



Information On Demand

IMS Database Control Suite v3.2

Improving DBA productivity when managing IMS databases...

Joe Sacco
IMS Tools Project Manager



ON DEMAND BUSINESS™

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Doing more with less...

- **How are you planning to improve DBA time and effort when managing IMS databases?**
 - Do you have fewer people with broader (but less deep) skills that are managing more IMS Databases?
 - Are you moving to or considering the move to a full DBRC Database environment?
 - How do you currently generate production JCL when a new IBM database tool is acquired?
 - Is online DB space management and exception reporting a cumbersome task?
 - Is lack of knowledge of DBRC command syntax hindering you in performing DBRC functions?

Paul, New IMS DBA



Profile

Paul is a university new hire with a degree in Computer Science. He is not familiar with z/OS, and is just learning about database administration. As a new DBA, Paul assists the experienced DBAs with routine tasks across all of their IMS systems. His primary job is to perform scripted maintenance, monitor the health of the IMS systems, resolve any issues he can and report others he can't.

High Priority Tasks

- Execute backup and other maintenance scripts
- Add storage as needed
- Recover archived data
- Monitor availability, performance, storage and other resource usage
- Troubleshoot basic problems
- Anticipate problems and report them to team lead

Pain Points

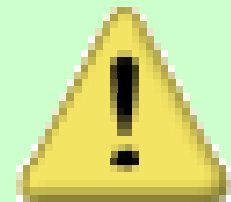
- Difficult for him to adapt to working in a mainframe environment
- Lots to learn and dislikes reading complex manuals
- Managing changes and installing new tools requires too many complicated steps
- Identifying all of the related objects impacted by possible fixes or app changes
- Getting attention from DBAs for simple admin tasks

Goals

- Keep production systems available 24x7
- Identify potential problems before they impact users
- Ensure development and test systems reflect the production data
- Handle more problems independently and offload more work from the experienced DBAs

Paul's Pain Points

We'll now take an in depth look at the challenges Paul faces on a daily basis and how the IMS Database Control Suite can help...

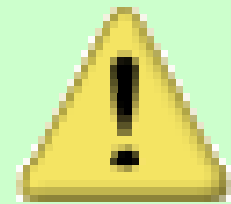


Set-up

- **The Control Suite's wizard-like ISPF set-up panels quickly allow you to...**
 - Define your IMS environment
 - Identify other IBM IMS Tools the Control Suite should be aware of and use when running jobs
 - Group logically related databases into 'DBDSGRPS' for Control Suite to act on (Batch or ISPF)
 - Define your shop's particular JCL options for the Control Suite to use when building database management jobs such as Backup, Recovery, and Reorgs

Setting up new tools...

Paul and his team want database management tools that are easy to install and set up “right out of the box”...they want to be up and running quickly and see the return on investment...time is money!



IMS DB CONTROL SUITE V3.2 - PK27060

SETUP DEFINE JCL PRMS function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

Panel 1 of 3

SMS class	. . . <u>1</u>	(N, 1=storage, 2=mgmt or 3=data)
DASD device type	. . . <u>3390</u>	(3380 or 3390)
DASD unit	. . . <u>SYSALLDA</u>	(Esoteric name or blank if SMS N)
TAPE unit	. . . <u>3480</u>	(Esoteric name)
Tape retention	. . . <u>21</u>	(Days)
IMS utility buffers	. . . <u>50</u>	(VSAM)
	. . . <u>50</u>	(OSAM)
CS loadlib qualifier	. . . <u>SIDLLMDO</u>	(Last qualifier of CS loadlib dsn)

Global JCL parameters are set during Control Suite's initial set up...this is a one time step when defining your Control Suite environment

IMS DB CONTROL SUITE V3.2 - PK27060

SETUP DEFINE IMS LIBS function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

Panel 2 of 3

IMS RECON data sets

RECON1	. .	<u>J849435.TEST8.RECON1</u>	VOLSER . .	MVSS05
RECON2	. .	<u>J849435.TEST8.RECON2</u>	VOLSER . .	MVSS05
RECON3	. .	<u>J849435.TEST8.RECON3</u>	VOLSER . .	MVSS05

IMS system data sets

DBDLIB	. .	<u>J849435.TEST8.DBDLIB</u>		
PSBLIB	. .	<u>J849435.TEST8.PSBLIB</u>		
SDFSRESL	. .	<u>IMSVS.IMS810.SDFSRESL</u>		
ACBLIB	. .	<u>J849435.IVP.ACBLIB</u>		
EXITLIB	. .	<u>IMSVS.IMS810.SDFSRESL</u>		
DYNLIB	. .	<u>J849435.TEST8.DYNLIB</u>	More DYNLIBs .	<u>N</u> Y/N
SDFSMAC	. .	<u>IMSBLD.IMS81R.MACLIB</u>		
MODBLKS	. .	<u>IMSVS.IMSB.MODBLKS</u>		
PROCLIB	. .	<u>IMSVS.IMS8.PROCLIB</u>		

The same goes for telling the Control Suite about your RECON data sets and IMS System data sets...enter them once and you're good to go!

IMS DB CONTROL SUITE V3.2 - PK27060

SETUP DEFINE IMS LIBS function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

Panel 3 of 3

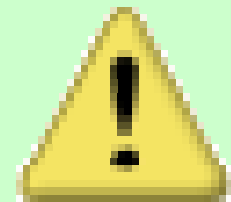
Space Management History Data Set Information

Data set name . . . J849435.ALPHA.HISTORY
CYLS . . . 5
VOLSER . . . *

The last panel when setting up your environment is where you define the data set used to store your space management history report...a vital key in effective IMS space management.

Not knowing which DBDs are related

Paul is still new to the structure of his shop's IMS systems and all of their associated DBDs. When building JCL he often leaves out a related DBD or an index resulting in an incomplete job stream...



SETUP COLLECT function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press END to exit

Enter F string on the ISPF command line to find a DBDSGRP, DBD/DDN/DSN, USER STATUS or Description. Enter F by itself to redisplay the full table.

Select (S) Show expanded DBDSGRP (E)

DBDSGRP	USER	STATUS	DESCRIPTION
<u>S</u> ALPHA1	J849435	Collect successful	smpondp1 group
_ ALPHA2	J849435	Collect successful	supp
_ ALPHA3	J849435	Collect successful	the real smpondp1 g
_ ALPHA4	J849435	IC DSN conventions	tabs
_ A009G	J849435	Collect successful	BATCH DBD=SMPINVP1
_ A012G	J849435	Collect successful	BATCH DBD=SMPPAYP1
_ A014G	J849435	Collect successful	BATCH DBD=SMPSUPP1
_ A015G	J849435	Collect successful	BATCH DBD=SMPTABP1

The Control Suite's Collect function walks you through collecting and grouping all related databases into Control Suite 'Groups'...

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SETUP COLLECT function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit.

