



# EPV V15 User Interface



Supporting  
**EPV products suite**

**December 2019**



**All the mentioned trademarks belong to their respective companies.**



# Contents

1	Introduction.....	5
1.1	EPV starting page and other fixed HTML pages.....	5
1.2	Help folders.....	7
1.3	JAVA folder.....	7
1.4	Web Browser support.....	10
1.5	EPV products menu .....	10
1.6	EPV for z/OS menu.....	11
1.6.1	Management Summary .....	11
1.6.2	Fast Path.....	11
1.6.3	Exceptions.....	12
1.6.4	Configuration .....	12
1.6.5	Workloads .....	12
1.6.6	Throughput.....	13
1.6.7	Resources .....	13
1.6.8	I/O Resources.....	13
1.6.9	Daily Trends.....	14
1.6.10	Weekly Trends .....	15
1.6.11	Monthly Trends.....	16
1.6.12	WLC.....	16
1.6.13	User .....	17
1.6.14	User Trends .....	17
2	Functions.....	18
2.1	Navigation functions.....	18
2.2	Navigation bar.....	20
2.3	Table functions.....	20
2.4	EPV service menu .....	22
2.5	Combo box function.....	23
2.6	Sort by column function.....	23
2.7	Instant info .....	23
2.8	Threshold violations.....	24
3	Customization .....	25
3.1	EPV_CONFIG_V15.TXT.....	25
3.2	User fast paths.....	29
3.3	Open Graph's Note function.....	30
3.4	Top Disks in Graphs .....	30
4	Operations .....	31
4.1	Starting the EPV products web site.....	31
4.2	Browsing the HTML pages.....	31
	Related documentation.....	32



## About this manual

This manual provides a description of the User Interface V15 which applies to all EPV V15 products.



# 1 Introduction

The aim of this document is to describe the functions and the objects of the Enterprise Performance Vision (EPV) “User Interface”.

The EPV User Interface is based on the following objects that need to be copied from the installation disk:

- EPV starting page contained in the top level EPV folder;
- HTML fixed pages contained in the UIHTML folder; under the top level EPV folder;
- HTML help pages contained in the “\*DOC” folders under the top level EPV folder; the \* character represents a prefix for the EPV product identification (e.g. “ZOS” or “DB2”);
- Javascript files, style sheets (CSS) and configuration files in TXT format contained in the JAVA directory under the top level EPV folder;
- images contained in the IMG folder under the top level EPV folder.

**WARNING:** It’s important to note that only the EPV\_CONFIG\_V15.TXT file can be customized by EPV Users. Modification of other objects may alter products behaviour or even cause malfunctions.

In case of maintenance or migration to a new version all EPV\_CONFIG\_V15.TXT customizations have to be re-applied to the correspondent file provided by the new user interface.

In addition, a USER\_FASTPATHS folder is provides to allow users to create a direct path to a set of EPV views organized as desired (see chapter 3.2).

## 1.1 EPV starting page and other fixed HTML pages

The top level EPV folder contains only the START.HTML page: it is the EPV products starting HTML page.

The UIHTML folder contains the following fixed HTML pages:

- HOME.HTML,
- ABOUT.HTML,
- CONTRIBUTORS.HTML,
- FAVOURITES.HTML,
- SCROLL.HTML,
- EPVCTREE,
- EPVDTREE,



- EPVLTREE,
- EPVQTREE,
- EPVZTREE,
- DRESEARCH,
- LRESEARCH,
- QRESEARCH,
- ZRESEARCH.

Opening this page your browser will load the HOME.HTML pages that build the EPV Main Menu showed below.



**Figure 1**

All the other pages can be accessed by clicking on the EPV logo on the top-right of the page:

- ABOUT.HTML provides useful information about installed EPV products and their versions;
- CONTRIBUTORS.HTML contains a list of all the people that contributed to improve EPV products;
- FAVOURITES.HTML used to save in a browser cookie the links to the favourite HTML pages;
- SCROLL.HTML allows the vertical or horizontal scrolling of images and texts, exceeding the size of the monitor to display the parts that are not visible.
- EPVCTREE.HTML provides a tree view of the entire structure of the EPV for CICS product pages and tables;



- 
- CRESEARCH.HTML provides a useful tool allowing to perform a quick search of one or more word inside the EPV for CICS help pages.
  - EPVDTREE.HTML provides a tree view of the entire structure of the EPV for DB2 product pages and tables;
  - DRESEARCH.HTML provides a useful tool allowing to perform a quick search of one or more word inside the EPV for DB2 help pages.
  - EPVLTREE.HTML provides a tree view of the entire structure of the EPV for zLINUX product pages and tables;
  - LRESEARCH.HTML provides a useful tool allowing to perform a quick search of one or more word inside the EPV for zLINUX help pages.
  - EPVQTREE.HTML provides a tree view of the entire structure of the EPV for WMQ product pages and tables;
  - QRESEARCH.HTML provides a useful tool allowing to perform a quick search of one or more word inside the EPV for WMQ help pages;
  - EPVZTREE.HTML provides a tree view of the entire structure of the EPV for z/OS product pages and tables;
  - ZRESEARCH.HTML provides a useful tool allowing to perform a quick search of one or more words inside the EPV for z/OS help pages.

## 1.2 Help folders

EPV help files are provided in the following folders:

- CICDOC EPV for CICS;
- DB2DOC EPV for DB2;
- LNXDOC EPV for zLINUX;
- WMQDOC EPV for WMQ;
- ZOSDOC EPV for z/OS.

A help page for every EPV view is provided.  
All the help pages are in English.

