

EPV Technologies

Newsletter



25 July 2005 - Number 7

Past numbers of this newsletter are available on the web at <http://www.epvtech.com>

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This message contains news related to EPV products produced and distributed by EPV Technologies.

The EPV products suite answer problems such as **Managing Performance, Tuning and Capacity Planning** on the most common platforms, **allowing huge savings on HW and SW costs.**

Greater details and information on EPV products and solutions can be found at <http://www.epvtech.com> or writing to epv.info@epvtech.com.

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1) Tech Papers

The mystery of the *** Performance Index**

Fabio Massimo Ottaviani – EPV Technologies

White paper – WLM series

Looking at the RMF workload activity report sometimes you can see a ***** performance index value. What does it mean ?

The first thing to know is that this “strange value” can appear only when a Percentile Response time goal is assigned to a Service Class period. To understand the reason why it happens it is important to be aware of the way WLM calculates the performance index in this case.

*If you want to receive the white paper you can reply to this e-mail writing "The mystery of the **** Performance Index" in the subject*

2) Tech Notes - EPV Parser for SMF

Product Announcement - EPV Parser for SMF

The product EPV Parser for SMF is now in General Availability.

The product interprets SMF records to produce sequential files and/or loads them in a SQL database.

There are no pre requisites.

The product can be installed in z/OS, Unix, Linux and Windows environments.

The following records are currently supported:

- RMF 70, 71, 72, 73, 74, 75 and 78;
- SMF 30, 101, 110, 116, 120;
- IMS FA (produced by Mainview for IMS).

3) Tech Support – Changes to EPV for z/OS version 5

Following is a list of all the changes to version 5 of EPV for z/OS. The current version is 5.46. Enhancements are reported in [Blue](#).

VERSION 5.46
MODIFICATIONS

46 DATE: 14-JUL-2005
TYPE: CORRECTION
CHANGE: 4HR ROLLING AVERAGE GREATER THEN TOTAL CEC MSU VALUE
CAUSED BY ROUNDING
MEMBERS: MHTMRESA

45 DATE: 11-JUL-2005
TYPE: CORRECTION
CHANGE: CORRECTED NEGATIVE USED CEC MIPS AND MSU VALUES
CAUSED BY ROUNDING
MEMBERS: MHTMRESA

44 DATE: 07-JUL-2005
TYPE: CORRECTION
CHANGE: ELIMINATED BY STATEMENT NOT NEEDED IN WKLSTAT MACRO
MEMBERS: MHTMWKLA

- 43 DATE: 06-JUL-2005
TYPE: CORRECTION
CHANGE: CORRECTED MSU CALCULATION FOR LPAR.
MISLEADING MSU RESULTS FOR INTERVALS WHICH RESULTED
LARGER THEN 3600 SECONDS.
THE CALCULATION NOW USES THE REAL DURATION OF THE RMF
INTERVAL.
MEMBERS: MRESA
- 42 DATE: 06-JUL-2005
TYPE: CORRECTION
CHANGE: CORRECTED MIPS CALCULATION FOR SYSTEM. NOW MIPS
CALCULATION IS BASED ON TOTAL CPU ACTIVE TIME AND
NOT ON THE AVERAGE NUMBER OF CPUS FOR SYSTEM.
IN SOME CASES THE SUM OF THE AVERAGE NUMBER OF CPUS WAS
HIGHER THEN THE REAL NUMBER OF CPUS.
MEMBERS: MWKLA,MRESA,UR70
- 41 DATE: 27-JUN-2005
TYPE: CORRECTION
CHANGE: DIVISION BY 0 ERROR WHEN NRIFAS EQ 0
MEMBERS: MWKLA
- 40 DATE: 26-JUN-2005**
TYPE: ENHANCEMENT
CHANGE NOW EPV CONTAINS IFA AND IFE CONFIGURATION AND
WORKLOAD
ANALYSIS
MEMBERS: UMDETA, UC70, UC72GO, UC70PR, UW70, UW70PR, UW72GO, UW30V
MWKLA, MHTMWKLA, UR70, UR70PR, MHTMRESA
- 39 DATE: 23-JUN-2005**
TYPE: ENCHANCEMENT
CHANGE: ADDED SCROLL ABILITY TO ALL TABLES
MEMBERS: MHTMWKLA
ACTIONS: SUBSTITUTE EPV_SCRIPT.JS IN JAVA DIRECTORY
ADD EPV_CONFIG.TXT IN JAVA DIRECTORY
- 38 DATE: 23-JUN-2005**
TYPE: ENCHANCEMENT
CHANGE: ADDED ADDITIONAL LINK FOR SYSTEM CEC AND WLC USAGE
TABLES. TABLE CAPTURE RATIO MOVED AFTER AVG SYSTEM LOAD
TABLE.
MEMBERS: MHTMWKLA
- 37 DATE: 19-MAY-2005
TYPE: CORRECTION
CHANGE: AVOID DIVISION BY 0 IN WEBJC DATASET.
MEMBERS: MWKLA