Panel 1 of 4

Specify DBD input for DBDSGRP . . ALPHA1

Build DBD list file . . Y (Y or N)

Check ACBLIB . . N (Y or N)

To make things simple, Paul should tell the Control Suite to show him all of his DBDs...from there he can select the ones he wants to group together...

SETUP COLLECT function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press END to exit

Panel 2 of 4

Select DBDs to be included in DBDSGRP . . ALPHA1

DBD name filter . . _____

Select (S) or Delete (D) Press ENTER to process completed DBD list.

- DBD
- SMPINVP1
- S SMPORDP1
- = SMPORDX1
- SMPORDY1
- SMPORDY2
- SMPPAYP1
- SMPPAYY1
- SMPSUPP1
- SMPSUPX1
- SMPTABP1

No need to worry if you're new or happen to forget which DBDs are related...just select one and the Control Suite will go out and collect all the pieces parts that are related, both physically AND logically!

***** Bottom of data *****

IMS DB CONTROL SUITE V3.2 - PK27060

SETUP COLLECT function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press END to exit

Panel 2 of 4

Select DBDs to be included in DBDSGRP . . .

DBD name filter . . . _____

Select (S) or Delete (D) Press ENTER to process completed DBD list.

DBD

- SMPINVP1
-
- SMPORDX1
- SMPORDY1
- SMPORDY2

As you can see the Control Suite goes out and does all the grouping and double checking for you...so your job streams won't break due to a missing database.

IDLR410: IDLRBUIL; Accessing
RECON1 = J849435.TEST8.RECON1
RECON2 = J849435.TEST8.RECON2
RECON3 = J849435.TEST8.RECON3

ottom of data *****

SETUP COLLECT function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

Panel 3 of 4

Update DBRC options for DBDSGRP . . ALPHA1

Propagate global DBRC values to all rows

SHR LVL . . N (N - leave as is, 0, 1, 2, or 3)
 RECOVPD . . N (N - leave as is, 0 to 999)
 GENMAX . . N (N - leave as is, 2 to 255)

All Collected!! At this point final DBRC values can be set for the group, e.g. Share Level

Change DBRC values

SHARELVL (0, 1, 2 or 3) , RECOVPD (0 to 999) or GENMAX (2 to 255)

SHR	RCV	GEN	DBD	DDNAME	PART	PRIMEDB	INDEX	ACTIVE
<u>3</u>	<u>6</u>	<u>12</u>	SMPORDP1	SMPORD1P	N/A	SMPORDP1	N/A	0
<u>3</u>	<u>6</u>	<u>12</u>	SMPORDX1	SMPORD1X	N/A	SMPORDP1	PRIMARY	0
<u>3</u>	<u>6</u>	<u>12</u>	SMPORDY1	SMPORD1Y	N/A	SMPORDP1	SECONDARY	0
<u>3</u>	<u>6</u>	<u>12</u>	SMPPAYP1	SMPPAY1P	N/A	SMPPAYP1	N/A	0
<u>3</u>	<u>6</u>	<u>12</u>	SMPORDY2	SMPORD2Y	N/A	SMPORDP1	SECONDARY	0
<u>3</u>	<u>6</u>	<u>12</u>	SMPPAYY1	SMPPAY1Y	N/A	SMPPAYP1	SECONDARY	0

***** Bottom of data *****

IMS DB CONTROL SUITE V3.2 - PK27060

SETUP COLLECT function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

Last panel in function

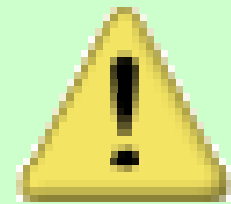
Specify job card information for jobs built for DBDSGRP . .ALPHA1

```
. . //&JOBNAME JOB (J849435, 'IDIA, E241, 090, IDIA'), JONES, REGION=0M, CLASS=A,
. . // USER=J849435, TIME= (5, 30), MSGCLASS=H, MSGLEVEL= (1, 1), NOTIFY=J849435
. . /**
. . /**
```

Once a DBDS Group is Collected, a job card must be specified...use your shop's standard job card here, these can be easily changed if need be and DBDS Group settings and job cards can be cloned and used again when defining new groups...

Collecting related DBDs and building JCL is time consuming

Paul's time is at a premium and collecting all of these DBDS groups takes time. He needs a fast and efficient way to collect and load all DBDS groups for his shop.



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SETUP COLLECT function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:13:14.27

DATE. .2006/08/09

JDTE. .2006.221

Select a DBDSGRP subtask to continue or END to exit

- Subtask . . 4
1. Collect/update/delete DBDSGRPs and IC naming
 2. Collect/update database data set data
 3. Update jobcard data only

4. Batch collect DBDSGRPs and jobs for ALL DBDLIB members

If doing Collects via ISPF panels is taking too long, the Control Suite has a newly added batch Collect job that you can run over night to collect all of your DBDS Groups in one fell swoop.

IMS DB CONTROL SUITE V3.2 - PK27060

SETUP

function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:13:41.24

DATE. .2006/08/09

JDTE. .2006.221

Select a subtask to continue or END to exit

- Subtask . . 4
1. Add or remove IMS tools
 2. Define Control Suite environment
 3. Collect/update/delete DBDSGRPs
 4. Load DBDSGRPS from the Recon
 5. Review defined/collected/loaded data

You also have the option
to load DBDS Groups
directly from the
RECON...

ALPHA SETUP COLLECT function ended.

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SETUP LOAD DBDS function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:14:08.09

DATE. .2006/08/09

JDTE. .2006.221

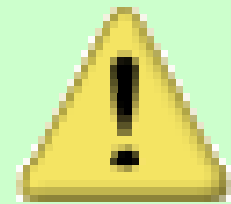
Select a subtask to continue or END to exit

- Subtask . . 1 1. Load a DBDSGRP from the Recon
2. Batch load DBDSGRPs from the Recon

Again, a batch option is available!

Implementing new tools so they work together

Once other IMS Tools are installed and set up, Paul and his team want to get them to communicate and work together efficiently...he's not interested in jumping around between separate tools...he needs a total SOLUTION...



IMS DB CONTROL SUITE V3.2 - PK27060

SETUP IMS TOOLS

function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

Panel 1 of 2

Product name	Load library name or 'N' if not installed
HPIC/ICE Image Copy Extensions	<u>IMSTOOL.HPIC41.FAB.SHPSLMD0</u>
High Performance Unload	<u>IMSTOOL.HPUL.FAB.SHPSLMD0</u>
High Performance Load	<u>IMSTOOL.HPLD21.FAB.SHPSLMD0</u>
IMS Parallel Reorg	<u>IMSTOOL.IPR21.SHPSLMD0</u>
HP Prefix Resolution	<u>IMSTOOL.HPPR31.FAB.SHPSLMD0</u>
Index Builder	<u>IMSTOOL.IB23.IIU.SIIULMOD</u>
High Performance Ptr Checker	<u>IMSTOOL.HPPC21.HPS.SHPSLMD0</u>
Library Integrity Utilities	<u>DBTMAIN.LIU110.SHPSLMD0</u>
Fast Path Basic Tools	<u>IMSTOOL.FPBV1R2.D060702.SFABLMDO</u>
Database Recovery Facility	<u>IMSTOOL.DRF31.FRX.SFRXRESL</u>

Once you point the Control Suite to the other High Performance IMS Tools you own, it will go out and use them when building the appropriate JCL job streams...integration has never been easier!!