## 1.3 JAVA folder

The JAVA folder contains JavaScript files (“.JS”), style sheets (“.CSS”) and a configuration file (“.TXT”):

- EPV\_SHEET\_GLOBAL\_V15.CSS;  
it contains all the default styles related to the HTML objects (HTML, tables, footer, etc.);
- EPV\_SHEET\_STATIC\_V15.CSS;  
it contains all the styles related to the HTML fixed pages layout;
- EPV\_SHEET\_JS\_V15.CSS;



---

it contains all the styles related to the JavaScript functions available in EPV (calendar, help search, fast path etc.);

- EPV\_SHEET\_V15.CSS;  
it contains all the styles used to define the attributes (colours, font size, backgrounds, etc.) of the HTML pages produced every day;
- EPV\_FRAMEWORK\_V15.JS;  
it contains the JavaScript core functions used in the EPV HTML pages;
- EPV\_PRODBAR\_V15.JS;  
it contains all the code needed to manage the EPV product's menu bar;
- EPV\_CALENDAR\_V15.JS;  
it contains the code needed to manage the calendar functions;
- EPV\_DROPDOWN\_V15.JS;  
it contains the code needed whenever a new browser window is prompted, hidden or clicked;
- EPV\_VBSCRIPT\_V15.JS;  
it contains the code that perform the export of a table or of an entire HTML page to Excel;
- EPV\_SORTRP\_V15.JS;  
it contains the code needed to manage all the sort functions;
- EPV\_CTREE\_V15.JS;  
it contains all the code needed by the EPVCTREE function providing the tree of the EPV for CICS views;
- EPV\_DTREE\_V15.JS;  
it contains all the code needed by the EPVDTREE function providing the tree of the EPV for Db2 views;
- EPV\_LTREE\_V15.JS;  
it contains all the code needed by the EPVLTREE function providing the tree of the EPV for zLINUX views;
- EPV\_QTREE\_V15.JS;  
it contains all the code needed by the EPVQTREE function providing the tree of the EPV for MQ views;
- EPV\_ZTREE\_V15.JS;  
it contains all the code needed by the EPVZTREE function providing the tree of the EPV for z/OS views;





- EPV\_FAVOURITES\_V15.JS;  
it contains all the code needed to manage the EPV favourites function;
- EPV\_HELP\_V15.JS;  
it contains all the code needed to manage the help-search function;
- EPV\_FASTPATH\_V15.JS;  
it contains the code needed to manage the fast path function available in the EPV for z/OS product;
- EPV\_GRAPH\_V15.JS;  
it contains the code needed for some functions used by the EPV Graph for z/OS product.
- EPV\_SCRIPT\_V15.JS;  
it contains the code needed to manage all the other functions;
- EPV\_WIDGETS\_V15.JS;  
it contains the code needed to dynamically create the widgets in the Management Summary page of the EPV for z/OS product;
- FPZOS.TXT;  
It contains some configuration parameters needed by the EPV for z/OS fast path function.
- EPV\_FOCALPOINT\_V15.JS;  
it contains all the code needed by the EPV Focal Point page;
- EPV\_SHEET\_FOCALPOINT\_V15.JS;  
it contains all the CSS styles needed by the EPV Focal Point page;
- EPV\_SHEET\_FOCALPOINT\_MOBILE\_V15.JS;  
it contains all the CSS styles needed by the mobile version of the EPV Focal Point page;
- EPV\_GRAPH\_PLOT\_V15.JS;  
it contains all the code needed to dynamically create graphs starting from tables.



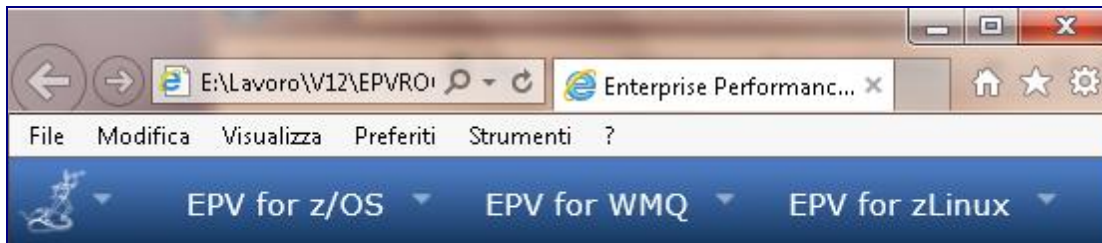
---

## 1.4 Web Browser support

EPV supports all the most used web browsers in the market such as MS Internet Explorer, Mozilla Firefox, Google Chrome and MS Edge.

## 1.5 EPV products menu

The main HTML page named START.HTML located in the EPV root folder loads the EPV products menu showing all the installed products at the top of the screen.



**Figure 2**

It checks for each product folder (i.e. ZOSHTML) and inside each of them a text file (i.e. ZOS.TXT) which contains the specific product menu structure.

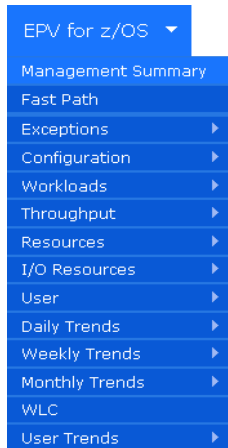
In the next chapter we will provide a short description of the EPV for z/OS product menu. All the other products use a similar menu structure.



## 1.6 EPV for z/OS menu

EPV for z/OS provides five entry types: management summary, fast path, daily visions, trend visions WLC vision<sup>1</sup> and user visions.

When using daily oriented sub menus the first thing to do is choose the day to analyze. The number of days available in the sub menus can be customized by modifying the NAVIGATE parameter in the CONFIG member of the EPV library. The default value is 10.

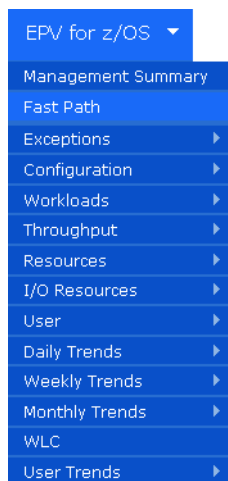


### 1.6.1 Management Summary

The management summary is a composite view of the metrics most relevant to managers.

This single view shows information about CPU, zAAP and zIIP utilization; disk and tape storage used and available space. The MSU used in the 4-hour rolling average are also reported and compared month by month with a user provided baseline.

Finally throughput information are provided for CICS, IMS, TSO and WebSphere transactions, batch jobs, DDF requests and WebSphere MQ gets and puts.



### 1.6.2 Fast Path

Fast Path is a function greatly increasing EPV usability. By default only the EPV fast path is available (see chapter 3.2 for user fast paths); it provides a quick and easy way to access a predefined set of views organized by Capacity Management activity; they are:

- DAILY QUICK CHECK
- STORAGE ANALYSIS
- I/O PERFORMANCE ANALYSIS
- STORAGE CAPACITY PLANNING
- CEC PERFORMANCE ANALYSIS
- WORKLOAD PERFORMANCE ANALYSIS
- BATCH / TSO APPLICATION PERFORMANCE
- CICS APPLICATION PERFORMANCE
- IMS APPLICATION PERFORMANCE
- DDF APPLICATION PERFORMANCE
- WAS APPLICATION PERFORMANCE
- CEC CAPACITY PLANNING

<sup>1</sup> The WLC vision has been included in SW-Cost vision in EPV for z/OS V15.



