEIGHT
LCONF	LPARCONF	LCUPNAME			C	LPAR_NAME



LCONF	LPARCONF	LCXCPTYP			C	CP_IDENTIFICATION
LCONF	LPARCONF	NCPU			N	LPAR_ACTIVE_IFL
LCONF	LPARCONF	RSYSTEM			C	REPORTING_SYSTEM_ID
LCONF	LPARCONF	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	PGDSCONF	CALTYPE	Y	6	C	TYPE_PAGE_SPOOL_FLAG
LCONF	PGDSCONF	CHP1			C	1ST_CHANNEL
LCONF	PGDSCONF	CHP2			C	2ND_CHANNEL
LCONF	PGDSCONF	CHP3			C	3RD_CHANNEL
LCONF	PGDSCONF	CHP4			C	4TH_CHANNEL
LCONF	PGDSCONF	CHP5			C	5TH_CHANNEL
LCONF	PGDSCONF	CHP6			C	6TH_CHANNEL
LCONF	PGDSCONF	CHP7			C	7TH_CHANNEL
LCONF	PGDSCONF	CHP8			C	8TH_CHANNEL
LCONF	PGDSCONF	EPVDATE	Y	2	N	DATE
LCONF	PGDSCONF	EPVHOUR	Y	3	N	HOUR
LCONF	PGDSCONF	FBA			C	FBA_DEVICE_FLAG
LCONF	PGDSCONF	RDEVCUID			C	CONTROL_UNIT_ID
LCONF	PGDSCONF	RDEVCMN			C	CONTROL_UNIT_MODEL
LCONF	PGDSCONF	RDEVDEV			C	DEVICE_ADDRESS
LCONF	PGDSCONF	RDEVVID			C	DEVICE_TYPE
LCONF	PGDSCONF	RDEVSER	Y	5	C	LOGICAL_VOLUME_ID
LCONF	PGDSCONF	RDEVSID	Y	4	C	HOST_SUBCHANNEL_ID
LCONF	PGDSCONF	SLOTS			N	PAGE_SPOOL_SLOTS
LCONF	PGDSCONF	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	POOLCONF	EPVDATE	Y	2	N	DATE
LCONF	POOLCONF	EPVHOUR	Y	3	N	HOUR
LCONF	POOLCONF	FLAGS			C	FLAG_BYTE
LCONF	POOLCONF	LIMCPUTY			C	CPU_POOL_CPU_TYPE_LIMITED
LCONF	POOLCONF	LIMCTMEM			N	CURRENT_NUMBER_USERS_IN_CPU_POOL
LCONF	POOLCONF	LIMPOOL			C	CP_POOL_NAME
LCONF	POOLCONF	MAXSHARE			N	CPU_POOL_MAXIMUM_SHARE
LCONF	POOLCONF	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	POOLCONF	TPELIM			C	TYPE_OF_LIMIT
LCONF	SHRCHA	AREA	Y	3	C	AREA_WHERE_CHANGE_OCCURRED
LCONF	SHRCHA	CHVAR	Y	6	C	EPV_INTERNAL_USE
LCONF	SHRCHA	EPVDATE	Y	1	N	DATE
LCONF	SHRCHA	EPVHOUR	Y	2	N	HOUR
LCONF	SHRCHA	NEWVAL			C	VARIABLE_NEW_VALUE
LCONF	SHRCHA	OBJECT	Y	4	C	SHARED_CHANGES_OBJECT
LCONF	SHRCHA	OLDVAL			C	VARIABLE_OLD_VALUE
LCONF	SHRCHA	PARAM	Y	5	C	SHARED_CHANGES_PARAMETER
LCONF	SYSCHA	EPVDATE	Y	2	N	DATE
LCONF	SYSCHA	EPVHOUR	Y	3	N	HOUR
LCONF	SYSCHA	NEWVAL			C	VARIABLE_NEW_VALUE
LCONF	SYSCHA	OBJECT	Y	5	C	SYSTEM_CHANGES_OBJECT
LCONF	SYSCHA	OLDVAL			C	VARIABLE_OLD_VALUE
LCONF	SYSCHA	PARAM	Y	6	C	SYSTEM_CHANGES_PARAMETER
LCONF	SYSCHA	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	SYSCONF	CECSER			C	CEC_SERIAL_NUMBER



LCONF	SYSCONF	CPCMODEL			C	CEC_MODEL
LCONF	SYSCONF	EPVDATE	Y	2	N	DATE
LCONF	SYSCONF	EPVHOUR	Y	3	N	HOUR
LCONF	SYSCONF	LCPUDED			C	CP_DEDICATED_FLAG
LCONF	SYSCONF	LCPUWAIT			C	WAIT_COMPLETION_FLAG
LCONF	SYSCONF	LCUCWGHT			N	LPAR_CP_INITIAL_WEIGHT
LCONF	SYSCONF	LCUPNAME			C	LPAR_NAME
LCONF	SYSCONF	LCXCPTYP			C	CP_IDENTIFICATION
LCONF	SYSCONF	MIPS			N	CEC_IFL_MIPS
LCONF	SYSCONF	NCECCP			N	IFLS_IN_CEC
LCONF	SYSCONF	NCPU			N	LPAR_ACTIVE_IFL
LCONF	SYSCONF	PFXIDMDL			C	CEC_TYPE
LCONF	SYSCONF	RSAGSTOR			N	ONLINE_REAL_STORAGE
LCONF	SYSCONF	RSAOFFLN			N	OFFLINE_REAL_STORAGE
LCONF	SYSCONF	SYSGTORS			N	INSTALLED_REAL_STORAGE
LCONF	SYSCONF	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	SYSCONF	SYSXTSIZ			N	INSTALLED_EXPANDED_STORAGE
LCONF	SYSCONF	XSTOTALB			N	ONLINE_EXPANDED_STORAGE
LCONF	USERCONF	ASCDEFSZ			N	DEFINED_STORAGE_SIZE
LCONF	USERCONF	CALMODE	Y	6	C	VM_ARCHITECTURE_FLAG
LCONF	USERCONF	EPVDATE	Y	2	N	DATE
LCONF	USERCONF	EPVHOUR	Y	3	N	HOUR
LCONF	USERCONF	IUCMXCN			N	MAX_IUCV
LCONF	USERCONF	NCPU			N	VMACHINE_ACTIVE_IFL
LCONF	USERCONF	SYSTEM	Y	1	C	SYSTEM_ID
LCONF	USERCONF	VMDABSSH			N	ABSOLUTE_SHARE_PCT
LCONF	USERCONF	VMDACTNO	Y	5	C	USER_ACCOUNT_ID
LCONF	USERCONF	VMDMXRVP			N	RESERVED_STORAGE_SIZE
LCONF	USERCONF	VMDQDSPU			C	QUICK_DISPATCH_FLAG
LCONF	USERCONF	VMDRELSH			N	RELATIVE_SHARE_PCT
LCONF	USERCONF	VMDSTYPE	Y	7	C	VM_STORAGE_TYPE_FLAG
LCONF	USERCONF	VMDUSER	Y	4	C	VM_USER_ID



## 5.2. LPROC DataBase

DB	TABLE	VARIABLE	K	S	T	LABEL
LPROC	PROCESS	COMM	Y	3	C	COMMAND
LPROC	PROCESS	DATETIME	Y	4	N	DATETIME
LPROC	PROCESS	DURATION			N	INTERVAL_DURATION
LPROC	PROCESS	EPVDATE			N	DATE
LPROC	PROCESS	EPVHOUR			N	HOUR
LPROC	PROCESS	LNXYST	Y	1	C	LINUX_SYSTEM
LPROC	PROCESS	PCT			N	CPU_TIME_PCT
LPROC	PROCESS	TIME			N	INTERVAL_START
LPROC	PROCESS	USER	Y	2	C	UNIX_USER_ID
LPROC	PROCESS	VAL			N	CPU_TIME