You set JCL options at this level for each IMS DBDSGRP you've collected. Full explanations of each parameter are available via online help...these options will be used when building JCL for the Tools you have installed...

SETUP COL
Command ==>

Press ENTER to continue or exit.

Panel 1 of 3

Specify JCL options for DBDSGRP ALPHA1

Image Copy

Copy indexes . . . Y (Y or N) Concurrent IC . . . N (Y or N)

IC2 Group parm . . . N (Y or N) IC2 Compress parm. . . N (Y or N)

HPIC/ICE

Compress parm . . . N (Y or N) Parallel parm . . . N (Y or N)

HASH Check parm . . . N (Y or N) Stack parm . . . N (Y or N)

Group parm . . . N (Y or N) DSN naming . . . N (Y or N)

GRPLIM Count parm . . . 0 (0 to 9) Virtual Index IC . . . N (Y or N)

Virtual Index IC DSN . . .

Pointer Checker

Scangroup parm . . . N (Y or N) PTRCHK parm . . . N (Y or N)

Other options

Include batch CCF cmds. . . N (Y or N)

Job name prefix . . . ALF1 DBDSGRP title . . . smpondp1_group

IMS DB CONTROL SUITE V3.2 - PK27060

SETUP COLLECT function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit.

Panel 2 of 3

Specify JCL options for DBDSGRP . . ALPHA1

Unload options

Use GDGs . . N (Y or N)

DASD high level qualifier . . _____

DASD low level qualifier . . _____

Tape vol count . . (1 to 99)

Tape high level qualifier . . _____

Tape low level qualifier . . _____

Second copy of unload file. . N (Y or N)

Low level qualifier . . _____

SETUP COLLECT function for
Command ==> _____

Press ENTER to continue or END t

Specify user GENJCL parms . . . N (Y OR N)

Specify Global Image Copy Options for DBDSGRP . . . ALPHA1

First IC DSNs hlq . . . J849435.ALF1

Device type . . . SYSDA (SYSDA, TAPE, ATL2, other)

Media type . . . D (D=DASD, T=Tape)

Second IC DSNs hlq . . . _____

Device type . . . _____ (SYSDA, TAPE, ATL2, other)

Media type . . . - (D=DASD, T=Tape)

IC middle qualifiers . . . 2 (1=DDN, 2=DBD.DDN)

IC low-level qualifier . . . KATHLEEN (blank if GDG; name, \$TIME, nn.\$TIME)

GDG/SMS . . . * (G=GDG, *=SMS)

Tape retention period . . . 99 Tape data set vol count . . . _____

Online Image Copy Options . . . N (Y OR N - if OIC is going to be used)

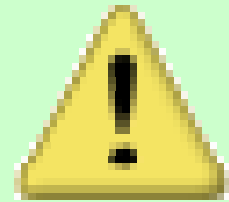
Global and Online Image Copy naming convention options are set on the last panel, again online help is available and these need only be set one time.

Running Jobs with the Control Suite

- **Once set-up is complete, running all of your database management jobs with the Control Suite is as easy as walking through a few ISPF panels. These jobs include...**
 - Backup
 - Recovery
 - Reorganization
 - Space monitoring

Lack of knowledge of JCL and control statements

Paul is new to the mainframe and does not know JCL and control statement syntax. He dislikes reading JCL reference manuals. He needs a tool to generate JCL for him automatically...accurately and quickly.



IMS DB CONTROL SUITE V3.2 - PK27060

RUN JOBS

for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:14:46.13

DATE. .2006/08/09

JDTE. .2006.221

PRFX. .J849435

Select a job list or press END to exit

Job lists . . . 1

1. Backup databases
2. Recover databases
3. Monitor/Reorganize databases
4. Fast Path Support
5. Database Recovery Facility
6. All jobs

Once your environment has been defined and JCL options have been set, it's as easy as point and shoot to run jobs against your DBCS Groups...

BACKUP DATABASES function for CS ID ALPHA IMS Version 8.1

Command ==>

Press END to exit

BACKUP DBDSGRP list

Enter F string on the ISPF command line to find a DBDSGRP, DBD/DDN/DSN, DBTYPE, CUSER or Description. Enter F by itself to redisplay the full table.

Select (S) Expansion of DBDSGRP (E)

DBDSGRP	CUSER	DESCRIPTION	DB TYPE
<u>S</u> ALPHA1	J849435	smpondp1 group	
ALPHA2	J849435	supp	
ALPHA3	J849435	the real smpondp1 g	
A009G	J849435	BATCH DBD=SMPINVP1	
A012G	J849435	BATCH DBD=SMPPAYP1	
A014G	J849435	BATCH DBD=SMPSUPP1	
A015G	J849435	BATCH DBD=SMPTABP1	

Paul just selects the group he wants to run a job against, Backup in this case...

***** Bottom of data *****

IMS DB CONTROL SUITE V3.2 - PK27060

BACKUP DATABASES function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press END to exit

BACKUP job list for DBDSGRP ALPHA1

USERID for jobname . . = (Y or N) USERID jobname suffix . . _

Edit last job built . . N (Y or N)

Alternate DBDLIB . . _____

User JCLPDS library . . _____

Select (S) Choose one job from the list below.

JOBNAME	ALTNAME	DESCRIPTION
<u>S</u> ALF1IC1	_____	IMAGE COPY DATABASES
_ ALF1I21	_____	IMAGE COPY 2 DATABASES

Then he selects the JCL he wants to generate from the Control Suite's comprehensive list of Jobs

***** Bottom of data *****

Generating JCL for job ALF1IC1

```
EDIT          J849435.D221.JCLOUT2          Columns 00001 00072
Command ==>  _          Scroll ==> PAGE
***** ***** Top of Data *****
000001 //ALF1IC1 JOB (J849435, 'IDIA,E241,090,IDIA'), JONES, REGION=0M, CLASS=A,
000002 // USER=J849435, TIME=(5,30), MSGCLASS=H, MSGLEVEL=(1,1), NOTIFY=J849435
000003 //*
000004 //*
000005 //*
000006 //*
000007 //* MEMBER=IDLJOBBS
000008 //*
000009 //* JOB CREATED ON 2006/08/09 AT 15:16:07.5
000010 //*
000011 //*MEMBER=IDLICEST
000012 //*
000013 //*****
000014 //* HPIC/ICE IMAGE COPY STEP
000015 //*****
000016 //ICESTEP EXEC PGM=FABJMAIN, REGION=0M, COND=(4,LT)
000017 //STEPLIB DD DISP=SHR, DSN=IMSTOOL.HPIC41.FAB.SHPSLMD0
000018 // DD DISP=SHR, DSN=IMSVS.IMS810.SDFSRESL
000019 // DD DISP=SHR, DSN=IMSTOOL.HPPC21.HPS.SHPSLMD0
```

The Control Suite generates complete and accurate JCL every time using the High Performance IMS Tools you already have installed!