### 1.6.3 Exceptions

This menu is the focal point for all exceptions that were found in any of the HTML pages. From this entry one can easily drill down to the HTML page containing the exception. Exceptions are grouped by system and shared resource; a comprehensive view presenting all the exceptions by type is also provided.

EPV for z/OS ▾	
Management Summary	
Fast Path	
Exceptions	09-APR-2014
Configuration	08-APR-2014
Workloads	07-APR-2014
Throughput	06-APR-2014
Resources	05-APR-2014
I/O Resources	04-APR-2014
User	More...
Daily Trends	
Weekly Trends	
Monthly Trends	
WLC	
User Trends	

### 1.6.4 Configuration

This menu provides a detailed view of hardware and software configuration, including total DASD space by provider and physical control unit. EPV provides a global view of shared resources, such as machines (CEC), Coupling Facilities and Storage Processors by correlating data produced by different sources and systems. EPV for z/OS audits configuration changes at the hardware, system and software level and provides a history of any changes that have occurred.

EPV for z/OS ▾	
Management Summary	
Fast Path	
Exceptions	
Configuration	09-APR-2014
Workloads	08-APR-2014
Throughput	07-APR-2014
Resources	06-APR-2014
I/O Resources	05-APR-2014
User	04-APR-2014
Daily Trends	More...
Weekly Trends	
Monthly Trends	
WLC	
User Trends	

### 1.6.5 Workloads

This menu provides a complete vision of the workloads running on your systems. Utilising extensive drill-down capabilities, you can explore performance and consumption of workloads, subsystems, address spaces, WLM service/report classes. Detailed views to analyze WLM service/report class Performance Indexes and delays are also provided.

EPV for z/OS ▾	
Management Summary	
Fast Path	
Exceptions	
Configuration	
Workloads	09-APR-2014
Throughput	08-APR-2014
Resources	07-APR-2014
I/O Resources	06-APR-2014
User	05-APR-2014
Daily Trends	04-APR-2014
Weekly Trends	More...
Monthly Trends	
WLC	
User Trends	



EPV for z/OS	
Management Summary	
Fast Path	
Exceptions	
Configuration	
Workloads	
Throughput	09-APR-2014
Resources	08-APR-2014
I/O Resources	07-APR-2014
User	06-APR-2014
Daily Trends	05-APR-2014
Weekly Trends	04-APR-2014
Monthly Trends	More...
WLC	
User Trends	

### 1.6.6 Throughput

This menu provides a complete vision of systems throughput in terms of:

- Batch jobs
- TSO transactions
- CICS transactions
- IMS transactions
- DDF requests
- WebSphere MQ gets and puts
- WebSphere transactions

Utilising extensive drill-down capabilities, you can navigate from overall sysplex throughput to a specific job or transaction.

EPV for z/OS	
Management Summary	
Fast Path	
Exceptions	
Configuration	
Workloads	
Throughput	
Resources	09-APR-2014
I/O Resources	08-APR-2014
User	07-APR-2014
Daily Trends	06-APR-2014
Weekly Trends	05-APR-2014
Monthly Trends	04-APR-2014
WLC	More...
User Trends	

### 1.6.7 Resources

This menu provides an integrated enterprise vision of the health of all critical system resources, especially those shared amongst different z/OS systems. It shows resources such as processors (including zAAP, zIIP and crypto), memory, coupling facilities and CTC.

EPV for z/OS	
Management Summary	
Fast Path	
Exceptions	
Configuration	
Workloads	
Throughput	
Resources	
I/O Resources	09-APR-2014
User	08-APR-2014
Daily Trends	07-APR-2014
Weekly Trends	06-APR-2014
Monthly Trends	05-APR-2014
WLC	04-APR-2014
User Trends	More...

### 1.6.8 I/O Resources

This menu provides an integrated enterprise vision of the health of all critical I/O resources, especially those shared amongst different z/OS systems. It shows resources such as channels, physical control units and disks (including PPRC information).



EPV for z/OS ▾	
Management Summary	
Fast Path	
Exceptions ▶	
Configuration ▶	
Workloads ▶	
Throughput ▶	
Resources ▶	
I/O Resources ▶	
User ▶	
Daily Trends ▶	System Daily Trends
Weekly Trends ▶	Workloads Daily Trends
Monthly Trends ▶	Throughput Daily Trends
WLC	Resources Daily Trends
User Trends ▶	I/O Resources Daily Trends

### 1.6.9 Daily Trends

When using daily trends, you can choose the type of trend to analyze:

- System Daily Trends; this menu shows the total daily CPU, zAAP and zIIP usage and the total number of disk and tape EXCPs executed by shift and system; WLM performance Index trends are also provided.
- Workloads Daily Trends; this menu shows the total daily CPU, zAAP and zIIP usage and the total number of disk and tape EXCPs executed by shift and workload;
- Throughput Daily Trends; this menu shows the total daily CICS, IMS, DDF, MQ, WEBSphere, TSO transactions and BATCH jobs executed by shift and subsystem.
- Resources Daily Trends; this menu shows the total daily CEC and system CPU utilization, MEMORY usage and COUPLING FACILITY activity by shift.
- I/O Resources Daily Trends; this menu shows the total daily CEC and system disk throughput, system disk I/O rate and response time, total physical control unit I/O rate, response time and PPRC throughput by shift.

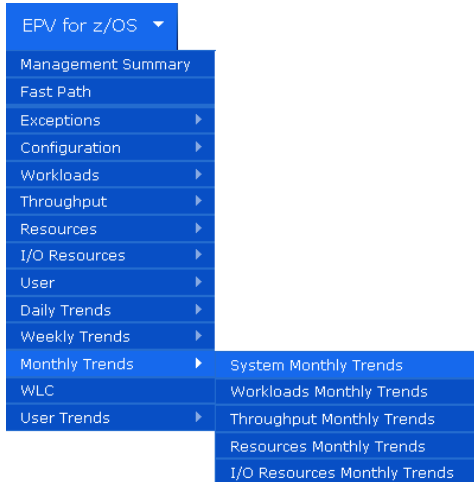
An advanced statistical methodology highlights positive or negative growth trends that lie outside of the normal distribution.



