Boldly Going Where No IMS Monitor Has Gone Before

Nick Griffin

Share # 9396
Agenda

• System Performance for IMS
  • MAINVIEW for IMS Online
  • MAINVIEW for IMS Offline
  • MAINVIEW AutoOPERATOR for IMS

• MAINVIEW
  • Fully loaded phaser bank of views
    • Focus will be on recent enhancements
    • Exploitation of IMS V11
  • Seamless integration
    • With other BMC IMS products
    • With other MAINVIEW products
TSO SPOC - Single Point of Control

• Introduced back with IMS V8.1
• Introduced with the Common Service Layer (CSL)
  - 3 main address spaces
  - SCI (Structured Call Interface), OM (Operations Manager), RM (Resource Manager)
• Required in order to issue Type 2 commands
• Growing interest in type 2 commands
  - Especially, new DB Quiesce in V11
• When using SPOC, you must be logged on to a TSO in the SYSPLEX
  - If Multiple SYSPLEX’s, must be logged on to a TSO in each of the PLEX’s
    • Doesn’t seem logical
MAINVIEW Architecture – Single System Image

• Designed to be single point of control

• Manage and Monitor all IMS systems from one view
  - Ideal for a SYSPLEX/IMSPLEX or multiple IMS environments

• System Performance for IMS solution
  - Issue both type1 and type 2 commands
    • Type 2 commands still require OM & SCI
  - Line commands
    • CMD on a view means you can issue a command
    • Help provides information on the commands
  - IMSCMDS
    • This command displays a pop-up allowing you to issue type 1 or type 2 commands

• Audit capability
  • Commands issued through MAINVIEW view logged
View of your entire IMS enterprise

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Issue IMS Commands

25MAR2009 08:57:29 ------- MAINVIEW WINDOW INTERFACE (V6.0.00) ---------------------
COMMAND ==> SCROLL ==> CSR
CURR WIN ==> 1  ALT WIN ==> 
>W1 =IDBSUMR============I11J44CT=*========25MAR2009==08:57:10==MVIMS==D==408

Related Views

* Summary by

CMD  DBD/PART IMS
--- Name  ID
BBFDDB01 I11
BBFDDB02 I11
BBFDDB03 I11
BBFDDB04 I11
BBFDDB05 I11
BBFDDB06 I11
BBFDDB07 I11
BBFDDB08 I11
BBFDDB09 I11
BBFDDB10 I11
BBFDDB11 I11
BBFDDB12 I11
BBFDDB13 I11
BBFDDB14 I11
BBFDDB15 I11
BBFDDB16 I11
BBFDDB17 I11
BBFDDB18 I11J
BBFDDB19 I11J
BBFDDB20 I11J
BBFDDB21 I11J

Help Command ==> Scroll ==> Help
Available Actions

- L or LD Lock a database
- U or UD Unlock a database
- D or DD DBDUMP a database
- DG or DDC DBDUMP a database globally
- QRY QUERY DB NAME() SHOW(ALL)
- SQ or SQH Quiesce this database with or without the hold option
- PQ Stop a database quiesce for this database

NOT-OPEN NOT-INIT NODMB NOT-AUTH EXCL
NOT-OPEN NOT-INIT NODMB NOT-AUTH EXCL
NOT-OPEN NOT-INIT NODMB NOT-AUTH EXCL
NOT-OPEN NOT-INIT NODMB NOT-AUTH EXCL
More on DB Quiesce

- DB Quiesce
  - Needs DBRC SCI registration
  - The Quiesce process will wait for any uncommitted updates to be committed.
    - Quiesce attempt times out according to the DBQUISCETO parameter value
      - Prevents application from waiting too long
    - May want to review the value of DBQUISCETO parameter
Other IMS parameters

- May need to review other IMS parameters as well
  - IMS Connect
    - OTMA=Y,
    - GRNAME=GPF71GRP <<<<<< This must match the value in the IMS Connect Proclib CONFIG for the Datastore

- What are my current IMS parameter settings?
  - Am I headed toward an Asteroid field?
  - IMSPARMR view can help
IMSPARMR view displays current IMS parameters

25MAR2009 08:55:44 ------ MAINVIEW WINDOW INTERFACE (V6.0.00) ---------------
COMMAND ==>  SCROLL ==>  CSR
CURR WIN ==>  I  ALT WIN ==>  
W1=IMSPARMR=111J44CT=*25MAR2009=08:55:44==MVIMS==D=50