IMS DB CONTROL SUITE V3.2 - PK27060

BACKUP DATABASES function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

Save generated JCL for a single job (optional)

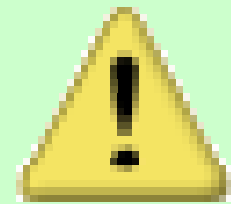
Data set name : : _____
Member name : : _____

**Afterwards you may
SUBmit your job or
save it for future
scheduling...**

ALPHA BACKUP DATABASES function ended.

Finding the right job to run for a given DBA task

Paul is still learning which jobs are appropriate to run in certain situations...it would make his life easier if he had them categorized and listed in one place for him to choose from...



IMS DB CONTROL SUITE V3.2 - PK27060

RUN JOBS

for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:16:47.38

DATE. .2006/08/09

JDTE. .2006.221

PRFX. .J849435

Select a job list or press END to exit

Job lists . . 2

1. Backup databases
2. Recover databases
3. Monitor/Reorganize databases
4. Fast Path Support
5. Database Recovery Facility
6. All jobs

**Control Suite groups
all administration
jobs it can generate
based on function...**

ALPHA BACKUP DATABASES ALPHA1 function ended.

RECOVERY

function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press END to exit

RECOVERY job list for DBDSGRP ALPHA1

USERID for jobname . . . _ (Y or N) USERID jobname suffix . . . _

Edit last job built . . . N (Y or N)

Alternate DBDLIB . . . _____

User JCLPDS library . . . _____

Select (S) Choose one job from the list below.

JOBNAME ALTNAME DESCRIPTION

_ ALF1RB1 _____ RECOVER ALL DATABASES FROM LATEST IMAGE COPIES

_ ALF1RX1 _____ REBUILD A HIDAM PRIMARY OR ANY DBORG SECONDARY INDEX

_ ALF1RX2 _____ REBUILD INDEX AND IMAGE COPY DATABASE INDEX

_ ALF1RX3 _____ RECOVER MAIN DB AND REBUILD ALL INDEXES, IB (V2.R3) ONLY

_ ALF1RI1 _____ RECOVER A SINGLE DATABASE OR INDEX FROM LATEST IMAGE COPY

_ ALF1RI2 _____ RECOVER DB & PRIME IDX/PTR CHK/REBUILD SECONDARIES

***** Bottom of data *****

IMS DB CONTROL SUITE V3.2 - PK27060

RUN JOBS

for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:17:09.82

DATE. .2006/08/09

JDTE. .2006.221

PRFX. .J849435

Select a job list or press END to exit

Job lists . . 3

1. Backup databases
2. Recover databases
3. Monitor/Reorganize databases
4. Fast Path Support
5. Database Recovery Facility
6. All jobs

Paul can use the Space Monitoring features to get a quick report on space usage and decide if a Reorg job is needed...

ALPHA RECOVERY ALPHA1 function ended.

IMS DB CONTROL SUITE V3.2 - PK27060

MONITOR DATABASES function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:17:15.06

DATE. .2006/08/09

JDTE. .2006.221

Select a subtask to continue or END to exit

Subtask . . 1 1. Setup monitor criteria
2. Submit monitor job
3. List monitored databases
4. More monitor related jobs

MONITOR SETUP function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press END to exit

Threshold Criteria for DBDSGRP . . ALPHA1

Activate (A) or Deactivate (D)

-----DATABASE-----				--#EXTENTS--		---%SPACE---		-%SPLITS-		--#DAYS--			
DBDNAME	DDNAME	DBORG	ACC	max	avl	lst	free	used	lst	CA	CI	pc	reorg
<u>A</u> _SMPORDP1	SMPORD1P	HIDAM	OSAM										
_SMPORDX1	SMPORD1X	INDEX	KSDS										
_SMPORDY1	SMPORD1Y	INDEX	KSDS										
_SMPORDY2	SMPORD2Y	INDEX	KSDS										
_SMPPAYP1	SMPPAY1P	HDAM	ESDS										
_SMPPAYY1	SMPPAY1Y	INDEX	KSDS										

***** Bottom of data *****

On this panel the DBD you want monitored is Activated and on the next panel...

MONITOR SETUP ALPHA1 function for CS ID ALPHA I

Command ==> _____

...your monitoring criteria is entered.

Press ENTER to continue or END to exit

DBD = SMPORDP1 DDN = SMPORD1P ORG = HIDAM ACCESS = OSAM

Maximum extents permitted 10 (0 to 99 or *)

Minimum available extents 10 (0 to 50 or *)

Data set used last extent Y (Y or N)

Minimum percentage of free space 010 (0 to 100 or *)

Maximum percentage of used space 090 (0 to 100 or *)

Data set used last space on volume Y (Y or *)

Maximum days between pointer checks 14 (0 to 99 or *)

Maximum days between reorgs * (0 to 999 or *)

IMS DB CONTROL SUITE V3.2 - PK27060

MONITOR SETUP function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:18:06.36

DATE. .2006/08/09

JDTE. .2006.221

Select a subtask to continue or END to exit

Subtask . . 2

1. Setup monitor criteria
2. Submit monitor job
3. List monitored databases
4. More monitor related jobs

Then it's as simple as
submitting the Monitor job
and viewing the output...

ALPHA MONITOR SETUP ALPHA1 function ended.

IMS DB CONTROL SUITE V3.2 - PK27060

MONITOR SUBMIT function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press END to exit

MONITOR job list for DBDSGRP ALPHA1

USERID for jobname . . = (Y or N) USERID jobname suffix . . _

Edit last job built . . N (Y or N)

Alternate DBDLIB . . _____

User JCLPDS library . . _____

Select (S) Choose one job from the list below.

JOBNAME ALTNM DESCRIPTION

S ALF1MON _____ SPACE MONITOR DATABASES

***** Bottom of data *****

Generating JCL for job ALF1MON

IMS DB CONTROL SUITE V3.2 - PK27060

MONITOR LIST DBS function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:20:44.62

DATE. .2006/08/09

JDTE. .2006.221

Select a subtask to continue or END to exit

Subtask . . 4 1. Setup monitor criteria
2. Submit monitor job
3. List monitored databases
4. More monitor related jobs

**Other, more sophisticated
Monitor/Reorg jobs are
available as well under this
category...**

ALPHA MONITOR LIST DBS ALPHA1 function ended.