### 1.6.10 Weekly Trends

When using weekly trends you can choose the type of trend to analyze:

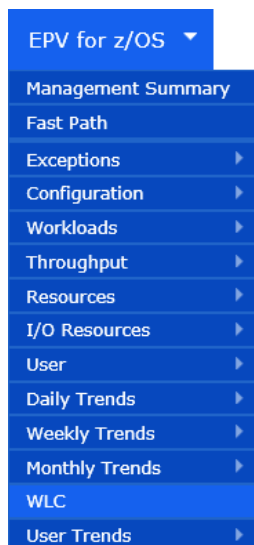
- System Weekly Trends; this menu shows the total weekly CPU, zAAP and zIIP usage and the total number of disk and tape EXCPs executed by shift and system.
- Workloads Weekly Trends; this menu shows the total weekly CPU, zAAP and zIIP usage and the total number of disk and tape EXCPs executed by shift and workload;
- Throughput Weekly Trends; this menu shows the total weekly CICS, IMS, DDF, MQ, WebSphere, TSO transactions and BATCH jobs executed by shift and subsystem.
- Resources and I/O Resources Weekly Trends; this menu show the total weekly system CPU utilization, MEMORY usage, DISK I/O rate, DISK and TAPE SPACE used. This menu also provides access to the EPV indexes. These indexes automatically track the utilization ratio between couples of different resources over time. EPV indexes are self adaptive, user specific, rules of thumb. They can be a powerful tool for performance analysts if carefully analyzed and interpreted especially in capacity planning activities.



### 1.6.11 Monthly Trends

When using monthly trends you can choose the type of trend to analyze:

- System Monthly Trends; this menu shows the total monthly CPU, zAAP and zIIP usage and the total number of disk and tape EXCPs executed by shift and system.
- Workloads Monthly Trends; this menu shows the total monthly CPU, zAAP and zIIP usage and the total number of disk and tape EXCPs executed by shift and workload.
- Throughput Monthly Trends; this menu shows the total monthly CICS, IMS, DDF, MQ, WEBSPHERE, TSO transactions and BATCH jobs executed by shift and subsystem.
- Resources and I/O Resources Monthly Trends; this menu show the total monthly system CPU utilization, MEMORY usage, DISK I/O rate, DISK and TAPE SPACE used. This menu also provides access to the EPV indexes. These indexes automatically track the utilization ratio between couples of different resources over time. EPV indexes are self adaptive, user specific, rules of thumb. They can be a powerful tool for performance analysts if carefully analyzed and interpreted especially in capacity planning activities.



### 1.6.12 WLC

This menu provides a set of views about the MSU used 4-hour rolling average.

The starting view reports the highest “4 hour rolling average” value for each machine. This is the value used by IBM to charge its monthly software license fee when adopting the VWLC policy.

Other WLC views provide all the information needed to manage the MSU utilization both at system and subsystem level.

Views to analyze the effectiveness of Defined and Group Capacity limits are also provided.





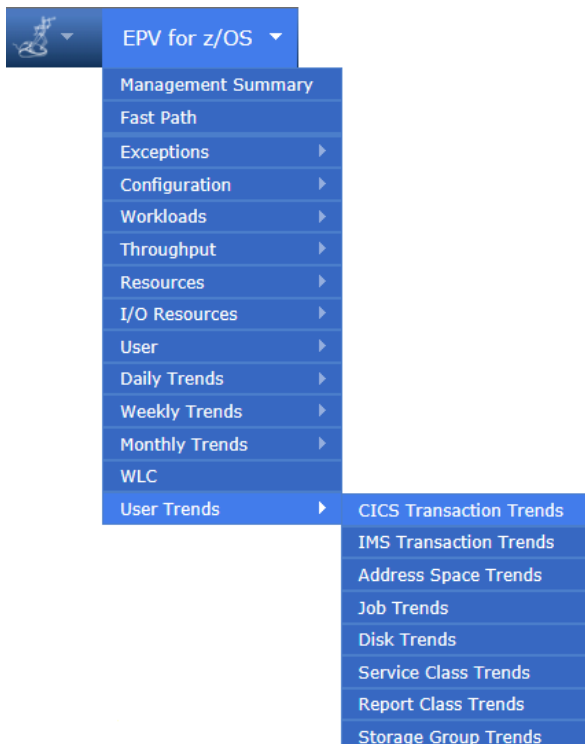
### 1.6.13 User

This menu provides a set of views which can be requested by the user to control the behaviour of specific:

- CICS transactions
- IMS Transactions
- Address Spaces
- Batch jobs
- Disks
- Service Classes
- Report Classes
- Storage Groups

This makes it possible to compare activity in different systems in the same view.

The names of the CICS transactions, IMS transactions, Address Spaces, Batch jobs, Disks, Service and Report Classes to be reported have to be put in the **USRADDR**, **USRCICS**, **USRIMS**, **USRJOBS**, **USRDISK**, **USRSRVC**, **USRRPTC** and **USRSTGR** of the EPV for z/OS userlib library.



### 1.6.14 User Trends

This menu provides a set of views to analyze the trends of specific:

- CICS transactions
- IMS Transactions
- Address Spaces
- Batch Jobs.
- Disks
- Service Classes
- Report Classes
- Storage Groups

requested by the user.



## 2 Functions

### 2.1 Navigation functions



Figure 3

As shown in the figure above, the following navigation functions are provided in each EPV non-graphical product view:



Left arrow (PREVDAY.PNG) - it allows to go to the same view back 1 day;



Right arrow (NEXTDAY.PNG) - it allows to go to the same view ahead 1 day;



Up arrow (TOP.PNG) - it allows to go to the top of the current page;



Compare with Previous Day (PREVCOMP.PNG) - it allows to compare the current day with a previous date; by default, the previous day is set but you can choose any date from the calendar; both vertical and horizontal compare are provided;



Compare with Next Day (NEXTCOMP.PNG) - it allows to compare the current day with a next date; by default the next day is set but you can choose any date from the calendar; both vertical and horizontal compare are provided;



Navigation Calendar (CALENDAR.PNG) - it allows to go to the same view on any day;

Switch

Switch (SWITCH.PNG) - it allows to go to the same view of another system; it is provided only when it is possible to have the same view for different systems; for specific views is also possible to switch the analysed metric (e.g. from CPU to IIP).