### 5.3. LWKLA DataBase

DB	TABLE	VARIABLE	K	S	T	LABEL
LWKLA	CPUWK	EPVDATE	Y	1	N	DATE
LWKLA	CPUWK	EPVHOUR	Y	5	N	HOUR
LWKLA	CPUWK	FUNCTION	Y	3	C	EPV_FUNCTION
LWKLA	CPUWK	LIMPOOL			C	CPU_POOL_NAME
LWKLA	CPUWK	SYSTEM	Y	2	C	SYSTEM_ID
LWKLA	CPUWK	TOTMIPS			N	MIPS_CONSUMED_BY_USER+VM
LWKLA	CPUWK	USRMIPS			N	MIPS_CONSUMED_BY_USER
LWKLA	CPUWK	VMDCTIME			N	CPU_TIME_CONSUMED_BY_VM
LWKLA	CPUWK	VMDUSER	Y	4	C	VM_USER_ID
LWKLA	CPUWK	VMDVTIME			N	CPU_TIME_CONSUMED_BY_USER
LWKLA	CPUWK	VMMIPS			N	MIPS_CONSUMED_BY_VM
LWKLA	CPUWKDET	EPVDATE	Y	1	N	DATE
LWKLA	CPUWKDET	EPVMIN	Y	5	N	INTERVAL_START
LWKLA	CPUWKDET	FUNCTION	Y	3	C	EPV_FUNCTION
LWKLA	CPUWKDET	LIMPOOL			C	CPU_POOL_NAME
LWKLA	CPUWKDET	SYSTEM	Y	2	C	SYSTEM_ID
LWKLA	CPUWKDET	TOTMIPS			N	MIPS_CONSUMED_BY_USER+VM
LWKLA	CPUWKDET	USRMIPS			N	MIPS_CONSUMED_BY_USER
LWKLA	CPUWKDET	VMDABSSH			N	ABSOLUTE_SHARE_PCT
LWKLA	CPUWKDET	VMDCTIME			N	CPU_TIME_CONSUMED_BY_VM
LWKLA	CPUWKDET	VMDRELSH			N	RELATIVE_SHARE_PCT
LWKLA	CPUWKDET	VMDUSER	Y	4	C	VM_USER_ID
LWKLA	CPUWKDET	VMDVTIME			N	CPU_TIME_CONSUMED_BY_USER
LWKLA	CPUWKDET	VMMIPS			N	MIPS_CONSUMED_BY_VM
LWKLA	IFLCP	CALENTMT			N	HIPERDISPATCH_CPU_ENTITLEMENT
LWKLA	IFLCP	EPVDATE	Y	2	N	DATE
LWKLA	IFLCP	EPVHOUR	Y	3	N	HOUR
LWKLA	IFLCP	LCUCACTM			N	DISPATCH_TIME
LWKLA	IFLCP	LCUCPUID	Y	4	N	LOGICAL_PROCESSOR_ADDRESS
LWKLA	IFLCP	PFXPOLAR			N	HIPERDISPATCH_POLARITY
LWKLA	IFLCP	PFXPRKWT			N	PARKED_DURATION
LWKLA	IFLCP	SYSTEM	Y	1	C	SYSTEM_ID
LWKLA	IFLCP	TOTDUR			N	TOTAL_DURATION_IN_THIS_HOUR
LWKLA	IFLCPDET	CAL_AVGTDBYCORE			N	MT_CORE_AVERAGE_THREAD_DENSITY
LWKLA	IFLCPDET	CAL_AVGTDBYTYPE			N	MT_AVERAGE_THREAD_DENSITY
LWKLA	IFLCPDET	CAL_BUSYTIMEBYCORE			N	MT_CORE_BUSY_TIME
LWKLA	IFLCPDET	CAL_BUSYTIMEBYTYPE			N	MT_BUSY_TIME
LWKLA	IFLCPDET	CAL_CAPBYTYPE			N	MT_CAPACITY_FACTOR
LWKLA	IFLCPDET	CAL_CORID			N	MT_CORE_ID
LWKLA	IFLCPDET	CAL_INTERVALTIMEBYCORE			N	MT_CORE_INTERVAL_TIME
LWKLA	IFLCPDET	CAL_INTERVALTIMEBYTYPE			N	MT_INTERVAL_TIME
LWKLA	IFLCPDET	CAL_MAXCAPBYTYPE			N	MT_MAX_CAPACITY_FACTOR
LWKLA	IFLCPDET	CAL_MTSFLGS			N	MT_STATUS_FLAGS
LWKLA	IFLCPDET	CAL_MTUTILBYCORE			N	MT_CORE_UTILIZATION
LWKLA	IFLCPDET	CAL_MTUTILBYTYPE			N	MT_UTILIZATION



LWKLA	IFLCPDET	CAL_PRODBYCORE			N	MT_CORE_PRODUCTIVITY
LWKLA	IFLCPDET	CAL_PRODBYTYPE			N	MT_PRODUCTIVITY
LWKLA	IFLCPDET	CAL_SAMPLEDCORESBYTYPE			N	MT_CORE_SAMPLES_RETURNED_DATA
LWKLA	IFLCPDET	CAL_TID			N	MT_THREAD_ID
LWKLA	IFLCPDET	CALENTMT			N	HIPERDISPATCH_CPU_ENTITLEMENT
LWKLA	IFLCPDET	EPVDATE	Y	2	N	DATE
LWKLA	IFLCPDET	EPVMIN	Y	3	N	INTERVAL_START
LWKLA	IFLCPDET	INTERVAL			N	INTERVAL_DURATION
LWKLA	IFLCPDET	LCUCACTM			N	DISPATCH_TIME
LWKLA	IFLCPDET	LCUCPUID	Y	4	N	LOGICAL_PROCESSOR_ADDRESS
LWKLA	IFLCPDET	PFXPOLAR			N	HIPERDISPATCH_POLARITY
LWKLA	IFLCPDET	PFXPWKWT			N	PARKED_DURATION
LWKLA	IFLCPDET	SYSTEM	Y	1	C	SYSTEM_ID
LWKLA	LASTLOAD	EPVDATE	Y	2	N	DATE
LWKLA	LASTLOAD	SYSTEM	Y	1	C	SYSTEM_ID
LWKLA	LOAWK	CALBASE			C	VMDBK_BASE_FLAG
LWKLA	LOAWK	EPVDATE	Y	2	N	DATE
LWKLA	LOAWK	EPVHOUR	Y	3	N	HOUR
LWKLA	LOAWK	NUM			N	NUMBER_OF_GUESTS_BY_LIST
LWKLA	LOAWK	SYSTEM	Y	1	C	SYSTEM_ID
LWKLA	LOAWK	VMDSLIST			C	SCHEDULING_LIST_TYPE
LWKLA	LOAWKDET	CALBASE			C	VMDBK_BASE_FLAG
LWKLA	LOAWKDET	EPVDATE	Y	2	N	DATE
LWKLA	LOAWKDET	EPVMIN	Y	3	N	INTERVAL_START
LWKLA	LOAWKDET	NUM			N	NUMBER_OF_GUESTS_BY_LIST
LWKLA	LOAWKDET	SYSTEM	Y	1	C	SYSTEM_ID
LWKLA	LOAWKDET	VMDSLIST			C	SCHEDULING_LIST_TYPE
LWKLA	MEMWK	EPVDATE	Y	1	N	DATE
LWKLA	MEMWK	EPVHOUR	Y	4	N	HOUR
LWKLA	MEMWK	PFRATE			N	PAGE_FAULT_RATE
LWKLA	MEMWK	SYSTEM	Y	2	C	SYSTEM_ID
LWKLA	MEMWK	VMDCTLKP			N	MEMORY_LOCKED_IN_BYTES
LWKLA	MEMWK	VMDCTPRS			N	MEMORY_RESIDENT_IN_BYTES
LWKLA	MEMWK	VMDCTPVLA			N	LOCKED_PAGES_GT_2GB
LWKLA	MEMWK	VMDUSER	Y	3	C	VM_USER_ID
LWKLA	MEMWK	VMDWSSPR			N	WORKING_SET_IN_BYTES
LWKLA	MEMWKDET	EPVDATE	Y	1	N	DATE
LWKLA	MEMWKDET	EPVMIN	Y	4	N	INTERVAL_START
LWKLA	MEMWKDET	PFRATE			N	PAGE_FAULT_RATE
LWKLA	MEMWKDET	SYSTEM	Y	2	C	SYSTEM_ID
LWKLA	MEMWKDET	VMDCTLKP			N	MEMORY_LOCKED_IN_BYTES
LWKLA	MEMWKDET	VMDCTPRS			N	MEMORY_RESIDENT_IN_BYTES
LWKLA	MEMWKDET	VMDCTPVLA			N	LOCKED_PAGES_GT_2GB
LWKLA	MEMWKDET	VMDUSER	Y	3	C	VM_USER_ID
LWKLA	MEMWKDET	VMDWSSPR			N	WORKING_SET_IN_BYTES
LWKLA	SYSCP	EPVDATE	Y	2	N	DATE
LWKLA	SYSCP	EPVHOUR	Y	3	N	HOUR
LWKLA	SYSCP	GUESTCR			N	GUEST_CAPTURE_RATIO
LWKLA	SYSCP	GUESTPCT			N	GUEST_CPU_PCT