MONITOR REL JOBS function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press END to exit

MONITOR job list for DBDSGRP ALPHA1

USERID for jobname . . _ (Y or N) USERID jobname suffix . . _

Edit last job built . . N (Y or N)

Alternate DBDLIB . . _____

User JCLPDS library . . _____

Select (S) Choose one job from the list below.

JOBNAME	ALTNAME	DESCRIPTION
_ ALF1PD1	_____	POINTER CHECKER FOR DATABASES
_ ALF1PI1	_____	POINTER CHECKER IMAGE COPIES OF DATABASES
_ ALF1RE1	_____	REORG DATABASES
_ ALF1REI1	_____	REORG/IMAGE COPY DATABASES
_ ALF1PR1	_____	PARALLEL REORG DATABASES
_ ALF1PRI1	_____	PARALLEL REORG/IMAGE COPY DATABASES
_ ALF1MON	_____	SPACE MONITOR DATABASES

***** Bottom of data *****

IMS DB CONTROL SUITE V3.2 - PK27060

RUN JOBS

for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:21:21.51

DATE. .2006/08/09

JDTE. .2006.221

PRFX. .J849435

Select a job list or press END to exit

Job lists . . . 5

1. Backup databases
2. Recover databases
3. Monitor/Reorganize databases
4. Fast Path Support
5. Database Recovery Facility
6. All jobs

Version 3.2 of the Control Suite leverages full integration with the IMS Database Recovery Facility...

ALPHA FASTPATH ALPHA1 function ended.

DRF JOBS DRF

function for CS ID ALPHA IMS Version 8.1

Command ==>

Press END to exit

DRF job list for CSID ALPHA

USERID for jobname . . . _ (Y or N)
Edit last job built . . . N (Y or N)
Verify data sets . . . N (Y or N)

USERID jobname suffix . . . _

Select (S) Choose one job from the list below.

JOBNAME	ALTNAME	DESCRIPTION
_ DRF1RD1	_____	RECOVGRP DATABASE RECOVERY FACILITY
<u>S</u> <u>DRF1RD2</u>	_____	DBDSGRP DATABASE RECOVERY FACILITY
_ DRF1RD3	_____	CAGRP DATABASE RECOVERY FACILITY
_ DRF1RD4	_____	DB DATABASE RECOVERY FACILITY
_ DRF1RD5	_____	DBDS DATABASE RECOVERY FACILITY

***** Bottom of data *****

The full list of DRF jobs is available for Paul to generate and submit for many complicated Recovery scenarios...

IMS DB CONTROL SUITE V3.2 - PK27060

DRF JOBS DRF

function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

Panel 3 of 3

DRF TSR or PITR parm .. N (N=none, T=Timestamp, P=Point in Time)

Specify an IMS timestamp for TSR or PITR recovery only

Timestamp value -

Date . . _____ (CCYY.DDD or YY.DDD)

Time . . _____ (HH:MM:SS.T)

Offset . . _____ (±HH:MM)

PITR Check . . _ (Y or N)

...such as Point In Time
Recovery...

Help Panel

IMS DB CONTROL SUITE V3.2 - PK2706

IDLH3011

COMMAND ==> _

DRF TSR or PITR' parm

This value specifies the type of recovery to be performed.

TSR specifies that a timestamp recovery will be performed.

Valid value is T . If used a timestamp must also be entered.

PITR specifies that a point-in-time recovery will be performed.

Valid value is P . If used a timestamp must also be entered.

NO specifies that the recovery will not involve timestamps.

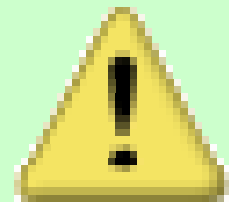
Valid value is N . If used a timestamp is ignored.

Enter - Next Help Panel

Each panel in the Control Suite has context sensitive online Help to explain settings and parameters for various Job options, so Paul never has to reach for a thick Users Guide.

Lack of Fast Path expertise

Paul's new to Fast Path and Fast Path support...with everything else he has to learn this is one area that he needs significant help with.



IMS DB CONTROL SUITE V3.2 - PK27060

RUN JOBS

for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:21:05.60

DATE. .2006/08/09

JDTE. .2006.221

PRFX. .J849435

Select a job list or press END to exit

Job lists . . . 4

1. Backup databases
2. Recover databases
3. Monitor/Reorganize databases
4. Fast Path Support
5. Database Recovery Facility
6. All jobs

The Control Suite has a full array of Fast Path support jobs as part of its 'Run Jobs' menu...

ALPHA MONITOR REL JOBS ALPHA1 function ended.

IMS DB CONTROL SUITE V3.2 - PK27060

FASTPATH

Function for CS ID FAST8 IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

PROCLIB Containing IFP PROC . . IMSVS.IMS8.PROCLIB

IFP Proc member . . FPUTIL

Fastpath Tools processing requires the use of a PROC for executing the Fast Path Utility Programs (IFP). Such a PROC can be modeled after the FPUTIL Procedure, which is supplied with IMS.

A Fast Path Tools PROC is required, but you can easily tailor one after the FPUTIL Procedure supplied with IMS...

FASTPATH function for CS ID FAST8 IMS Version 8.1

Command ==> _____

Press END to exit

FASTPATH DBDSGRP list

Enter F string on the ISPF command line to find a DBDSGRP, DBD/DDN/DSN, DBTYPE, CUSER or Description. Enter F by itself to redisplay the full table.

Select (S) Expansion of DBDSGRP (E)

DBDSGRP	CUSER	DESCRIPTION	DB TYPE
_ FAST8003	J849435	another fastpath im	FP
<u>S</u> _FAST8002	J849435	fastpath ims8	FP
***** Bottom of data			*****

Select the Fast Path DBDS group to act on...

FASTPATH function for CS ID FAST8 IMS Version 8.1

Command ==> _____

Press END to exit

FASTPATH job list for DBDSGRP FAST8002

USERID for jobname . . N (Y or N) USERID jobname suffix . . _

Select (S)

JOBNAME	ALTNAME	DESCRIPTION
_ FP81COMP	_____	DEDB Area Data Set Compare Utility (DBFUMMH0)
_ FP81CREA	_____	DEDB Area Data Set Create Utility (DBFUMRI0)
_ FP81RORG	_____	DEDB Direct Reorganization Utility (DBFUMDR0)
<u>S</u> FP81INIT	_____	DEDB Initialization Utility (DBFUMIN0)
_ FP81DLET	_____	DEDB Sequential Dependent Delete Utility (DBFUMDL0)
_ FP81SCAN	_____	DEDB Sequential Dependent Scan Utility (DBFUMSC0)

***** Bottom of data *****

...and you are presented with a host of Fast Path jobs that you just select and submit...