The following navigation functions are provided in each EPV graphical product view:



Left arrow (PREVDAY.PNG) - it allows to go to the same view back 1 day;



Right arrow (NEXTDAY.PNG) - it allows to go to the same view ahead 1 day;



Up arrow (TOP.PNG) - it allows to go to the top of the current page;



Compare with Previous Day (PREVCOMP.PNG) - it allows to compare the current day with a previous date; by default the previous day is set but you can choose any date from the calendar; both vertical and horizontal compare are provided;



Compare with Next Day (NEXTCOMP.PNG) - it allows to compare the current day with a next date; by default the next day is set but you can choose any date from the calendar; both vertical and horizontal compare are provided;



Navigation Calendar (CALENDAR.PNG) - it allows to go to the same view on any date.



## 2.2 Navigation bar

A navigation bar at the end of the screen allow to switch from one vision to another inside each product by keeping the date fixed. It only applies to daily visions.

The example below refers to EPV for z/OS.

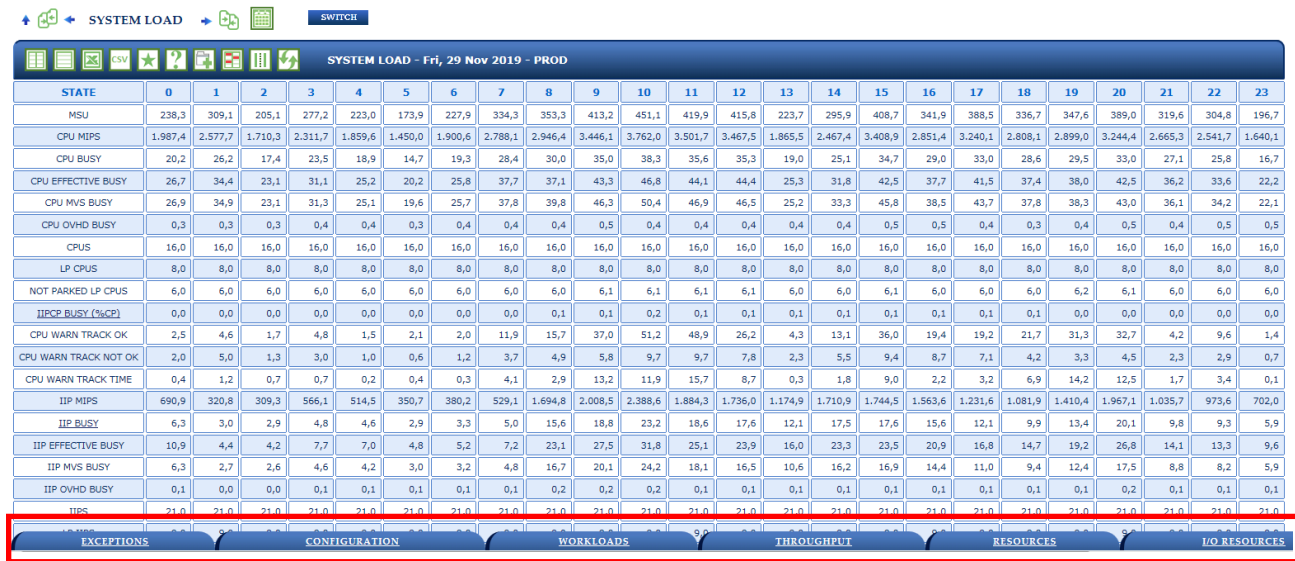


Figure 4

## 2.3 Table functions

EPV usability is enhanced by the following additional functions provided in the header of the tables of each EPV non-graphical product view:



Column Manager (COLMAN.PNG) - it allows to select only the columns you want to be displayed in the table



Scroll Table (SCROLL.PNG) - it formats the table in a box allowing it to scroll vertically while locking the headers; when scrolling horizontally the key columns are locked; the key columns are predefined for each table;



Excel Table Export (EXCEL.PNG) - it allows to export the table content into MS EXCEL;



CSV Table Export (CSV.PNG) - it allows to export the table content into a CSV file.



Add to Favourites (FAVOURITES.PNG) - it creates a link to this table in the EPV main menu under "Favourites"; there is no limit to the number of links that can be added; the Favourites list is specific for each EPV user;



Help (HELP.PNG) - it links to the appropriate page in the help system; a specific help page is provided for each view.



Open table in a new Tab (TTNT.PNG) - it saves the current view in a new tab; it can be used to keep the most interesting information for further analysis.



MinMax Formatting (MINMAX.PNG) - it allows to highlight Min and Max values in view cells depending on filters dynamically applied by the user.



Conditional Formatting (CONDFORM.PNG) - it allows to highlight view cells depending on filters dynamically applied by the user.



Compose Fast Path (CFP.PNG) - it allows to create and manage user fast paths to directly access a predefined set of views organized as desired.



Restore default sort (REFRESH.PNG) - it allows to refresh the view content.

EPV usability is enhanced by the following additional functions provided in the header of the tables of each EPV graphical product view:



Download (DOWNLOAD.PNG) - it allows to download the graph as a .PNG file;



Open graph's note (NOTE\_CREATE.PNG) - it allows to write a note;



Hide all values (HIDE.PNG) - it allows to hide all the graph's series values;



Show all values (SHOW.PNG) - it allows to show all the graph's series values;



Show/hide table (SHOWTABLE.PNG) - it shows and hides the tabular report correlated to the specific graph;



Add to Favourites (FAVOURITES.PNG) - it creates a link to this table in the EPV main menu under "Favourites"; there is no limit to the number of links that can be added; the Favourites list is specific for each EPV user;



Help (HELP.PNG) - it links to the appropriate page in the help system; a specific help page is provided for each view;



Show Top Disks (TOPGRAPH.PNG) - by default it allows to see a table with the top 10 disks response times in descending order. This function is only placed in the header of the I/O Activity reports graphs.



## 2.4 EPV service menu

When clicking on the first icon of the EPV menu in any HTML page you will give the EPV service menu<sup>2</sup>.