LWKLA	SYSCP	LPARPCT			N	LPAR_CPU_PCT
LWKLA	SYSCP	SYSCR			N	SYSTEM_CAPTURE_RATIO
LWKLA	SYSCP	SYSPCT			N	SYSTEM_CPU_PCT
LWKLA	SYSCP	SYSTEM	Y	1	C	SYSTEM_ID
LWKLA	SYSCP	USERCR			N	USER_CAPTURE_RATIO
LWKLA	SYSCP	USERPCT			N	USER_CPU_PCT
LWKLA	SYSCPDET	EPVDATE	Y	2	N	DATE
LWKLA	SYSCPDET	EPVMIN	Y	3	N	INTERVAL_START
LWKLA	SYSCPDET	GUESTCR			N	GUEST_CAPTURE_RATIO
LWKLA	SYSCPDET	GUESTPCT			N	GUEST_CPU_PCT
LWKLA	SYSCPDET	INTERVAL			N	INTERVAL_DURATION
LWKLA	SYSCPDET	LPARPCT			N	LPAR_CPU_PCT
LWKLA	SYSCPDET	MIPS			N	CEC_IFL_MIPS
LWKLA	SYSCPDET	NCECCP			N	IFL_NUMBER
LWKLA	SYSCPDET	SYSCR			N	SYSTEM_CAPTURE_RATIO
LWKLA	SYSCPDET	SYSPCT			N	SYSTEM_CPU_PCT
LWKLA	SYSCPDET	SYSTEM	Y	1	C	SYSTEM_ID
LWKLA	SYSCPDET	USERCR			N	USER_CAPTURE_RATIO
LWKLA	SYSCPDET	USERPCT			N	USER_CPU_PCT
LWKLA	USRWK	EPVDATE	Y	1	N	DATE
LWKLA	USRWK	EPVHOUR	Y	4	N	HOUR
LWKLA	USRWK	HFCFWT			N	PCT_CONSOLE_FUNCTION_WAIT
LWKLA	USRWK	HFCPUWT			N	PCT_DISPATCH_RUNNING
LWKLA	USRWK	HFCPUWT			N	PCT_CPU_WAIT
LWKLA	USRWK	HFDORM			N	PCT_DORMANT_LIST
LWKLA	USRWK	HFDSVM			N	PCT_DORMANT_SVM
LWKLA	USRWK	HFESVM			N	PCT_ELIGIBLE_SVM
LWKLA	USRWK	HFIOACT			N	PCT_ASYNC_I/O
LWKLA	USRWK	HFIOWT			N	PCT_I/O_WAIT
LWKLA	USRWK	HFLLIST			N	PCT_LIMIT_LIST
LWKLA	USRWK	HFLOAD			N	PCT_LOAD_LIST
LWKLA	USRWK	HFNODORM			N	PCT_NODORMANT_LIST
LWKLA	USRWK	HFOTHR			N	PCT_IN_OTHER
LWKLA	USRWK	HFPGACT			N	PCT_PAGE_FAULT_NOT_IN_PAGE_WAIT
LWKLA	USRWK	HFQUCT			N	SAMPLES
LWKLA	USRWK	HFSIMWT			N	PCT_SIMULATE_WAIT
LWKLA	USRWK	HFTIDL			N	PCT_IDLE_NOT_SVM
LWKLA	USRWK	HFTSVM			N	PCT_IDLE_SVM
LWKLA	USRWK	HFWTPAG			N	PCT_PAGE_WAIT
LWKLA	USRWK	SYSTEM	Y	2	C	SYSTEM_ID
LWKLA	USRWK	VMDUSER	Y	3	C	VM_USER_ID
LWKLA	USRWKDET	EPVDATE	Y	1	N	DATE
LWKLA	USRWKDET	EPVMIN	Y	4	N	INTERVAL_START
LWKLA	USRWKDET	HFCFWT			N	PCT_CONSOLE_FUNCTION_WAIT
LWKLA	USRWKDET	HFCPUWT			N	PCT_DISPATCH_RUNNING
LWKLA	USRWKDET	HFCPUWT			N	PCT_CPU_WAIT
LWKLA	USRWKDET	HFDORM			N	PCT_DORMANT_LIST
LWKLA	USRWKDET	HFDSVM			N	PCT_DORMANT_SVM
LWKLA	USRWKDET	HFESVM			N	PCT_ELIGIBLE_SVM



LWKLA	USRWKDET	HFIOACT			N	PCT_ASYNC_I/O
LWKLA	USRWKDET	HFIOWT			N	PCT_I/O_WAIT
LWKLA	USRWKDET	HFLLIST			N	PCT_LIMIT_LIST
LWKLA	USRWKDET	HFLOAD			N	PCT_LOAD_LIST
LWKLA	USRWKDET	HFNODORM			N	PCT_NODORMANT_LIST
LWKLA	USRWKDET	HFOTHR			N	PCT_IN_OTHER
LWKLA	USRWKDET	HFPGACT			N	PCT_PAGE_FAULT_NOT_IN_PAGE_WAIT
LWKLA	USRWKDET	HFQUCT			N	SAMPLES
LWKLA	USRWKDET	HFSIMWT			N	PCT_SIMULATE_WAIT
LWKLA	USRWKDET	HFTIDL			N	PCT_IDLE_NOT_SVM
LWKLA	USRWKDET	HFTSVM			N	PCT_IDLE_SVM
LWKLA	USRWKDET	HFWTPAG			N	PCT_PAGE_WAIT
LWKLA	USRWKDET	SYSTEM	Y	2	C	SYSTEM_ID
LWKLA	USRWKDET	VMDUSER	Y	3	C	VM_USER_ID