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<td>25MAR2009 08:55:44</td>
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What else utilizes CSL? - Open Database Manager

- What is Open Database Manager (ODBM)?
  - Enhances the distributed access to IMS databases
    - Provides a scalable infrastructure to facilitate distributed access to IMS DB
    - Utilizes IMS Connect as the TCP/IP gateway to IMS data
      - IMS Connect is the router between the client and ODBM
    - Uses SCI as its communication mechanism
      - SCI uses XCF to communicate with the ODBM address space
        - Allows for applications to be on any LPAR in an IMSPLEX
  - What has MVIMS done for ODBM?
    - New IODB* views
    - New set of views showing ODBM Alias, Datastore, thread, configuration, and client information.
New ODBM views

- VIEWS IODB*

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<th>View Name</th>
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<td>IODBTSMR</td>
<td>MVIMS</td>
<td>ODBM</td>
<td>ODBM Thread Summary</td>
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IODBSUMR – ODBM Summary is my favorite
IODBSUMR – ODBM summary view.

- Always start here and hyperlink to the other views in warp speed!
- Shows all ODBM address spaces, with information about their status, threads, aliases, SCIs, configuration
- ODBM status shows it’s ready to receive messages
  - Use Automation to pro-actively monitor unacceptable status, like NOT_REACHABLE
IMS V11/V10 Synchronous Callout

- This enables IMS applications to synchronously call out to WebSphere applications, Web Service providers, or other external applications.
  - Positions IMS to be both a client and a server, and to allow for SOA integration

- The callouts go through OTMA, to IMS Connect, and then to the external application.
  - OTMA descriptors are used to tell OTMA how to reach the external application
IMS V11/V10 Synchronous Callout

- A new AIBTDLI call verb (ICAL) invokes the callout.
- Dependent regions waiting for a response can impact message queuing and scheduling
  - Callouts can be timed out or /PSTOP can be used.
- How do I know if this new ICAL is causing problems?
  - Trouble in my Tribble???
Shows synchronous calls outs were done by the transaction, including the start times and durations of these calls, and return codes.
IRGNSUMR view – Identifies ICAL waits

21JUL2010 08:36:44 ------ MAINVIEW WINDOW INTERFACE (V6.0.00) -------------------

COMMAND ===> _
CURR WIN ===> 1 ALT WIN ===> >W1 =IRGNSUMR=<=(ALL==*=*==*)21JUL2010==08:36:44==MVIMS==D==5

Related Views
- Region Status
- Waiting Rngs
- BMP Rngs
- IMS Connect
- Region Occupancy
- MPP Rngs
- DBCTL Rngs
- ALL Rngs
- Region Pgm Summary
- Fastpath Rngs
- JAVA Rngs

CM Rgn  IMS  Rgn Region  Tran  PSB  Curr Tran Tran Tot Tot Tot Tot
-- ID  ID  Typ Status  Name  Name IWAIT  CPU  Elap DL/I  I/O  Lock  SQL
 5  I11T  BMP  WT-ICAL  IVPREXX 2.583 0.056 32.6 0 0 0 0
 1  I11T  MPP  INACTIVE  0.000 0.000 0.00 0 0 0 0
 2  I11T  MPP  INACTIVE  0.000 0.000 0.00 0 0 0 0
 3  I11T  MDP  IDLE-WFI  DFSIVP5 0.000 0.000 0.00 0 0 0 0
 4  I11T  MDP  IDLE-WFI  DFSIVP4 0.000 0.000 0.00 0 0 0 0

Automation for pro-active notification of this condition
Waits/contention can impact performance