This menu gives access to the following functions:

- Home Page – it returns to the home page;
- EPV Focal Point – it opens the EPV Focal Point page which resumes the EPV product status (only when running the EPV Plus product suite);
- EPV Favourites – it provides a complete list of all the favourite views;
- EPV Tree – it provides a complete list in a tree like structure of EPV reports;
- EPV Help Search – it provides a search capability to find one or more key words in the EPV help pages;
- DB Check – it provides the statistics page for EPV databases;
- Contributors – it provides a list of the people who contributed to improving EPV;
- About EPV – it provides details about the installed product versions;
- Export Page – it exports the full HTML page in MS-Excel;
- Get page URI – it creates a copy of the page showing the full URI; it has to be used to export the page to MS-Excel using the provided template when no other option is available;
- Top Page – it goes to top of current page.

<sup>2</sup> When right-clicking in a table cell you'll get the standard browser menu.



### 2.5 Combo box function

On selected views a combo box function allows you to change the metric reported in the table. Depending on the specific table different metrics can be chosen. In the following example by using the combo box you can analyze CPU utilization using MIPS, MSU, % of CEC, number of CPUs or CPI index.

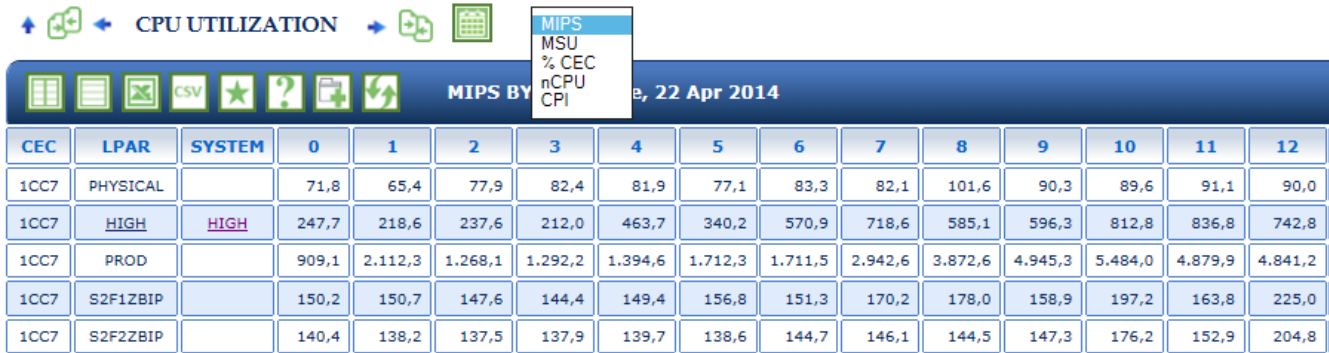


Figure 5

### 2.6 Sort by column function

Most of the EPV tables can be sorted by any column by simply clicking on the column header. The first click will sort the table by descending values. Following clicks will invert the sort order. In the example below the table has been sorted by descending MIPS utilization at hour 8 (between 8:00:00 and 8:59:59); the first address space is the heaviest CPU consumer at that time.

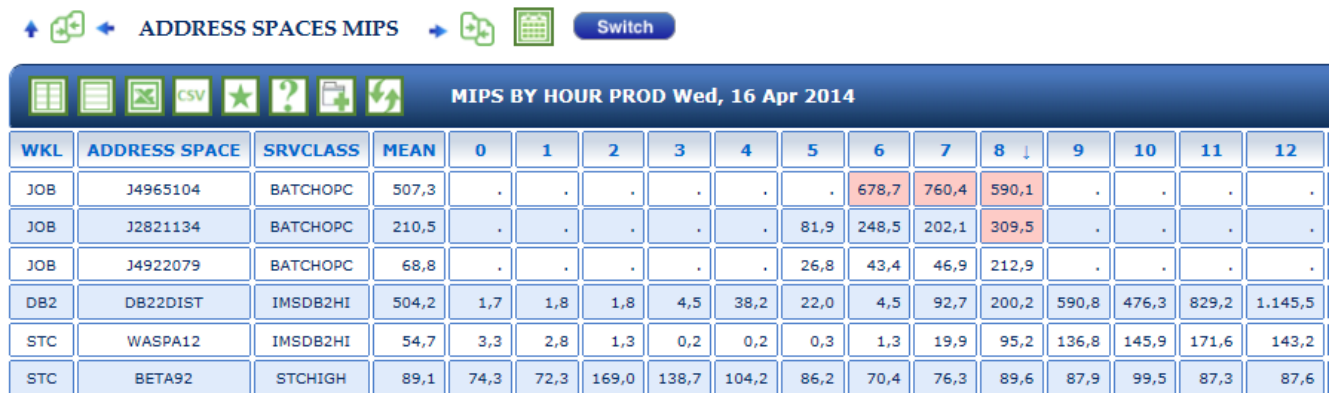


Figure 6

### 2.7 Instant info

A general info function provides instant information by simply putting the mouse on any table cell. In the following example by pointing to the CECSER column you get the estimated capacity in MIPS of the CEC.

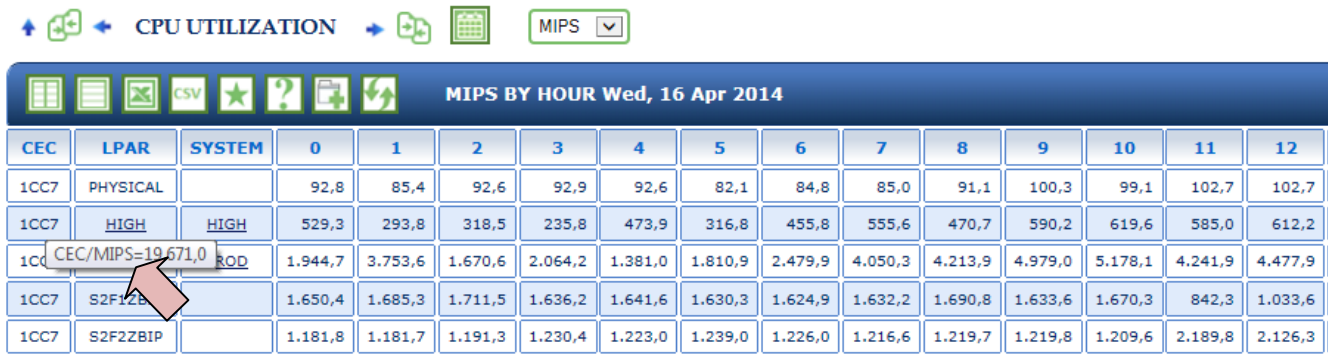


Figure 7

### 2.8 Threshold violations

When a threshold is violated the corresponding cell background is coloured in light red. In the following example, some jobs trespassed the CPU consumptions base threshold assigned to Batch jobs.