FASTPATH FP INIT Function for CS ID FAST8 IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

List of all available DBDs in DBDSGRP

Select One DBD(S)

If multiple are selected, only the first will be processed.

---- FP AREA ----

DBD

S DEDBJN21

***** Bottom of data *****

IMS DB CONTROL SUITE V3

FASTPATH FP INIT Function for CS ID FAST8 IMS Version 8.1

Command ==> _____

TIME. .15:12:52.44

Select an OPTION to continue or press END to exit

DATE. .2006/08/21

JDTE. .2006.233

Option: A

'I' Initialize Selective Areas

'A' Initialize All Areas for a DEBD

...such as a DEDB
Initialization utility
job...


```
EDIT          SYS06233.T095524.RA000.J849435.R0144533          Columns 00001 00072
Command ==> _____ Scroll ==> PAGE
***** Top of Data *****
==MSG> -CAUTION- Profile changed to CAPS ON (from CAPS OFF) because the
==MSG>          data does not contain any lower case characters.
000001 //FP81INIT JOB (J849435, 'IDIA,E241,090,IDIA'), JONES, REGION=0M, CLASS=A,
000002 // USER=J849435, TIME=(1,30), MSGCLASS=H, MSGLEVEL=(1,1), NOTIFY=J849435
000003 //PROC JCLLIB ORDER=IMSVS.IMS8.PROCLIB
000004 //*MEMBER=IDLF011A
000005 //*****
000006 //*
000007 //*  DBFUMIN0 STEP - DEDB INITIALIZATION UTILITY
000008 //*
000009 //*****
000010 //DBFUMIN0 EXEC PGM=DBFUMIN0
000011 //STEPLIB DD DISP=SHR,DSN=IMSVS.IMS810.
000012 //ACBLIB DD DISP=SHR,DSN=J849435.FPIVP
000013 //SYSPRINT DD SYSOUT=*
000014 //CONTROL DD *
000015 ALL
000016 //DB21AR11 DD DSN=J849435.FPIVP8.DB21AR11,
000017 // UNIT=SYSALLDA,
```

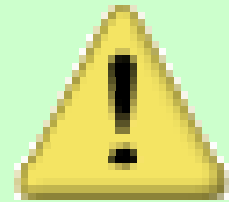
The JCL is generated immediately and is good to go, Paul can SUBmit it or save it for later...all done!

RECON Maintenance with the Control Suite

- **With the RECON Maintenance option, DBRC management has never been more efficient...**
 - Enhanced DBRC Interface in v3.2
 - All DBRC functions are supported
 - Can be used when no DBDSGRPs are defined
 - Includes creation and manipulation of BKOUT and SG records
 - Adds DELETE of RECOV and REORG records
 - Utility function to list all DB Exception information
 - Context sensitive help on all panels
 - When cursor is on a field and the user hits PF1
 - No more struggling with complex DBRC syntax

Lack of DBRC knowledge

Paul's is a DBRC shop, but he is still very new to the complex DBRC command syntax. He is finding RECON maintenance very time consuming and error prone.



IMS DB CONTROL SUITE V3.2 - PK27060
for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:25:31.63
DATE. .2006/08/09
JDTE. .2006.221
PRFX. .J849435

Select a task or press END to exit

- Tasks . . . 3
1. Set up environment
 2. Run jobs
 3. Maintain RECON
 4. Perform library integrity
 5. ISPF links to other IMS t
 6. System administration

The 'Maintain RECON'
function of the Control
Suite is one of it's most
powerful features...

ALPHA RUN JOBS function ended.

IMS DB CONTROL SUITE V3.2 - PK27060

RECON GROUP SELECTION function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:25:37.85

DATE. .2006/08/09

JDTE. .2006.221

Select an entry to continue or END to exit

Entry . . . 1

ALL DBDs

1. DBRC commands for ALL DBDs

2. non-DBRC commands and reports for ALL DBDs

DBDSGRPS

3. DBRC commands selectable by DBDSGRPS

commands and reports selectable by DBDSGRPS

The Control Suite has full built-in support for ALL DBRC commands and they can be executed per DBD or DBDSGRP...

ALLDBDS RECON

SELECTION function for CS ID ALPHA

IMS Version 8.1

Command ==> F CHANGE

Scroll ==> PAGE

Press ENTER to continue

Enter F string on the ISPF command
in the description field. Enter

Built in filter capability allows Paul to quickly navigate the long list of DBRC commands available to him and zero in by keyword...

DBDNAME . . ALLDBDS

Select (S) or help (H)

COMMAND	DESCRIPTION
BACKRES	BACKUP.RECON, VERSION 8
CADS8	CHANGE.ADS, VERSION 8
CBA8	CHANGE.BKOUT, CHANGE BACKOUT RECORDS, VER. 8
CCAGRP8	CHANGE.CAGRP, CHANGE CAGRP RECORD, VERSION 8
CCA8	CHANGE.CA, CHANGE A CHANGE ACCUMULATION, VERSION 8
CDBDSGR8	CHANGE.DBDSGRP, CHANGE A DBDSGRP RECORD, VERSION 8
CDBDS8	CHANGE.DBDS, CHANGE A DBDS RECORD, VERSION 8
CDB8	CHANGE.DB, CHANGE A DB RECORD, VERSION 8
CIC8	CHANGE.IC, CHANGE IMAGE COPY PARAMETERS, VERSION 8
CPART8	CHANGE.PART, CHANGE A PARTITION DATASET, VERSION 8
CPRILOG8	CHANGE.PRILOG, CHANGE A PRIMARY LOG RECORD (OLDS), VERSION 8

He can also enter a DBD Name here or choose the default 'ALLDBDS'

ALLDBDS RECON

SELECTION function for CS ID ALPHA

IMS Version 8.1

Command ==>

Scroll ==> PAGE

Press ENTER to continue or END to exit

Enter F string on the ISPF command line to display commands with that string in the description field. Enter F without a string to display all commands.

DBDNAME . . ALLDBDS

Select (S) or help (H)

COMMAND	DESCRIPTION
— CAD8	CHANGE.ADS, CHANGE A ADS RECORD, VERSION 8
— CBA8	CHANGE.BA, CHANGE A BA RECORD, VER. 8
— CCAGRP8	CHANGE.CCAGRP, CHANGE A CCAGRP RECORD, VERSION 8
— CCA8	CHANGE.CA, CHANGE A CA RECORD, VERSION 8
— CDBDSGR8	CHANGE.CDBDSGR, CHANGE A CDBDSGR RECORD, VERSION 8
— CDBDS8	CHANGE.CDBDS, CHANGE A CDBDS RECORD, VERSION 8
<u>S</u> CDB8	CHANGE.DB, CHANGE A DB RECORD, VERSION 8
= CIC8	CHANGE.IC, CHANGE IMAGE COPY PARAMETERS, VERSION 8
— CPART8	CHANGE.PART, CHANGE A PARTITION DATASET, VERSION 8
— CPRIOLOG8	CHANGE.PRILOG, CHANGE A PRIMARY LOG RECORD (OLDS), VERSION 8
— CPRIRLD8	CHANGE.PRILOG, CHANGE A PRIMARY LOG RECORD (RLDS), VERSION 8

After filtering on
'Change' commands,
let's select a 'Change
DB' command...