• Lock Contention in particular is extremely problematic
  • How do I identify if there’s a contention problem?  
  • How severe or widespread is the problem?  
  • Which resources are most contended for?  
  • How can I resolve the contention problem?  
• Identify the ultimate holder(s) for PI Locks has been available but identifying for IRLM locks needed.
• MAINVIEW IMS V4.5 - IRLM Locking Ultimate Holder
  • New views will directly indicate the ultimate holder(s) for any lock contention that is causing an application region to wait
  • ILKULLST and ILKULTWT includes the ultimate holder information such as the region ID, region name, PSB name and its IMS ID
New V4.5 View

```
24MAY2010 11:22:34 ------ MAINVIEW WINDOW INTERFACE (V6.0.00) ---------------
COMMAND ===>
SCROLL ===>
CURR WIN ===>
ALT WIN ===>
>W1 =ILKULTWT==*(ALL==*(D==6
- IRLM Wait With Ultimate Holder

Related Views
- Resource Contention
- Holding Regions
- Database Contention
- IRLM Statistics

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<th>Tran</th>
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### Related Views
- Regions in IRLM Wait
- Database Contention
- Resource Contention
- IRLM Statistics

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Expanding the use of IMS Connect

• IMS Connect
  • Functions as a TCP/IP socket server allowing access to IMS transactions and data
    - Many new functions require IMS Connect
      - ICAL, ODBM, and probably more to come
  • Klingon Cloaking Device - messages go in and may or may not come out
  • IMS Connect is an OTMA client
  • How do you identify if it’s an IMS or IMS Connect Problem?
Expanding the use of IMS Connect

• What does System Performance for IMS do for IMS Connect
  • Utilizes Energizer for IMS Connect
    • Identifies IMS Connect and MQ clients from OTMA* views
    • Provides IMS Connect information to several region views
    • Populate IMSCON* Views
  • V4.5 – New WorkLoad Monitor
### IMSRGNSSR – Real-time Region Status View

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<th>Session IMS</th>
<th>Rgn</th>
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Displays IMS Connects being processed by this IMS

05MAR2008 10:31:01 -----. MAINVIEW WINDOW INTERFACE (V5.0.05) -----. COMMAND -----. SCROLL -----. CSR

W1 -IMSRGNSSR---------------- I10A43CT-*---------------- 05MAR2008--10:31:01-----MVIMS------D-----1

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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
### IRGNICSM – Region/IMS Connect Activity View

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Command</th>
<th>Interface</th>
<th>Version</th>
<th>Screen</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>24SEP2007</td>
<td>15:29:56</td>
<td>--------</td>
<td></td>
<td>V5.0.05</td>
<td>---------</td>
<td>------</td>
</tr>
</tbody>
</table>

#### Region/IMS Connect Activity View

<table>
<thead>
<tr>
<th>Region</th>
<th>IMS</th>
<th>Rgn</th>
<th>Client</th>
<th>Client IP</th>
<th>Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTV-USR</td>
<td>IVTNO</td>
<td>55274984</td>
<td>172.22.132.78</td>
<td>2676</td>
<td>Hyperlink to MVIP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Job/STC</th>
<th>Time</th>
<th>ID</th>
<th>Typ</th>
<th>Status</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>TXCIC10S</td>
<td>0.36</td>
<td>T10P</td>
<td>MPP</td>
<td>ACTV-USR</td>
<td>IVTNO</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Region</th>
<th>IMS</th>
<th>User</th>
<th>Sock</th>
<th>PSB</th>
<th>Curr</th>
<th>Tran</th>
<th>Tran</th>
<th>Tot</th>
<th>Tot</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIHTXC2</td>
<td>3</td>
<td>1</td>
<td>DFSIVP1</td>
<td>0.000</td>
<td>0.0003</td>
<td>0.0051</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

#### Additional Details

<table>
<thead>
<tr>
<th>Job/STC</th>
<th>Port</th>
<th>ID</th>
<th>ID</th>
<th>Name</th>
<th>IWAIT</th>
<th>CPU</th>
<th>Elaps</th>
<th>DLI</th>
<th>Lock</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>TXCIC10S</td>
<td>2676</td>
<td>3</td>
<td>RIHTXC2</td>
<td>1</td>
<td>DFSIVP1</td>
<td>0.000</td>
<td>0.0003</td>
<td>0.0051</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Region</th>
<th>IMS</th>
<th>Job/STC</th>
<th>SQL</th>
<th>Time</th>
<th>DLITime</th>
<th>EssTime</th>
<th>Qued</th>
<th>Limit</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>TXCIC10S</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>65535</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>IC10P</td>
<td></td>
</tr>
</tbody>
</table>

---

**Note:** The image includes a hyperlink to MVIP.
IRGNDTLR – Identifies IMS Connect as the OTMA client & the TMEMBER name

<table>
<thead>
<tr>
<th>ID</th>
<th>ID Type</th>
<th>Status</th>
<th>Name</th>
<th>PSB</th>
<th>Curr Trans</th>
<th>Elaps Trans</th>
<th>DLI</th>
<th>Lock</th>
<th>SQL</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>I10A</td>
<td>MPP</td>
<td>ACTV-USR</td>
<td>PART</td>
<td>DFSSAM02</td>
<td>0.000</td>
<td>0.0625</td>
<td>0.1856</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>I10A</td>
<td>MPP</td>
<td>IDLE-WFI</td>
<td>IVTFD</td>
<td>DFSIVP4</td>