- 36 DATE: 19-MAY-2005
TYPE: CORRECTION
CHANGE: MODIFIED USEREXITS TO CORRECT LPAR DISPATCH TIME
FOR DEDICATED CPUS AND LCPUWAIT=YES
MEMBERS: UW70PR, UR70PR
- 35 DATE: 12-MAY-2005
TYPE: ENHANCEMENT
CHANGE: ADDED ADDRESS SPACE MSU VALUE IN WORKLOAD VISION
SYSTEM TOP ADDRESS SPACE TABLE.
MEMBERS: MHTMWKLA
- 34 DATE: 09-MAY-2005
TYPE: ENHANCEMENT
CHANGE: ADDED DETAIL ADDRESS MSU DETAIL HTML TABLE
SYSTEM WORKLOADS HTML TABLE NOW CONTAIN SOFTWARE MSU
MEMBERS: MWKLA,MHTMWKLA
- 33 DATE: 09-MAY-2005
TYPE: ENHANCEMENT
CHANGE: ADDED CEC MSU UTILIZATION IN RESOURCE VISION
MEMBERS: UR70PR,MRESA,MHTMRESA
- 32 DATE: 09-MAY-2005
TYPE: ENHANCEMENT
CHANGE: ADDED DETAIL ADDRESS CPU DETAIL.
MEMBERS: MHTMWKLA
- 31 DATE: 09-MAY-2005
TYPE: ENHANCEMENT
CHANGE: NOW ALL TABLES IN THE THROUGHPUT DAY PROFILE TRENDS
CONTAIN THE MAXIMUM OR TOTAL VALUES FOR EACH TABLE ROW.
MEMBERS: MHTMTRND
- 30 DATE: 05-MAY-2005
TYPE: ENHANCEMENT
CHANGE: NOW PERFORMANCE INDEXES IN BUCKET 14 ARE REPRESENTED
AS '***'. SIMILAR TO RMF.
MEMBERS: MHTMWKLA
- 29 DATE: 05-MAY-2005
TYPE: ENHANCEMENT
CHANGE: ADDED IRD AND WLC VARIABLES IN TYPE70PR
MODIFIED WEIGHT CALCULATION FOR LPAR WHEN IRD IS ACTIVE
CONFIGURATION VISION CONTAINS CEC MSU AND CEC SU
MIN AND MAX WEIGHTS FOR PARTITON
WORKLOAD VISION NOW PROVIDES DEFINED CAPACITY
MOVING 4 HOUR AVERAGE AND PCT LPAR SOFT CAPPING
MEMBERS: UMDETA,MCONF,MHTMCONF,UC70PR
UW70PR,MWKLA,MHTMWKLA

28 DATE: 12-APR-2005

TYPE: ENHANCEMENT

**CHANGE: ADDED AVG CPU AND TOTAL CPU HTML TABLES IN WEB
WORKLOAD**

VISION.

**ADDED AVG CPU AND TOTAL CPU HTML TABLES IN TREND WEB
DAY PROFILE VISION.**

MEMBERS: MWKLA,MHTMWKLA,MHTMTRND

27 DATE: 07-APR-2005

TYPE: ENHANCEMENT

**CHANGE: ADDED CRITICAL CPU AND STORAGE CRITICAL FLAGS IN
CONFIGURATION VISION. WORK MANAGER FLAG REMOVED.**

MEMBERS: UMDETA,UC72GO,MHTMCONF

26 DATE: 06-APR-2005

TYPE: CORRECTION

**CHANGE: AVAILABLE LOW IMPACT FRAMES CONTAIN THREE TIMES THE
THE AMOUNT OF REAL MEMORY.**

NOW TOTAL SERVICE CLASS MEMORY USED.