### 5.4. LRESA DataBase

DB	TABLE	VARIABLE	K	S	T	LABEL
LRESA	CHANNEL	CECSER			C	CEC_SERIAL_NUMBER
LRESA	CHANNEL	CHPDESC	Y	5	C	CHANNEL_PATH_TYPE_DESCRIPTION
LRESA	CHANNEL	CHPID	Y	4	N	CHANNEL_PATH_ID
LRESA	CHANNEL	EPVDATE	Y	2	N	DATE
LRESA	CHANNEL	EPVHOUR	Y	3	N	HOUR
LRESA	CHANNEL	INTERVAL			N	INTERVAL_DURATION
LRESA	CHANNEL	PBUSBY			N	CHANNEL_BUS_BUSY_PCT
LRESA	CHANNEL	PNCHANBY			N	CHANNEL_BUSY_PCT_LPAR
LRESA	CHANNEL	SMF73CMG			N	CHANNEL_MEASUREMENT_GROUP
LRESA	CHANNEL	SMF73PRU			N	READ_BYTES_PER_SEC
LRESA	CHANNEL	SMF73PWU			N	WRITE_BYTES_PER_SEC
LRESA	CHANNEL	SYSTEM	Y	1	C	SYSTEM_ID
LRESA	CHANNEL	TYPEC	Y	6	C	DISK_CHP_FLAG
LRESA	CPCTR	BASIC00				MF_BASIC_COUNTER_00
LRESA	CPCTR	BASIC01				MF_BASIC_COUNTER_01
LRESA	CPCTR	BASIC02				MF_BASIC_COUNTER_02
LRESA	CPCTR	BASIC03				MF_BASIC_COUNTER_03
LRESA	CPCTR	BASIC04				MF_BASIC_COUNTER_04
LRESA	CPCTR	BASIC05				MF_BASIC_COUNTER_05
LRESA	CPCTR	CECSER			C	CEC_SERIAL_NUMBER
LRESA	CPCTR	CRYPTO64			N	MF_CRYPTOCOUNTER_64
LRESA	CPCTR	CRYPTO65			N	MF_CRYPTOCOUNTER_65
LRESA	CPCTR	CRYPTO66			N	MF_CRYPTOCOUNTER_66
LRESA	CPCTR	CRYPTO67			N	MF_CRYPTOCOUNTER_67
LRESA	CPCTR	CRYPTO68			N	MF_CRYPTOCOUNTER_68
LRESA	CPCTR	CRYPTO69			N	MF_CRYPTOCOUNTER_69
LRESA	CPCTR	CRYPTO70			N	MF_CRYPTOCOUNTER_70
LRESA	CPCTR	CRYPTO71			N	MF_CRYPTOCOUNTER_71
LRESA	CPCTR	CRYPTO72			N	MF_CRYPTOCOUNTER_72
LRESA	CPCTR	CRYPTO73			N	MF_CRYPTOCOUNTER_73
LRESA	CPCTR	CRYPTO74			N	MF_CRYPTOCOUNTER_74
LRESA	CPCTR	CRYPTO75			N	MF_CRYPTOCOUNTER_75
LRESA	CPCTR	CRYPTO76			N	MF_CRYPTOCOUNTER_76
LRESA	CPCTR	CRYPTO77			N	MF_CRYPTOCOUNTER_77
LRESA	CPCTR	CRYPTO78			N	MF_CRYPTOCOUNTER_78
LRESA	CPCTR	CRYPTO79			N	MF_CRYPTOCOUNTER_79
LRESA	CPCTR	EPVDATE	Y	3	C	DATE
LRESA	CPCTR	EPVHOUR	Y	4	N	HOUR
LRESA	CPCTR	EXTND128			N	MF_EXTENDED_COUNTER_128
LRESA	CPCTR	EXTND129			N	MF_EXTENDED_COUNTER_129
LRESA	CPCTR	EXTND130			N	MF_EXTENDED_COUNTER_130
LRESA	CPCTR	EXTND131			N	MF_EXTENDED_COUNTER_131
LRESA	CPCTR	EXTND132			N	MF_EXTENDED_COUNTER_132
LRESA	CPCTR	EXTND133			N	MF_EXTENDED_COUNTER_133
LRESA	CPCTR	EXTND134			N	MF_EXTENDED_COUNTER_134



LRESA	CPCTR	EXTND135		N	MF_EXTENDED_COUNTER_135
LRESA	CPCTR	EXTND136		N	MF_EXTENDED_COUNTER_136
LRESA	CPCTR	EXTND137		N	MF_EXTENDED_COUNTER_137
LRESA	CPCTR	EXTND138		N	MF_EXTENDED_COUNTER_138
LRESA	CPCTR	EXTND139		N	MF_EXTENDED_COUNTER_139
LRESA	CPCTR	EXTND140		N	MF_EXTENDED_COUNTER_140
LRESA	CPCTR	EXTND141		N	MF_EXTENDED_COUNTER_141
LRESA	CPCTR	EXTND142		N	MF_EXTENDED_COUNTER_142
LRESA	CPCTR	EXTND143		N	MF_EXTENDED_COUNTER_143
LRESA	CPCTR	EXTND144		N	MF_EXTENDED_COUNTER_144
LRESA	CPCTR	EXTND145		N	MF_EXTENDED_COUNTER_145
LRESA	CPCTR	EXTND146		N	MF_EXTENDED_COUNTER_146
LRESA	CPCTR	EXTND147		N	MF_EXTENDED_COUNTER_147
LRESA	CPCTR	EXTND148		N	MF_EXTENDED_COUNTER_148
LRESA	CPCTR	EXTND149		N	MF_EXTENDED_COUNTER_149
LRESA	CPCTR	EXTND150		N	MF_EXTENDED_COUNTER_150
LRESA	CPCTR	EXTND151		N	MF_EXTENDED_COUNTER_151
LRESA	CPCTR	EXTND152		N	MF_EXTENDED_COUNTER_152
LRESA	CPCTR	EXTND153		N	MF_EXTENDED_COUNTER_153
LRESA	CPCTR	EXTND154		N	MF_EXTENDED_COUNTER_154
LRESA	CPCTR	EXTND155		N	MF_EXTENDED_COUNTER_155
LRESA	CPCTR	EXTND156		N	MF_EXTENDED_COUNTER_156
LRESA	CPCTR	EXTND157		N	MF_EXTENDED_COUNTER_157
LRESA	CPCTR	EXTND158		N	MF_EXTENDED_COUNTER_158
LRESA	CPCTR	EXTND159		N	MF_EXTENDED_COUNTER_159
LRESA	CPCTR	EXTND160		N	MF_EXTENDED_COUNTER_160
LRESA	CPCTR	EXTND161		N	MF_EXTENDED_COUNTER_161
LRESA	CPCTR	EXTND162		N	MF_EXTENDED_COUNTER_162
LRESA	CPCTR	EXTND163		N	MF_EXTENDED_COUNTER_163
LRESA	CPCTR	EXTND164		N	MF_EXTENDED_COUNTER_164
LRESA	CPCTR	EXTND165		N	MF_EXTENDED_COUNTER_165
LRESA	CPCTR	EXTND166		N	MF_EXTENDED_COUNTER_166
LRESA	CPCTR	EXTND167		N	MF_EXTENDED_COUNTER_167
LRESA	CPCTR	EXTND168		N	MF_EXTENDED_COUNTER_168
LRESA	CPCTR	EXTND169		N	MF_EXTENDED_COUNTER_169
LRESA	CPCTR	EXTND170		N	MF_EXTENDED_COUNTER_170
LRESA	CPCTR	EXTND171		N	MF_EXTENDED_COUNTER_171
LRESA	CPCTR	EXTND172		N	MF_EXTENDED_COUNTER_172
LRESA	CPCTR	EXTND173		N	MF_EXTENDED_COUNTER_173
LRESA	CPCTR	EXTND174		N	MF_EXTENDED_COUNTER_174
LRESA	CPCTR	EXTND175		N	MF_EXTENDED_COUNTER_175
LRESA	CPCTR	EXTND176		N	MF_EXTENDED_COUNTER_176
LRESA	CPCTR	EXTND177		N	MF_EXTENDED_COUNTER_177
LRESA	CPCTR	EXTND178		N	MF_EXTENDED_COUNTER_178
LRESA	CPCTR	EXTND179		N	MF_EXTENDED_COUNTER_179
LRESA	CPCTR	EXTND180		N	MF_EXTENDED_COUNTER_180
LRESA	CPCTR	EXTND181		N	MF_EXTENDED_COUNTER_181
LRESA	CPCTR	EXTND182		N	MF_EXTENDED_COUNTER_182
LRESA	CPCTR	EXTND183		N	MF_EXTENDED_COUNTER_183