The default threshold is ¼ of one processor capacity in the hour. As seen in the previous chapter the total machine capacity is 19.671 MIPS; it has 18 CPUs so each CPU has an average capacity of about 1092 MIPS. The threshold is in this case about 273 MIPS (1092/4).

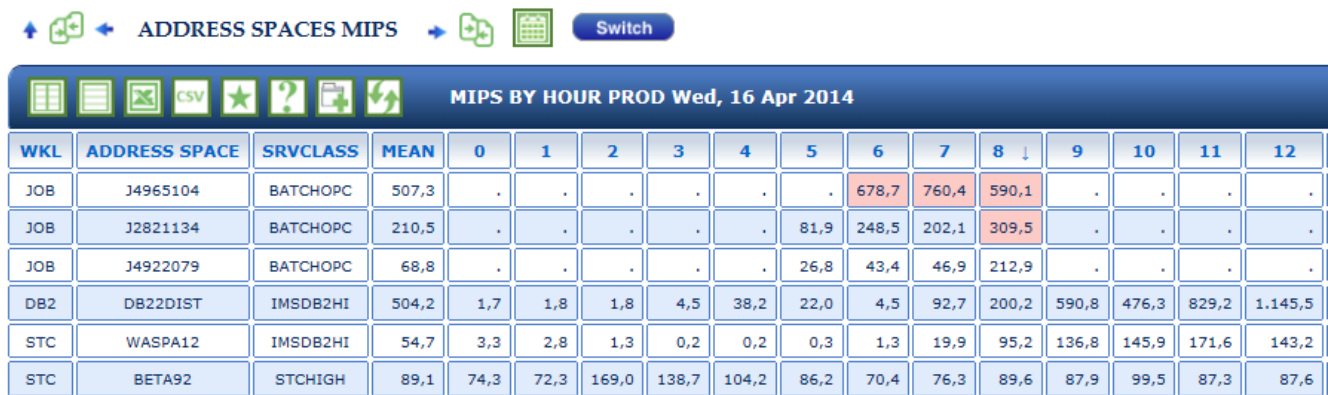


Figure 8

More details about EPV thresholds are discussed in the specific products manuals (see Related documentation).





---

## 3 Customization

The only element of the JAVA folder which can be modified according to the user needs is the CONFIG.TXT.

Users can also create their own fast paths to directly access sets of views organized as desired.

### 3.1 EPV\_CONFIG\_V15.TXT

It is the configuration file in which the user can find some customizable variables to change the EPV layout; they are:

- **FMT**

it allows to sort correctly each table in HTML pages. By default this variable is equal to **E** (European format); other possible settings are **U** (USA format) and **S** (Swiss format). To set this variable properly you should match the **FMT** parameter in the **CONFIG** member located in your *userlib* library.

- **sortmin**

it sets the minimum number of rows for sortable tables.

- **sortmax**

it sets the maximum number of rows for sortable tables.

- **bookexp**

it sets the expiration date of the user's favourites (number of days)

- **cdefmet**

it sets the preferred metrics that you want to show first in the EPV for CICS combo-boxes.

- **ddefmet**

it sets the preferred metrics that you want to show first in the EPV for Db2 combo-boxes.

- **ldefmet**

it sets the preferred metrics that you want to show first in the EPV for zLINUX combo-boxes.

- **mdefmet**

it sets the preferred metrics that you want to show first in the MyEPV combo-boxes.

- **qdefmet**

it sets the preferred metrics that you want to show first in the EPV for MQ combo-boxes.

- **udefmet**

it sets the preferred metrics that you want to show first in the EPV for UNIX combo-boxes.

- **zdefmet**



---

it sets the preferred metrics that you want to show first in the EPV for z/OS combo-boxes.

- **hideemptytables**

automatically hide the empty tables.

- **yearsincalendar**

number of years to be showed in the EPV Calendar.

- **mini\_popup\_height**

it sets the height of the mini popup in proportion of the size of the screen.

- **mini\_popup\_width**

it sets the width of the mini popup in proportion of the size of the screen.

- **small\_popup\_height**

it sets the height of the small popup in proportion of the size of the screen.

- **small\_popup\_width**

it sets the width of the small popup in proportion of the size of the screen.

- **normal\_popup\_height**

it sets the height of the normal popup in proportion of the size of the screen.

- **normal\_popup\_width**

it sets the width of the normal popup in proportion of the size of the screen.

- **IEcsvexportpath**

it sets the path where CSV table data will be exported in IE.

- **logpath**

it sets the path where all the logs are being produced by the EPV products. It is used by the 'EPV Focal Point' menu voice. Only for the Plus products.

- **IEnoActiveXExport**

it activates the Excel Export of the reports without using the ActiveX component in IE.

- **CSVColumnDelimiter**

it is used to delimit the CSV columns.

- **CPU\_Color\_Ranges, ELI\_Color\_Ranges, ZIP\_Color\_Ranges, DISK\_Color\_Ranges, MEM\_Colors\_Ranges**

these 4 parameters set the Management Summary Tachometers colors and ranges.

- **zBarColors**

it defines the colors used inside the EPV Graph for z/OS bars.



---

- **dBarColors**

it defines the colors used inside the EPV Graph for Db2 bars.

- **mBarColors**

it defines the colors used inside the MyEPV bars.

- **zItemColor**

it is used to associate a color to an item (like system, CEC and so on) inside EPV Graph for z/OS.

- **dItemColor**

it is used to associate a color to an item (like system, CEC and so on) inside EPV Graph for Db2.

- **mItemColor**

it is used to associate a color to an item (like system, CEC and so on) inside MyEPV.

- **ConditionalFormattingColor**

it is used to highlight the table cells when using the Conditional Formatting function.

- **HigherNumberColor**

it is used to highlight the table cell with the max value when using the MinMax function.

- **LowerNumberColor**

it is used to highlight the table cell with the min value when using the MinMax function.

- **ZebraColor**

it defines the background color used to emphasize the report's rows when clicked.

- **ZebraLastColor**

it defines the background color used to emphasize the last available day report's rows when clicked.

- **UserFastPath**

it allows to add user-defined Fast Paths to the EPV for z/OS menu.