RECON CHANGE DB SELECT function for CS ID ALPHA IMS Version 8.1

Command ==> _____ PAGE

Press ENTER to continue or END to exit

Enter F string on the ISPF command line to display rows with string in them.

Select (S) or (G)

	DBNAME	TYPE	SHR	PT	DDN	DSNAME
—	SMPINVP1	IMS	2		**NULL**	**NULL**
<u>S</u>	SMPINVP1	IMS	3		SMPINV1P	J849435.TEST8.SMPINV1P.SHISAM.KSDS
—	SMPORDP1	IMS	3		**NULL**	**NULL**
—	SMPORDP1	IMS	3		SMPORD1P	J849435.TEST8.SMPORD1P.HIDAM.OSAM
—	SMPORDX1	IMS	3		**NULL**	**NULL**
—	SMPORDX1	IMS	3			...HIDAM.INDEX
—	SMPORDY1	IMS				SECINDEX
—	SMPORDY1	IMS				SECINDEX
—	SMPORDY2	IMS				SECINDEX
—	SMPORDY2	IMS				SECINDEX
—	SMPPAYP1	IMS	3			
—	SMPPAYP1	IMS	3		SMPPAY1P	J849435.TEST8.SMPPAY1P.HDAM.ESDS
—	SMPPAYY1	IMS	3		**NULL**	**NULL**
—	SMPPAYY1	IMS	3		SMPPAY1Y	J849435.TEST8.SMPPAY1Y.SECINDEX

The 'ALLDBDS' default means at some point all DBDs available to you are presented for you to choose from...again Filter capability is available to help you.

IMS DB CONTROL SUITE V3.2 - PK27060

RECON CHANGE DB RECORD function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

DBNAME	DDNAME	TYPE	DSNAME
SMPINV1P	SMPINV1P	IMS	J849435.TEST8.SMPINV1P.SHISAM.KSDS

NOAUTH/AUTH . . .	_____	(Optional)
TYPEIMS/TYPEFP . . .	_____	(Optional)
BACKOUT/NOBACK . . .	_____	(Optional)
Val (1-99) . . .	___	(Must be specified if BACKOUT specified)
SSID (name) . . .	_____	(Must be specified if BACKOUT or UNAUTH)
READOFF/READON . . .	_____	(Optional)
Sharelvl (0-3) . . .	__	(Optional)
NOICREQ/ICREQ . . .	_____	(Optional)
UNAUTH . . .	_____	(Optional)
ACTIVE/TRACKING . . .	_____	(Only allowed if UNAUTH specified)

Every parameter associated with this DBRC command is presented here in an interactive ISPF panel to be set without needing to remember syntax...

Help Panel
COMMAND ==> _

IMS DB CO

IDLRH297

And of course online Help is always available to explain parameters to Paul more fully so he understands the selections he is making...

DBD('cont)
ALL

Specifies that you are changing all the databases registered in RECON.

If any of the DBs are HALDB masters or partitions, and you have specified any of the restricted parameters (for example, the PINIT or NOPINIT parameters), a warning message is issued and command processing continues.

AUTH | NOAUTH

Mutually exclusive, optional parameters you use to specify whether the database is authorized to participate in data sharing.

AUTH

Indicates that authorization processing for data sharing is considered for the database.

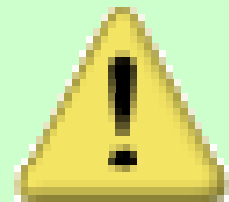
NOAUTH

Indicates that authorization processing for data sharing is prohibited for the database.

Enter - Next Help Panel

Cumbersome selection and execution of DBRC commands

Paul needs a way to submit DBRC commands interactively with some hand holding along the way...



IMS DB CONTROL SUITE V3.2 - PK27060

RECON CHANGE DB RECORD function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

DBNAME	DDNAME	TYPE	DSNAME
SMPINV1	SMPINV1P	IMS	J849435.TEST8.SMPINV1P.SHISAM.KSDS

NOAUTH/AUTH . . .	_____	(Optional)
TYPEIMS/TYPEFP . . .	_____	(Optional)
BACKOUT/NOBACK . . .	_____	(Optional)
Val (1-99) . . .	__	(Must be specified if BACKOUT specified)
SSID (name) . . .	_____	(Must be specified if BACKOUT or UNAUTH)
READOFF/READON . . .	_____	(Optional)
Sharelvl (0-3) . . .	<u>2</u>	(Optional)
NOICREQ/ICREQ . . .	_____	
UNAUTH . . .	_____	
ACTIVE/TRACKING . . .	_____	

After changing the parameters he deems necessary, Paul can quickly submit this command interactively...

File Edit Edit_Settings Menu Utilities Compilers Test Help

```
EDIT          J849435.ALPHA.SYSIN.SYSIN          Columns 00001 00072
Command ==>  _          Scroll ==> PAGE
***** ***** Top of Data *****
000001  CHANGE.DB +
000002    SHARELVL(2) +
000003  DBD(SMPINVP1)
***** ***** Bottom of Data *****
```

First, of course he can review the command to double check his changes and confirm before submitting...

IDLR306: IDLRCHAN - Press END to be prompted to execute these commands.

IMS DB CONTROL SUITE V3.2 - PK27060

RECON CONFIRMATION PANEL function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

Enter Y to confirm action or N to cancel action . . . Y (Y or N)

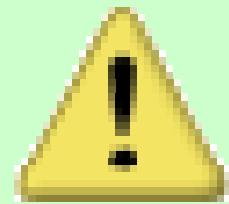
Entering 'Y' here submits his command and he's done...no need to ever struggle with complex DBRC syntax or learning DBRC commands ever again!

Library Integrity insurance with DBCS

- **The Database Control Suite integrates with IBM's IMS Library Integrity Utilities (LIU)...**
 - Helps manage IMS ACB, PSB, and DBD libraries.
 - Supports IMS Versions 6, 7, and 8.
 - Includes DBD/PSB/ACB Compare, DBD/PSB/ACB Reversal, and DBD/PSB/ACB Mapper.
 - Provides a Consistency Checker, which verifies that the associated ACB is created in the ACB Library and that the online database definition was created in the MODBLKS.
 - Provides an Integrity Checker, which helps to protect your databases from data integrity exposures such as a batch program using a test DBD to update a production database, or a batch program using a new DBD before the database is reorganized with the new DBD.