LRESA	CPCTR	EXTND184		N	MF_EXTENDED_COUNTER_184
LRESA	CPCTR	EXTND185		N	MF_EXTENDED_COUNTER_185
LRESA	CPCTR	EXTND186		N	MF_EXTENDED_COUNTER_186
LRESA	CPCTR	EXTND187		N	MF_EXTENDED_COUNTER_187
LRESA	CPCTR	EXTND188		N	MF_EXTENDED_COUNTER_188
LRESA	CPCTR	EXTND189		N	MF_EXTENDED_COUNTER_189
LRESA	CPCTR	EXTND190		N	MF_EXTENDED_COUNTER_190
LRESA	CPCTR	EXTND191		N	MF_EXTENDED_COUNTER_191
LRESA	CPCTR	EXTND192		N	MF_EXTENDED_COUNTER_192
LRESA	CPCTR	EXTND193		N	MF_EXTENDED_COUNTER_193
LRESA	CPCTR	EXTND194		N	MF_EXTENDED_COUNTER_194
LRESA	CPCTR	EXTND195		N	MF_EXTENDED_COUNTER_195
LRESA	CPCTR	EXTND196		N	MF_EXTENDED_COUNTER_196
LRESA	CPCTR	EXTND197		N	MF_EXTENDED_COUNTER_197
LRESA	CPCTR	EXTND198		N	MF_EXTENDED_COUNTER_198
LRESA	CPCTR	EXTND199		N	MF_EXTENDED_COUNTER_199
LRESA	CPCTR	EXTND200		N	MF_EXTENDED_COUNTER_200
LRESA	CPCTR	EXTND201		N	MF_EXTENDED_COUNTER_201
LRESA	CPCTR	EXTND202		N	MF_EXTENDED_COUNTER_202
LRESA	CPCTR	EXTND203		N	MF_EXTENDED_COUNTER_203
LRESA	CPCTR	EXTND204		N	MF_EXTENDED_COUNTER_204
LRESA	CPCTR	EXTND205		N	MF_EXTENDED_COUNTER_205
LRESA	CPCTR	EXTND206		N	MF_EXTENDED_COUNTER_206
LRESA	CPCTR	EXTND207		N	MF_EXTENDED_COUNTER_207
LRESA	CPCTR	EXTND208		N	MF_EXTENDED_COUNTER_208
LRESA	CPCTR	EXTND209		N	MF_EXTENDED_COUNTER_209
LRESA	CPCTR	EXTND210		N	MF_EXTENDED_COUNTER_210
LRESA	CPCTR	EXTND211		N	MF_EXTENDED_COUNTER_211
LRESA	CPCTR	EXTND212		N	MF_EXTENDED_COUNTER_212
LRESA	CPCTR	EXTND213		N	MF_EXTENDED_COUNTER_213
LRESA	CPCTR	EXTND214		N	MF_EXTENDED_COUNTER_214
LRESA	CPCTR	EXTND215		N	MF_EXTENDED_COUNTER_215
LRESA	CPCTR	EXTND216		N	MF_EXTENDED_COUNTER_216
LRESA	CPCTR	EXTND217		N	MF_EXTENDED_COUNTER_217
LRESA	CPCTR	EXTND218		N	MF_EXTENDED_COUNTER_218
LRESA	CPCTR	EXTND219		N	MF_EXTENDED_COUNTER_219
LRESA	CPCTR	EXTND220		N	MF_EXTENDED_COUNTER_220
LRESA	CPCTR	EXTND221		N	MF_EXTENDED_COUNTER_221
LRESA	CPCTR	EXTND222		N	MF_EXTENDED_COUNTER_222
LRESA	CPCTR	EXTND223		N	MF_EXTENDED_COUNTER_223
LRESA	CPCTR	EXTND224		N	MF_EXTENDED_COUNTER_224
LRESA	CPCTR	EXTND225		N	MF_EXTENDED_COUNTER_225
LRESA	CPCTR	EXTND226		N	MF_EXTENDED_COUNTER_226
LRESA	CPCTR	EXTND227		N	MF_EXTENDED_COUNTER_227
LRESA	CPCTR	EXTND228		N	MF_EXTENDED_COUNTER_228
LRESA	CPCTR	EXTND229		N	MF_EXTENDED_COUNTER_229
LRESA	CPCTR	EXTND230		N	MF_EXTENDED_COUNTER_230
LRESA	CPCTR	PROBST32		N	MF_PROBSTSTATE_COUNTER_32
LRESA	CPCTR	PROBST33		N	MF_PROBSTSTATE_COUNTER_33



LRESA	CPCTR	PROBST34			N	MF_PROBSTATE_COUNTER_34
LRESA	CPCTR	PROBST35			N	MF_PROBSTATE_COUNTER_35
LRESA	CPCTR	PROBST36			N	MF_PROBSTATE_COUNTER_36
LRESA	CPCTR	PROBST37			N	MF_PROBSTATE_COUNTER_37
LRESA	CPCTR	SYSTEM	Y	2	C	SYSTEM_ID
LRESA	CPCTRDET	BASIC00				MF_BASIC_COUNTER_00
LRESA	CPCTRDET	BASIC01				MF_BASIC_COUNTER_01
LRESA	CPCTRDET	BASIC02				MF_BASIC_COUNTER_02
LRESA	CPCTRDET	BASIC03				MF_BASIC_COUNTER_03
LRESA	CPCTRDET	BASIC04				MF_BASIC_COUNTER_04
LRESA	CPCTRDET	BASIC05				MF_BASIC_COUNTER_05
LRESA	CPCTRDET	CECSER			C	CEC_SERIAL_NUMBER
LRESA	CPCTRDET	CRYPTO64			N	MF_CRYPTOCOUNTER_64
LRESA	CPCTRDET	CRYPTO65			N	MF_CRYPTOCOUNTER_65
LRESA	CPCTRDET	CRYPTO66			N	MF_CRYPTOCOUNTER_66
LRESA	CPCTRDET	CRYPTO67			N	MF_CRYPTOCOUNTER_67
LRESA	CPCTRDET	CRYPTO68			N	MF_CRYPTOCOUNTER_68
LRESA	CPCTRDET	CRYPTO69			N	MF_CRYPTOCOUNTER_69
LRESA	CPCTRDET	CRYPTO70			N	MF_CRYPTOCOUNTER_70
LRESA	CPCTRDET	CRYPTO71			N	MF_CRYPTOCOUNTER_71
LRESA	CPCTRDET	CRYPTO72			N	MF_CRYPTOCOUNTER_72
LRESA	CPCTRDET	CRYPTO73			N	MF_CRYPTOCOUNTER_73
LRESA	CPCTRDET	CRYPTO74			N	MF_CRYPTOCOUNTER_74
LRESA	CPCTRDET	CRYPTO75			N	MF_CRYPTOCOUNTER_75
LRESA	CPCTRDET	CRYPTO76			N	MF_CRYPTOCOUNTER_76
LRESA	CPCTRDET	CRYPTO77			N	MF_CRYPTOCOUNTER_77
LRESA	CPCTRDET	CRYPTO78			N	MF_CRYPTOCOUNTER_78
LRESA	CPCTRDET	CRYPTO79			N	MF_CRYPTOCOUNTER_79
LRESA	CPCTRDET	EPVDATE	Y	3	C	DATE
LRESA	CPCTRDET	EPVHOUR	Y		N	HOUR
LRESA	CPCTRDET	EPVMIN		4	C	MINUTE
LRESA	CPCTRDET	EXTND128			N	MF_EXTENDED_COUNTER_128
LRESA	CPCTRDET	EXTND129			N	MF_EXTENDED_COUNTER_129
LRESA	CPCTRDET	EXTND130			N	MF_EXTENDED_COUNTER_130
LRESA	CPCTRDET	EXTND131			N	MF_EXTENDED_COUNTER_131
LRESA	CPCTRDET	EXTND132			N	MF_EXTENDED_COUNTER_132
LRESA	CPCTRDET	EXTND133			N	MF_EXTENDED_COUNTER_133
LRESA	CPCTRDET	EXTND134			N	MF_EXTENDED_COUNTER_134
LRESA	CPCTRDET	EXTND135			N	MF_EXTENDED_COUNTER_135
LRESA	CPCTRDET	EXTND136			N	MF_EXTENDED_COUNTER_136
LRESA	CPCTRDET	EXTND137			N	MF_EXTENDED_COUNTER_137
LRESA	CPCTRDET	EXTND138			N	MF_EXTENDED_COUNTER_138
LRESA	CPCTRDET	EXTND139			N	MF_EXTENDED_COUNTER_139
LRESA	CPCTRDET	EXTND140			N	MF_EXTENDED_COUNTER_140
LRESA	CPCTRDET	EXTND141			N	MF_EXTENDED_COUNTER_141
LRESA	CPCTRDET	EXTND142			N	MF_EXTENDED_COUNTER_142
LRESA	CPCTRDET	EXTND143			N	MF_EXTENDED_COUNTER_143
LRESA	CPCTRDET	EXTND144			N	MF_EXTENDED_COUNTER_144
LRESA	CPCTRDET	EXTND145			N	MF_EXTENDED_COUNTER_145