<td>0.000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>I10A</td>
<td>MPP</td>
<td>IDLE-WFI</td>
<td>IVTFM</td>
<td>DFSIVP5</td>
<td>0.000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>I10A</td>
<td>MPP</td>
<td>IDLE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SQL Total = 0
Inserts = 0
Deletes = 0

OTMA Client: IMS Connect
IMSOCC008

Region ID: 3
Jobname: I10AMP1
Trancode: PART
IMS ID: I10A
PSB: DFSSAM02
MVS Name: SJSC
LTERM: AGN
RCF Name: NONE
ESS Type: RIHTXC
ESS Name: CQ01
ESS Status: CON
OTMA Client: IMS Connect
CPR Trname: ACTV-USR
Tran Enqueue: 13:44:26 2960

Current Lock Contention (PI)
PI Activity: 65535

DB Calls: 2
Current/Last DLI Call: 0
Seq Bf Usg: 0
Msg Other: 1
Msg Other: 0
Msg PURG: 0
Msg ISRT: 6
SETO: 0
SETO: 0
SETUP: 0
SETU: 0
ROLB: 0
ROLS: 0
XIRST: 0

Lock Detail
DB2 Name: Control
Plan Name: Dynamic
Sel/Fetch: 0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0

CPR Tranname: ACTV-USR
Tran Elapsed: 0.0307
Region Idle: 0.0
IOTMDTLR – OTMA Message Detail View

05MAR2008 11:00:43 ------- MAINVIEW WINDOW INTERFACE (V5.0.05) (MAX)-------

W3 =IOTMDTLR=-----------------I10A43CT=*-----------------05MAR2008=10:59:54==MVIMS==D==1

Msg Type............. TRAN Member Name.. IMS0C00A
Msg Name.............. PART Accepting MSG traffic
Msg Segments........... SNGL Client
Age in Minutes...... 0.3 IMS Conn
Date Queued........... 05MAR2008 IMFOTMA
Time Queued........... 10:59:36.40 OTMA10A
Send Seq Nbr.......... 1748 I10A
Recovery Seq Nbr...... 0 SJSC
Sense Code............ N/A 11032
Reason Code........... N/A Not Sync
transaction Mode...... NON-CONV Send-then-Commit
Map Name.............. N/A
Override LTERM........ FULL
User ID.............. BOLJXK1
Generated Time........ 10:59:36.40

--IMS CONNECT---
Job/STC name...... I10ACONN Client ID...
Port ID............. 11032 Client IP Adr
Socket Port........ 10 Client Port ID

Hyperlink to MVIP

2011
Why does hyperlink to MVIP matter?

• IMS Connect is a TCP/IP socket server
  • Problem could be with TCP/IP
• IMS always gets blamed but is usually the victim
• Seamless integration with other MAINVIEW components
  • Hyperlinks take you in WARP speed to other potential problem areas
    • TCP/IP, DB2, z/OS
  • Same look & feel with all MAINVIEW components allows for easy navigation
Trace contains OTMA / IMS Connect data

<table>
<thead>
<tr>
<th>Summary Trace Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMMAND</strong></td>
</tr>
<tr>
<td><strong>IMC ID</strong></td>
</tr>
<tr>
<td>I10A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TRANSACTION INFORMATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trancode</strong></td>
</tr>
<tr>
<td>PART</td>
</tr>
<tr>
<td><strong>User ID</strong></td>
</tr>
<tr>
<td>BOLJXK1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>OTMA INFORMATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Client Type</strong></td>
</tr>
<tr>
<td>IMSConn</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>DC CALL ACTIVITY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Message GU</strong></td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>DL/I CALL ACTIVITY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DB Name</strong></td>
</tr>
<tr>
<td>DI21PART</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>EVENT TIMING</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sync Point</strong></td>
</tr>
<tr>
<td>Elap Time</td>
</tr>
<tr>
<td>VSAM IWAIT</td>
</tr>
<tr>
<td>OSAM IWAIT</td>
</tr>
<tr>
<td>DEDB IWAIT</td>
</tr>
<tr>
<td>Latch IWAIT</td>
</tr>
<tr>
<td>Misc IWAIT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>DL/I TM</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Elap Time</td>
</tr>
<tr>
<td>Latch IWAIT</td>
</tr>
<tr>
<td>Misc IWAIT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CPU TIMES (us)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dep Rgn..DLI</td>
</tr>
</tbody>
</table>
More on IMS Connect and ODBM

- ODBM has resulted in
  - New IMS Connect commands
  - New IMS Connect Event Records
  - New IMS Connect Routing exit to select the ODBM to service the requests
  - New IMS Connect Security exit

- MAINVIEW and Energizer for IMS Connect Integration
  - Issue IMS Connect Commands
  - Display IMS Connect Events
  - Use Energizer for IMS Connect to dynamically implement IMS Connect exits.
IMS Connect Response Monitor

- Workload monitor named @CRSP

This service monitors the IMS Connect transaction average response time.

Parameter:

User-defined monitor request identifier or blank.

Measurement:

Average IMS Connect transaction response time for the selected workload and sampled interval. Response time is calculated as the difference between when IMS Connect reads the message from the socket and when IMS completes the transaction and sends the response back to IMS Connect.
MVIMS Offline - FA Log Records

- Provide additional transaction statistics
- MAINVIEW IMS Offline component reports on these records
- Provides lots of useful information that is formatted by Log Analyzer for IMS
  - For DBCTL – provides CICS tran name, applid, userid
  - For all IMS environments - READ Only DB information
    - Number shown controlled by event collector options DBTS and DBTS4BMP