- **MultiMyEPV**

it allows to use multiple MyEPV websites in the same EPV website

- **MyEPVGRAPH\_height**

MyEPV graphs height

- **MyEPVGRAPH\_markers**

MyEPV graphs markers on intersection points

- **LPARHighlight**

LPARS to highlight in CPU/IIP Utilization reports



- 
- **LPARHighlightColor**  
highlight color used inside the LPAR highlight function
  - **EXPXLSX**  
excel export in xlsx instead of xls
  - **DB2REPINDEX**  
enable Db2 Transaction Reports Index
  - **CICREPINDEX**  
enable CICS Transaction Reports Index
  - **FP\_REFRESH\_TIME**  
focalpoint's automatic refresh timeout
  - **v15\_zos\_migration\_date, v15\_gzos\_migration\_date, v15\_db2\_migration\_date, v15\_gdb2\_migration\_date, v15\_wmq\_migration\_date, v15\_zlnx\_migration\_date**  
date in which the products are migrated to V15. By using these parameters, you can keep navigating flawlessly between V15 reports and pre-V15 reports. In V15 we've changed the way to represent the dates, this is the reason of this set of parameters.



### 3.2 User fast paths

Users can dynamically create their own fast paths to collect and organize sets of views they are interested to.

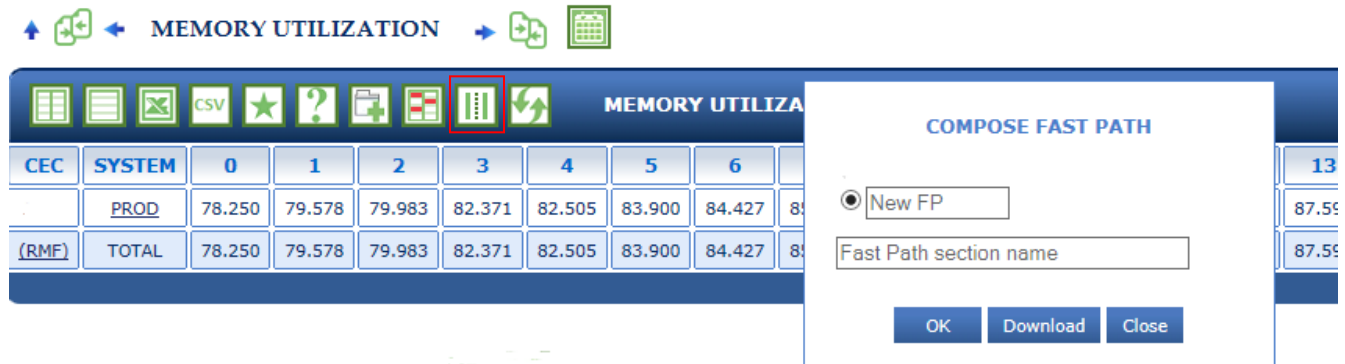


Figure 9

Users have to click on the fast path icon (bordered in red in Figure 9) in the header of the view they are interested to, and then specify the fast path name and the fast path section they want that view to be associated to.



Figure 10

Once the fast path has been created it has to be downloaded following the instructions provided by the function and put in production by the EPV administrator.

The fast path file will be named as follows: *FPfastpathname.TXT*



---

To put in production a user fast path the following actions have to be performed:

- the downloaded file has to be copied to the USER\_FASTPATHS folder;
- the fast path name has to be included in the array provided in the UserFastPaths variable in EPV\_CONFIG\_V15.TXT; this action is only required when creating a new fast path; it is not needed when an existing fast path is modified.

**Warning:** Please note that blanks are not allowed in the fast path name.

**Warning:** When using Internet Explorer or MS-Edge the total fast path size is limited to 4096 bytes

### 3.3 Open Graph's Note function

The Open Graph's Note function is located in the header of the EPV graphs. Clicking on the apposite button you can write the text of the note. Then, you have to save and locate it in the following path:

EPVROOT/USERPROFILE/COMMON/HTM/ZOSGRAPH/DAILY OR TREND  
DIRECTORY/NOTES. Finally, refreshing the view content, the Open Graph's Note button will flash and clicking on it the note will be visible.

### 3.4 Top Disks in Graphs

The Top Disks function is located in the header of the EPV I/O Activity graphs. By default, clicking on the apposite button, the top 10 disks response times are visible. It's possible to modify the number of the visible disks by customizing the \$TOPDISK parameter located in the following path:

EPVROOT/USERPROFILE /ZOSGRAPH/CONFIG.PL.



---

## 4 Operations

### 4.1 Starting the EPV products web site

The EPV products web site is started when the START.HTML page is opened. It then builds the EPV menu on the top of the window and loads the HOME. HTML.

The HOME.HTML page loads all the images and pages related to the EPV products and services, while the START.HTML page loads the javascript files described in the previous chapters and the TXT files that contains the information needed to create the menu for each installed product.

Each product menu is dynamically created and its structure is based on the content of the *prid.TXT* file within the *pridHTML* folder inside the main EPV folder.

The *prid* prefix may assume the following values:

- CIC,
- DB2,
- LNX,
- WMQ,
- ZOS,
- ZOSGRAPH<sup>3</sup>,
- DB2GRAPH<sup>4</sup>.

This file is created and updated during the production of the HTML pages.

### 4.2 Browsing the HTML pages

After the activation of the products starting page you can choose one of the main menu selections and browse the HTML pages. You can browse the pages using the EPV main menu or one of the links that you can find within the page.

The selection of a link connects directly to the report you asked for, while the choice selection of the main menu recalls a javascript function that visualizes the report wanted.

---

<sup>3</sup> The ZOSGRAPH.TXT file is located in the ZOSGRAPH directory.

<sup>4</sup> The DB2GRAPH.TXT file is located in the DB2GRAPH directory.



## Related documentation

The following manuals complement the information provided in this manual:

- *EPV for z/OS (SAS based) V15 Installation and Customization*
- *EPV for z/OS V15 Installation and Customization*
- *EPV for CICS (SAS based) V15 Installation and Customization*
- *EPV for CICS V15 Installation and Customization*
- *EPV for DB2 (SAS based) V15 Installation and Customization*
- *EPV for DB2 V15 Installation and Customization*
- *EPV for MQ V15 (SAS based) Installation and Customization*
- *EPV for MQ V15 Installation and Customization*
- *EPV for zLINUX V15 Installation and Customization*
- *EPV Graph for z/OS V15 Installation and Customization*
- *EPV Graph for DB2 V15 Installation and Customization*