LRESA	CPCTRDET	EXTND146		N	MF_EXTENDED_COUNTER_146
LRESA	CPCTRDET	EXTND147		N	MF_EXTENDED_COUNTER_147
LRESA	CPCTRDET	EXTND148		N	MF_EXTENDED_COUNTER_148
LRESA	CPCTRDET	EXTND149		N	MF_EXTENDED_COUNTER_149
LRESA	CPCTRDET	EXTND150		N	MF_EXTENDED_COUNTER_150
LRESA	CPCTRDET	EXTND151		N	MF_EXTENDED_COUNTER_151
LRESA	CPCTRDET	EXTND152		N	MF_EXTENDED_COUNTER_152
LRESA	CPCTRDET	EXTND153		N	MF_EXTENDED_COUNTER_153
LRESA	CPCTRDET	EXTND154		N	MF_EXTENDED_COUNTER_154
LRESA	CPCTRDET	EXTND155		N	MF_EXTENDED_COUNTER_155
LRESA	CPCTRDET	EXTND156		N	MF_EXTENDED_COUNTER_156
LRESA	CPCTRDET	EXTND157		N	MF_EXTENDED_COUNTER_157
LRESA	CPCTRDET	EXTND158		N	MF_EXTENDED_COUNTER_158
LRESA	CPCTRDET	EXTND159		N	MF_EXTENDED_COUNTER_159
LRESA	CPCTRDET	EXTND160		N	MF_EXTENDED_COUNTER_160
LRESA	CPCTRDET	EXTND161		N	MF_EXTENDED_COUNTER_161
LRESA	CPCTRDET	EXTND162		N	MF_EXTENDED_COUNTER_162
LRESA	CPCTRDET	EXTND163		N	MF_EXTENDED_COUNTER_163
LRESA	CPCTRDET	EXTND164		N	MF_EXTENDED_COUNTER_164
LRESA	CPCTRDET	EXTND165		N	MF_EXTENDED_COUNTER_165
LRESA	CPCTRDET	EXTND166		N	MF_EXTENDED_COUNTER_166
LRESA	CPCTRDET	EXTND167		N	MF_EXTENDED_COUNTER_167
LRESA	CPCTRDET	EXTND168		N	MF_EXTENDED_COUNTER_168
LRESA	CPCTRDET	EXTND169		N	MF_EXTENDED_COUNTER_169
LRESA	CPCTRDET	EXTND170		N	MF_EXTENDED_COUNTER_170
LRESA	CPCTRDET	EXTND171		N	MF_EXTENDED_COUNTER_171
LRESA	CPCTRDET	EXTND172		N	MF_EXTENDED_COUNTER_172
LRESA	CPCTRDET	EXTND173		N	MF_EXTENDED_COUNTER_173
LRESA	CPCTRDET	EXTND174		N	MF_EXTENDED_COUNTER_174
LRESA	CPCTRDET	EXTND175		N	MF_EXTENDED_COUNTER_175
LRESA	CPCTRDET	EXTND176		N	MF_EXTENDED_COUNTER_176
LRESA	CPCTRDET	EXTND177		N	MF_EXTENDED_COUNTER_177
LRESA	CPCTRDET	EXTND178		N	MF_EXTENDED_COUNTER_178
LRESA	CPCTRDET	EXTND179		N	MF_EXTENDED_COUNTER_179
LRESA	CPCTRDET	EXTND180		N	MF_EXTENDED_COUNTER_180
LRESA	CPCTRDET	EXTND181		N	MF_EXTENDED_COUNTER_181
LRESA	CPCTRDET	EXTND182		N	MF_EXTENDED_COUNTER_182
LRESA	CPCTRDET	EXTND183		N	MF_EXTENDED_COUNTER_183
LRESA	CPCTRDET	EXTND184		N	MF_EXTENDED_COUNTER_184
LRESA	CPCTRDET	EXTND185		N	MF_EXTENDED_COUNTER_185
LRESA	CPCTRDET	EXTND186		N	MF_EXTENDED_COUNTER_186
LRESA	CPCTRDET	EXTND187		N	MF_EXTENDED_COUNTER_187
LRESA	CPCTRDET	EXTND188		N	MF_EXTENDED_COUNTER_188
LRESA	CPCTRDET	EXTND189		N	MF_EXTENDED_COUNTER_189
LRESA	CPCTRDET	EXTND190		N	MF_EXTENDED_COUNTER_190
LRESA	CPCTRDET	EXTND191		N	MF_EXTENDED_COUNTER_191
LRESA	CPCTRDET	EXTND192		N	MF_EXTENDED_COUNTER_192
LRESA	CPCTRDET	EXTND193		N	MF_EXTENDED_COUNTER_193
LRESA	CPCTRDET	EXTND194		N	MF_EXTENDED_COUNTER_194