```
FA Mainview 000000FC5EDF0 16:23:26.661454 jobname=IMSYS50K userid=OR498HK message GU count=2 pst=00064
message insert count=1 i/o pcb input characters=1845
i/o pcb output characters=1845
readDBs= ED0008(24), ED0001(956), ED0007(26), ED0061(1), ED0006(5), ED0003(68), ED0005(4920), ED0025(273)
```
Different Menus for Different Functions

Communications
- Input Messages Queued
- Output Messages Queued
- Input/Output Status
- Active Users
- ODBM
- OTMA
- IMS Connect
* APPC
* MSC

Transaction Analysis
- Delay Factors
- Components of Response
- Traces

* Unavailable Resources

Tools and Menus
* IMS Utility Menu
* IMS Fast Menu
* IMS Easy Menu
> IMS Easy Ops Menu
> IMS Easy DBA Menu
> IMS Easy MSC Menu
* IMS Classic Menu
> IMS Easy Admin Menu
. Installed Products
. What's New?
. Return...

New with V4.5
Easily determine if options are set differently in another system
BMC MAINVIEW Explorer – Manage IMS from web browser

Notice IMS systems
MVEXPLORER – View all the systems
IMS Views thru MVEXPLORER

Related Views
- Database Overview
- Summary by Type
- Database I/O Delays
- Data Set I/O Delays
- Database Exceptions
- Database Xref Summary

Database Status Summary

<table>
<thead>
<tr>
<th>Status 1</th>
<th>Status 2</th>
<th>Status 3</th>
<th>Number of DB</th>
<th>IMS ID</th>
<th>IMS Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT-OPEN</td>
<td>NOT-OPEN</td>
<td>NODMB</td>
<td>52</td>
<td>DVTA</td>
<td>DVT10IMS</td>
</tr>
<tr>
<td>NOT-OPEN</td>
<td>NOT-INIT</td>
<td>NODMB</td>
<td>751</td>
<td>DVTA</td>
<td>DVT10IMS</td>
</tr>
<tr>
<td>OPENED</td>
<td></td>
<td></td>
<td>4</td>
<td>DVTA</td>
<td>DVT10IMS</td>
</tr>
</tbody>
</table>

Command: IDBSTAR - MVIMS @ DVT10IMS[SYSBDEMO]  Feb 26, 2011 5:50:40 AM  1 of 3
Launch MVEXPLORER from Data Management Console
Data Management Console & MVEXPLORER integration
Beams you directly to a MVIMS view
Summary

- Monitoring your IMS environment is just as critical as it’s ever been!
- As you continue with IMS
  - And your on-going mission
    - Could be a 5 year mission!
- As you explore strange new IMS releases
- Seek out bold new IMS features and functions to exploit
- Don’t take this voyage alone
- BMC System Performance for IMS is the solution to monitor and manage your IMS systems now and into the future
Thank You!

Rosemary_galvan@bmc.com