MEMBERS: MRESA,MHTMREST

25 DATE: 06-APR-2005

TYPE: CORRECTION

**CHANGE: LPAR MIPS IN RESOURCE VISION ARE NOT THE SAME AS IN
THE SYSTEM DAY TREND PROFILE MIPS.**

**DIFFERENT RMF INTERVALS FOR DIFFERENT SYSTEMS AND
MISSING SYSTEM RMF INTERVALS ON THE SAME CEC CAUSE
THIS PROBLEM.**

NOW EACH LPAR WILL CONTAIN ITS SYSTEM CPU BUSY.

**THE PHYSICAL LPAR PERCENT CHOSEN IS THE LPAR WHICH
CONSUMED THE MOST CPU DISPATCH TIME ON THE SAME CEC.**

**THE LPAR PERCENT IS CALCULATED FROM THE EXISTING
INTERVALS.**

MEMBERS: MRESA,MWKLA,UR70

24 DATE: 04-APR-2005

TYPE: CORRECTION

**CHANGE: APPLICATION STATE SAMPLES MOVED TO SECTION
TRANSACTION STATES , ACTIVE STATES LABEL CHANGED
TO SUBSYSTEM ACTIVE STATES AND COSMETIC CHANGE TO
DISTINGUISH BETWEEN TRANSACTION STATES AND DELAYS
IN WORK MANAGER HTML TABLE.**