LRESA	CPCTRDET	EXTND195			N	MF_EXTENDED_COUNTER_195
LRESA	CPCTRDET	EXTND196			N	MF_EXTENDED_COUNTER_196
LRESA	CPCTRDET	EXTND197			N	MF_EXTENDED_COUNTER_197
LRESA	CPCTRDET	EXTND198			N	MF_EXTENDED_COUNTER_198
LRESA	CPCTRDET	EXTND199			N	MF_EXTENDED_COUNTER_199
LRESA	CPCTRDET	EXTND200			N	MF_EXTENDED_COUNTER_200
LRESA	CPCTRDET	EXTND201			N	MF_EXTENDED_COUNTER_201
LRESA	CPCTRDET	EXTND202			N	MF_EXTENDED_COUNTER_202
LRESA	CPCTRDET	EXTND203			N	MF_EXTENDED_COUNTER_203
LRESA	CPCTRDET	EXTND204			N	MF_EXTENDED_COUNTER_204
LRESA	CPCTRDET	EXTND205			N	MF_EXTENDED_COUNTER_205
LRESA	CPCTRDET	EXTND206			N	MF_EXTENDED_COUNTER_206
LRESA	CPCTRDET	EXTND207			N	MF_EXTENDED_COUNTER_207
LRESA	CPCTRDET	EXTND208			N	MF_EXTENDED_COUNTER_208
LRESA	CPCTRDET	EXTND209			N	MF_EXTENDED_COUNTER_209
LRESA	CPCTRDET	EXTND210			N	MF_EXTENDED_COUNTER_210
LRESA	CPCTRDET	EXTND211			N	MF_EXTENDED_COUNTER_211
LRESA	CPCTRDET	EXTND212			N	MF_EXTENDED_COUNTER_212
LRESA	CPCTRDET	EXTND213			N	MF_EXTENDED_COUNTER_213
LRESA	CPCTRDET	EXTND214			N	MF_EXTENDED_COUNTER_214
LRESA	CPCTRDET	EXTND215			N	MF_EXTENDED_COUNTER_215
LRESA	CPCTRDET	EXTND216			N	MF_EXTENDED_COUNTER_216
LRESA	CPCTRDET	EXTND217			N	MF_EXTENDED_COUNTER_217
LRESA	CPCTRDET	EXTND218			N	MF_EXTENDED_COUNTER_218
LRESA	CPCTRDET	EXTND219			N	MF_EXTENDED_COUNTER_219
LRESA	CPCTRDET	EXTND220			N	MF_EXTENDED_COUNTER_220
LRESA	CPCTRDET	EXTND221			N	MF_EXTENDED_COUNTER_221
LRESA	CPCTRDET	EXTND222			N	MF_EXTENDED_COUNTER_222
LRESA	CPCTRDET	EXTND223			N	MF_EXTENDED_COUNTER_223
LRESA	CPCTRDET	EXTND224			N	MF_EXTENDED_COUNTER_224
LRESA	CPCTRDET	EXTND225			N	MF_EXTENDED_COUNTER_225
LRESA	CPCTRDET	EXTND226			N	MF_EXTENDED_COUNTER_226
LRESA	CPCTRDET	EXTND227			N	MF_EXTENDED_COUNTER_227
LRESA	CPCTRDET	EXTND228			N	MF_EXTENDED_COUNTER_228
LRESA	CPCTRDET	EXTND229			N	MF_EXTENDED_COUNTER_229
LRESA	CPCTRDET	EXTND230			N	MF_EXTENDED_COUNTER_230
LRESA	CPCTRDET	PROBST32			N	MF_PROBSTATE_COUNTER_32
LRESA	CPCTRDET	PROBST33			N	MF_PROBSTATE_COUNTER_33
LRESA	CPCTRDET	PROBST34			N	MF_PROBSTATE_COUNTER_34
LRESA	CPCTRDET	PROBST35			N	MF_PROBSTATE_COUNTER_35
LRESA	CPCTRDET	PROBST36			N	MF_PROBSTATE_COUNTER_36
LRESA	CPCTRDET	PROBST37			N	MF_PROBSTATE_COUNTER_37
LRESA	CPCTRDET	SYSTEM	Y	2	C	SYSTEM_ID
LRESA	DISK	CONMS			N	TOTAL_CONNECT_TIME
LRESA	DISK	DISMS			N	TOTAL_DISCONNECT_TIME
LRESA	DISK	EPVDATE	Y	1	N	DATE
LRESA	DISK	EPVHOUR	Y	3	N	HOUR
LRESA	DISK	IOQMS			N	TOTAL_IOSQ_TIME
LRESA	DISK	PNDMS			N	TOTAL_PENDING_TIME





LRESA	DISK	RDEVCUID			C	CONTROL_UNIT_ID
LRESA	DISK	RDEVCMN			C	CONTROL_UNIT_MODEL
LRESA	DISK	RDEVDEV			C	DEVICE_ADDRESS
LRESA	DISK	RDEVLCNT			N	NUMBER_OF_MINIDISKS_DEFINED
LRESA	DISK	RDEVMCIA			N	SSCH_AVOIDED_DUE_TO_MINIDISK
LRESA	DISK	RDEVSER	Y	5	C	LOGICAL_VOLUME_ID
LRESA	DISK	RDEVSID	Y	4	C	HOST_SUBCHANNEL_ID
LRESA	DISK	SSCH			N	TOTAL_SSCH
LRESA	DISK	SYSTEM	Y	2	C	SYSTEM_ID
LRESA	DISK	TOTDUR			N	TOTAL_DURATION_IN_THIS_HOUR
LRESA	DISKDET	CONMS			N	TOTAL_CONNECT_TIME
LRESA	DISKDET	DISMS			N	TOTAL_DISCONNECT_TIME
LRESA	DISKDET	EPVDATE	Y	2	N	DATE
LRESA	DISKDET	EPVMIN	Y	3	N	INTERVAL_START
LRESA	DISKDET	IOQMS			N	TOTAL_IOSQ_TIME
LRESA	DISKDET	PNDMS			N	TOTAL_PENDING_TIME
LRESA	DISKDET	SSCH			N	TOTAL_SSCH
LRESA	DISKDET	SYSTEM	Y	1	C	SYSTEM_ID
LRESA	LASTLOAD	EPVDATE	Y	2	N	DATE
LRESA	LASTLOAD	SYSTEM	Y	1	C	SYSTEM_ID
LRESA	LPAR	CALPTIS			C	LPAR_COLLECTOR_FLAG
LRESA	LPAR	CECSER			C	CEC_SERIAL_NUMBER
LRESA	LPAR	EPVDATE	Y	3	N	DATE
LRESA	LPAR	EPVHOUR	Y	4	N	HOUR
LRESA	LPAR	LCUCACTM			N	DISPATCH_TIME
LRESA	LPAR	LCUPNAME	Y	2	C	LPAR_NAME
LRESA	LPAR	LCXCPTYP			C	CP_IDENTIFICATION
LRESA	LPAR	LPARMIPS			N	LPAR_CPU_MIPS_USED
LRESA	LPAR	MIPS			N	CEC_IFL_MIPS
LRESA	LPAR	NCECCP			N	IFLS_IN_CEC
LRESA	LPAR	NCPU			N	LPAR_ACTIVE_IFL
LRESA	LPAR	SYSTEM	Y	1	C	SYSTEM_ID
LRESA	LPAR	TOTDUR			N	TOTAL_DURATION_IN_THIS_HOUR
LRESA	LPARDET	CALPTIS			C	LPAR_COLLECTOR_FLAG
LRESA	LPARDET	CAPFLAG			C	FLAG_BYTE
LRESA	LPARDET	CECSER			C	CEC_SERIAL_NUMBER
LRESA	LPARDET	EPVDATE	Y	3	N	DATE
LRESA	LPARDET	EPVHOUR			N	HOUR
LRESA	LPARDET	EPVMIN	Y	4	N	INTERVAL_START
LRESA	LPARDET	INTERVAL			N	INTERVAL_DURATION
LRESA	LPARDET	LCUCACTM			N	DISPATCH_TIME
LRESA	LPARDET	LCUCWGHT			N	LPAR_CP_INITIAL_WEIGHT
LRESA	LPARDET	LCUPNAME	Y	2	C	LPAR_NAME
LRESA	LPARDET	LCXCPTYP			C	CP_IDENTIFICATION
LRESA	LPARDET	LCXCTYCP			N	CPU_TYPE_CAP
LRESA	LPARDET	LPARMIPS			N	LPAR_CPU_MIPS_USED
LRESA	LPARDET	MIPS			N	CEC_IFL_MIPS
LRESA	LPARDET	NCECCP			N	IFLS_IN_CEC
LRESA	LPARDET	NCPU			N	LPAR_ACTIVE_IFL