**APPLICATION STATE DELAYS REMOVED FROM TOTAL DELAYS
CALCULATION IN UW72DL.**

MEMBERS: MHTMWKLA,UW72DL

23 DATE: 04-APR-2005

TYPE: CORRECTION

**CHANGE: THE BUS UTILIZATION ALWAYS CONTAINED THE AVERAGE CEC
BUS UTILIZATION. STATISTICS CHANGED FROM SUM TO MAX AND**

SYSTEM BUS CHANNEL LINKS REMOVED.
MEMBERS: MRESA,MHTMRESA
ACTIONS: ADD DEVNR IN UCDCOL
ADD VOLSER IN UC74CA

22 DATE: 24-FEB-2004

TYPE: ENHANCEMENT

**CHANGE: NOW ALL DISK MERGES AND REPORTS ARE BASED ON THE
COMBINATION OF VOLSER AND DEVNR**

MEMBERS: UCDCOL,UC74CA,MCONF,MHTMCONF,MRESA,MHTMRESA

ACTIONS: ADD DEVNR IN UCDCOL

ADD VOLSER IN UC74CA

21 DATE: 24-FEB-2004

TYPE: ENHANCEMENT

CHANGE: NEW RESOURCE ANALYSIS CHANNEL STATISTICS

MEMBERS: UMDETA, MRESA, MHTMRESA

ACTIONS: ADD VARIABLES PBUSY SMF73PWU SMF73PRU IN UMDETA

20 DATE: 24-FEB-2004

TYPE: ENHANCEMENT

CHANGE: ADDED SERVICE CLASS IMPORTANCE IN WORKLOAD REPORTS

MEMBERS: MWKLA, MHTMWKLA

19 DATE: 24-FEB-2004

TYPE: ENHANCEMENT

CHANGE: ADDED SERVICE CLASS TO JOBS DATASET

MEMBERS: MWKLA, MHTMWKLA

18 DATE: 24-FEB-2004

TYPE: ENHANCEMENT

CHANGE: NEW HTML PAGE FOR WORK MANAGER DELAYS

MEMBERS: MHTMWKLA

17 DATE: 24-FEB-2004

TYPE: ENHANCEMENT

CHANGE: NEW HTML PAGE FOR RESPONSE AND PERCENTILE OBJECTIVES

MEMBERS: MHTMWKLA

16 DATE: 24-FEB-2005

TYPE: ENHANCEMENT

**SYMPTOM: DUPLICATE SYSTEMS IN DIFFERENT CECSERS CAUSED ERRORS
IN THE TRANSPOSE PROCEDURE.**

CHANGE: NOW STATISTICS ARE BASED ONLY ON THE SYSTEM NAME

MEMBERS: MHTMREST

15 DATE: 10-FEB-2004

TYPE: ENHANCEMENT

CHANGE: ADDED NRCPUS TO MWKLA.TSOUSERS DATASET FOR ALERT CALC

MEMBERS: MWKLA

- 14 DATE: 04-FEB-2004**
TYPE: ENHANCEMENT
CHANGE: CREATED NEW DATASET MWKLA.WMDEL (WORK MANAGER DELAY)
MEMBERS: MWKLA
- 13 DATE: 04-FEB-2004**
TYPE: ENHANCEMENT
CHANGE: CREATED NEW USEREXIT UW72DL (WORK MANAGER DELAY)
MEMBERS: UW72DL
- 12 DATE: 04-FEB-2004**
TYPE: ENHANCEMENT
CHANGE: CREATED NEW DATASET MDETA.TYPE72DL (WORK MANAGER DELAY)
MEMBERS: UMDETA
- 11 DATE: 04-FEB-2004**
TYPE: ENHANCEMENT
CHANGE: NEW HTML PAGE FOR SERVICE CLASS GENERAL DELAYS
MEMBERS: MHTMWKLA
- 10 DATE: 04-FEB-2004**
TYPE: ENHANCEMENT
CHANGE: CREATED NEW DATASET MWKLA.DEL72GO
MEMBERS: MWKLA
- 9 DATE: 04-FEB-2004**
TYPE: ENHANCEMENT
CHANGE: CREATED NEW DATASET WORK.DELAY72
MEMBERS: UW72GO
- 8 DATE: 04-FEB-2004**
TYPE: ENHANCEMENT
CHANGE: ADDED VARIABLES:
PCTUSCUS PCTUSIOU PCTDLCDE PCTDLIOD PCTDLCCA
PCTDLSWI PCTDLMPL PCTDLQ PCTDLAPR PCTDLACO PCTDLSWI
PCTDLVIO PCTDLHSP PCTDLCHS PCTDLSPV PCTDLSVI PCTDLSHS
PCTDLSSW PCTDLSMP PCTDLTDQ PCTDLUNK PCTDLIDL PCTDLPQU
PCTDLPDE IN DATASET MDETA.TYPE72GO
MEMBERS: UMDETA
- 7 DATE: 04-FEB-2004**
TYPE: ENHANCEMENT
CHANGE: ADDED RESPONSE (RESP) AND WORKLOAD MANAGER (WM)
INDICATORS IN SYSTEM PERFORMANCE INDEX VIEW
ADDED RESPONSE TIME DISTRIBUTION PAGE FOR SERVICE CLASS
MEMBERS: MHTMWKLA

- 6 **DATE: 04-FEB-2004**
TYPE: ENHANCEMENT
CHANGE: ADDED WORK MANAGER INDICATOR IN SYSTEM WORKLOAD MANAGER VIEW.
MEMBERS: MHTMCONF
- 5 **DATE: 04-FEB-2004**
TYPE: ENHANCEMENT
CHANGE: ADDED VARIABLE TRANSEXC IN DATASETS TYPE72GO, MWKLA.TYPE72GO
MEMBERS: UC72GO UW72GO UMDETA MWKLA
- 4 **DATE: 25-JAN-2004**
TYPE: ENHANCEMENT
CHANGE: ADDED SPECIFIC ALERTS FOR PCU,SSID,SYSTEM,DISK IO AND IOSQ TIME.
MEMBERS: MHTMRESA,MHTMREST,ALERTS
- 3 **DATE: 25-JAN-2004**
TYPE: ENHANCEMENT
CHANGE: ADDED SPECIFIC ALERTS FOR COUPLING FACILIY AND THEIR STRUCTURES
ALERTS ASYNTIME AND SYNCTIME REMOVED
MEMBERS: MHTMRESA,MHTMREST
- 2 **DATE: 25-JAN-2004**
TYPE: ENHANCEMENT
CHANGE: IORATE PARAMETER MOVED FROM ALERT TO CONFIG MEMBER
MEMBERS: CONFIG
- 1 **DATE: 25-JAN-2004**
TYPE: CORRECTION
SYMPTOM: MISSING VALUES IN COUPLING FACILITY ACTIVITY TIMES.
CHANGE: CHANGED THE ARITHMETIC SUM TO THE SAS SUM FUNCTION
MEMBERS: MHTMRESA

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