LRESA	LPARDET	SYSTEM	Y	1	C	SYSTEM_ID
LRESA	MEM	EPVDATE	Y	1	N	DATE
LRESA	MEM	EPVHOUR	Y	3	N	HOUR
LRESA	MEM	PFXPGIN			N	FASTPATH_PAGEINS_RATE
LRESA	MEM	PLSPGIN			N	NOT_FASTPATH_PAGEINS_RATE
LRESA	MEM	PLSPGOUT			N	PAGEOUT_RATE
LRESA	MEM	PLSPIOPR			N	SYSTEM_PAGING_READS_RATE
LRESA	MEM	PLSPIOPW			N	SYSTEM_PAGING_WRITES_RATE
LRESA	MEM	RSALGFRM			N	USEABLE_FRAMES_BELOW_2GB
LRESA	MEM	RSANONPG			N	NOT_PAGEABLE_FRAMES
LRESA	MEM	RSAPGABL			N	PAGEABLE_FRAMES
LRESA	MEM	SYSGTORS			N	INSTALLED_REAL_STORAGE
LRESA	MEM	SYSTEM	Y	2	C	SYSTEM_ID
LRESA	MEM	VMDCTPRS			N	MEMORY_RESIDENT_IN_BYTES
LRESA	MEMDET	EPVDATE	Y	1	N	DATE
LRESA	MEMDET	EPVMIN	Y	3	N	INTERVAL_START
LRESA	MEMDET	PFXPGIN			N	FASTPATH_PAGEINS_RATE
LRESA	MEMDET	PLSPGIN			N	NOT_FASTPATH_PAGEINS_RATE
LRESA	MEMDET	PLSPGOUT			N	PAGEOUT_RATE
LRESA	MEMDET	PLSPIOPR			N	SYSTEM_PAGING_READS_RATE
LRESA	MEMDET	PLSPIOPW			N	SYSTEM_PAGING_WRITES_RATE
LRESA	MEMDET	RSALGFRM			N	USEABLE_FRAMES_BELOW_2GB
LRESA	MEMDET	RSANONPG			N	NOT_PAGEABLE_FRAMES
LRESA	MEMDET	RSAPGABL			N	PAGEABLE_FRAMES
LRESA	MEMDET	SYSGTORS			N	INSTALLED_REAL_STORAGE
LRESA	MEMDET	SYSTEM	Y	2	C	SYSTEM_ID
LRESA	MEMDET	VMDCTPRS			N	MEMORY_RESIDENT_IN_BYTES
LRESA	PGDS	CALTYPE	Y	4	C	TYPE_PAGE_SPOOL_FLAG
LRESA	PGDS	EPVDATE	Y	1	N	DATE
LRESA	PGDS	EPVHOUR	Y	3	N	HOUR
LRESA	PGDS	EXPCTPRD			N	PAGE_READS
LRESA	PGDS	EXPCTPWR			N	PAGE_WRITES
LRESA	PGDS	EXPCTSRD			N	SPOOL_READS
LRESA	PGDS	EXPCTSWR			N	SPOOL_WRITES
LRESA	PGDS	FBA			C	FBA_DEVICE_FLAG
LRESA	PGDS	RDEVDEV			C	DEVICE_ADDRESS
LRESA	PGDS	RDEVSER			C	LOGICAL_VOLUME_ID
LRESA	PGDS	RDEVSID			C	HOST_SUBCHANNEL_ID
LRESA	PGDS	SLOTS			N	PAGE_SPOOL_SLOTS
LRESA	PGDS	SYSTEM	Y	2	C	SYSTEM_ID
LRESA	PGDS	USAGE			N	PCT_PAGE_SPOOL_USAGE
LRESA	PGDS	USED			N	PAGE_SPOOL_USED
LRESA	PGDSDET	CALTYPE	Y	4	C	TYPE_PAGE_SPOOL_FLAG
LRESA	PGDSDET	EPVDATE	Y	1	N	DATE
LRESA	PGDSDET	EPVMIN	Y	3	N	INTERVAL_START
LRESA	PGDSDET	EXPCTPRD			N	PAGE_READS
LRESA	PGDSDET	EXPCTPWR			N	PAGE_WRITES
LRESA	PGDSDET	EXPCTSRD			N	SPOOL_READS
LRESA	PGDSDET	EXPCTSWR			N	SPOOL_WRITES



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LRESA	PGDSDDET	PERCSLOT			N	PCT_SLOTS_USED
LRESA	PGDSDDET	SLOTS			N	PAGE_SPOOL_SLOTS
LRESA	PGDSDDET	SYSTEM	Y	2	C	SYSTEM_ID
LRESA	PGDSDDET	USED			N	PAGE_SPOOL_USED
LRESA	SIODAYH	CONMS			N	TOTAL_CONNECT_TIME
LRESA	SIODAYH	DISMS			N	TOTAL_DISCONNECT_TIME
LRESA	SIODAYH	EPVDATE	Y	1	N	DATE
LRESA	SIODAYH	EPVHOUR	Y	3	N	HOUR
LRESA	SIODAYH	IOQMS			N	TOTAL_IOSQ_TIME
LRESA	SIODAYH	PNDMS			N	TOTAL_PENDING_TIME
LRESA	SIODAYH	SSCH			N	TOTAL_SSCH
LRESA	SIODAYH	SYSTEM	Y	2	C	SYSTEM_ID



### 5.5. LTRND DataBase

DB	TABLE	VARIABLE	K	S	T	LABEL
LTRND	FUNDAYH	EPVDATE	Y	4	N	DATE
LTRND	FUNDAYH	EPVHOUR	Y	5	N	HOUR
LTRND	FUNDAYH	FUNCTION	Y	1	C	EPV_FUNCTION
LTRND	FUNDAYH	SYSTEM	Y	2	C	SYSTEM_ID
LTRND	FUNDAYH	TOTMIPS			N	MIPS_CONSUMED_BY_USER+VM
LTRND	FUNDAYH	USRMIPS			N	MIPS_CONSUMED_BY_USER
LTRND	FUNDAYH	VMDCTIME			N	CPU_TIME_CONSUMED_BY_VM
LTRND	FUNDAYH	VMDUSER	Y	3	C	VM_USER_ID
LTRND	FUNDAYH	VMDVTIME			N	CPU_TIME_CONSUMED_BY_USER
LTRND	FUNDAYH	VMMIPS			N	MIPS_CONSUMED_BY_VM
LTRND	MEMDAYH	EPVDATE	Y	1	N	DATE
LTRND	MEMDAYH	EPVHOUR	Y	3	N	HOUR
LTRND	MEMDAYH	PFXPGIN			N	FASTPATH_PAGEINS_RATE
LTRND	MEMDAYH	PLSPGIN			N	NOT_FASTPATH_PAGEINS_RATE
LTRND	MEMDAYH	PLSPIOPR			N	SYSTEM_PAGING_READS_RATE
LTRND	MEMDAYH	PLSPIOPW			N	SYSTEM_PAGING_WRITES_RATE
LTRND	MEMDAYH	SYSGTORS			N	INSTALLED_REAL_STORAGE
LTRND	MEMDAYH	SYSTEM	Y	2	C	SYSTEM_ID
LTRND	MEMDAYH	VMDCTPRS			N	MEMORY_RESIDENT_IN_BYTES
LTRND	SYSDAYH	CALPTIS			C	LPAR_COLLECTOR_FLAG
LTRND	SYSDAYH	CEC SER			C	CEC_SERIAL_NUMBER
LTRND	SYSDAYH	EPVDATE	Y	3	N	DATE
LTRND	SYSDAYH	EPVHOUR	Y	4	N	HOUR
LTRND	SYSDAYH	LCUPNAME	Y	2	C	LPAR_NAME
LTRND	SYSDAYH	LPARMIPS			N	LPAR_CPU_MIPS_USED
LTRND	SYSDAYH	MIPS			N	CEC_IFL_MIPS
LTRND	SYSDAYH	SYSTEM	Y	1	C	SYSTEM_ID
LTRND	SYSDAYH	TOTDUR			N	TOTAL_DURATION_IN_THIS_HOUR
LTRND	SIODAYH	CONMS			N	TOTAL_CONNECT_TIME
LTRND	SIODAYH	DISMS			N	TOTAL_DISCONNECT_TIME
LTRND	SIODAYH	EPVDATE	Y	1	N	DATE
LTRND	SIODAYH	EPVHOUR	Y	3	N	HOUR
LTRND	SIODAYH	IOQMS			N	TOTAL_IOSQ_TIME
LTRND	SIODAYH	PNDMS			N	TOTAL_PENDING_TIME
LTRND	SIODAYH	SSCH			N	TOTAL_SSCH
LTRND	SIODAYH	SYSTEM	Y	2	C	SYSTEM_ID



## **6. Customer support**

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

[epv.support@epvtech.com](mailto:epv.support@epvtech.com)

For any other issue about EPV for zLINUX please email:

[epv.info@epvtech.com](mailto:epv.info@epvtech.com)



## Related documentation

The following manuals complement the information provided in this manual:

- *EPV for zLINUX V15 Installation and Customization Guide*
- *EPV for zLINUX V15 Preparing Input for a Demo*
- *EPV for zLINUX V15 Release Notes*
- *EPV for zLINUX V15 List of Views*
- *EPV V15 User Interface*
- *EPV V15 Operations Guide*