Using IBM's Library Integrity Utilities

As part of his many maintenance tasks, Paul is expected to use IBM's Library Integrity Utilities...a powerful tool but one with a learning curve, he needs a smooth way to access and use this tool effectively.



```
IMS DB CONTROL SUITE V3
LIBRARY INTEGRITY function for CS ID ALPHA
Command ==> _____
```

The full list of Library Integrity Utility functions are available to you through the Control Suite using an easy-to-use ISPF front end...

```
Select a subtask to continue or END to exit
```

- | | | |
|---------------|---|---|
| Subtask . . . | <u>1</u>
2.
3.

4.
5.
6.

7.
8.
9.
10.

11.
12. | 1. DBD Functions - Compare/Map/Reverse
DBDGEN
Compress

4. PSB Functions - Compare/Map/Reverse
PSBGEN
Compress

7. ACB Functions - Compare/Map/Reverse
ACBGEN
Compress
ACBlib Analyzer

11. Other functions - Consistency Checker
- Set up Integrity Checker |
|---------------|---|---|

IMS DB CONTROL SUITE V3.2 - PK27060

LIBRARY DBD FUNC function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:31:58.65

DATE. .2006/08/09

JDTE. .2006.221

Select a subtask to continue or END to exit

Subtask . . 3 1. Compare IMS Components

2. Map IMS Components

3. Reverse IMS Components

LIBRARY REVDDB function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press END to exit

DBD REVERSAL DBDLIB . . . J849435.TEST8.DBDLIB _____

DBDLIB member name filter . . . _____

Select (S) one name from the DBD list and press ENTER to process REVERSAL or edit the DBDLIB name and press ENTER for a new DBD list

DBDNAME

- SMPINVP1
- |S SMPORDP1
- = SMPORDX1
- SMPORDY1
- SMPORDY2
- SMPPAYP1
- SMPPAYY1
- SMPSUPP1
- SMPSUPX1
- SMPTABP1

The consistent layout and interaction of these panels gives it the same look and feel of all the other Control Suite functions.

***** Bottom of data *****

IMS DB CONTROL SUITE V3.2 - PK27060

LIBRARY REVDBD function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Press ENTER to continue or END to exit

Member name . . . SMPORDP1
Library data set name . . . J849435.TEST8.DBDLIB

Control Statements Requested

LIST	. . .	<u>Y</u>	(Y or N)
DECODE	. . .	<u>Y</u>	(Y or N)
XREF	. . .	<u>N</u>	(Y or N)
DDNAMES	. . .	<u>N</u>	(Y or N)
PROCOPT	. . .	<u>N</u>	(Y or N)

Simply select the Control Statements you want to request for the DBD Reversal...

IMS DB CONTROL SUITE V3.2 - PK27060

LIBRARY REVDBD SELECTIO function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:37:18.80

Press ENTER to continue or END to exit

DATE. .2006/08/09

JDTE. .2006.221

Select (S) or print (P) a file

- 'J849435.REVDBD.SMPORDP1.SYSPRINT'
- 'J849435.REVDBD.SMPORDP1.SYSOUT'
- S 'J849435.REVDBD.DBDSRC'
-

Menu Functions Utilities Help

BROWSE J849435.REVDBD.DBDSRC

Row 00020 of 00033

Command ==>

Scroll ==> PAGE

Name	Prompt	Size	Created	Changed	ID
. IVPDB1I					
. IVPDB2					
. IVPDB3					
. IVPDB4					
. IVPDB5					
. NOIX					
. NORDDB					
. ORDERDB					
. ORDRDB					
. ORDRSI					
. SMPINVP1					
S <u>S</u> MPORDP1					
. SMPTABP1					
. SMPTABP5					

End

And when Paul views
the output...

BROWSE J849435.REVDBD.DBDSRC (SMPORDP1)

Line 00000000 Col 001 080

Command ==> _

Scroll ==> PAGE

***** Top of Data *****

TITLE 'ASSEMBLE OF DBDNAME=SMPORDP1'

* DSNAME=J849435.TEST8.DBDLIB

* VOL=SYS155

* DBDGEN DATE 06/06/2006 TIME 16.32

DBD NAME=SMPORDP1, ACCESS=(HIDAM,

VERSION= DATE 06

* DATASET GROUP NUMBER 1

DSG001 DATASET DD1=SMPORD1P, SIZE=(4096), SCAN=0, FRSPC=(0, 2)

* SEGMENT NUMBER 1 *

SEGM NAME=SMP00210, PARENT=0, BYTES=340, RULES=(PLL, LAST), C

PTR=(TWINBWD, , , CTR,)

FIELD NAME=(IDPOR, SEQ, U), START=1, BYTES=10, TYPE=C

FIELD NAME=(CDPOT), START=12, BYTES=1, TYPE=C

FIELD NAME=(OSTAT), START=16, BYTES=1, TYPE=P

FIELD NAME=(DCLOSDPU), START=21, BYTES=4, TYPE=P

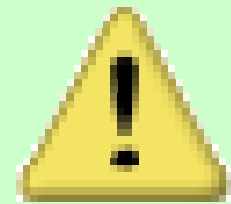
The entire Reversal is presented to him in report format, by segment...

Maintaining your Database Control Suite

- **With the DBCS's System Administration function, maintaining your Control Suite, migrating to a new version, and diagnosing potential problems (including capturing trace information) has never been simpler...**

Protecting his work

Paul's expected to save and protect the work he does with the Database Control Suite so others can pick up where he left off or quickly troubleshoot an issue with IBM Support if needed.



IMS DB CONTROL SUITE V3.2 - PK27060

SYSADMIN

function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME. .15:38:45.58

DATE. .2006/08/09

JDTE. .2006.221

Select a Control Suite administration task to continue or END to exit

Subtask . . 3 1. Backup table data set
2. Recover table data set
3. Diagnosis
4. Update table data set aft

The Administration tasks of the Control Suite allow Paul to diagnosis any problems with IBM Support quickly and efficiently, as well as backup his Control Suite tables...

IMS DB CONTROL SUITE V3.2 - PK27060

SYSADMN DIAGNOSIS function for CS ID ALPHA IMS Version 8.1

Command ==> _____

TIME - 15:38:57.73

Select a subtask to continue or END to exit

DATE - 2006/08/09

JDTE - 2006.221

Function . . 3 1. Set Debugging Options

2. System Information

3. Tool Library Apar Information

IMS DB CONTROL SUITE V3.2 - PK27060

DIAGNOSIS FOR TOOL LIBRARIES function for CS ID ALPHA IMS Version 8.1

Command ==> _____

Select (S) to continue or END to exit

<u>S</u> HPIC/ICE Image Copy Extensions	IMSTOOL.HPIC41.FAB.SHPSLMD0
= High Performance Unload	IMSTOOL.HPUL.FAB.SHPSLMD0
_ High Performance Load	IMSTOOL.HPLD21.FAB.SHPSLMD0
_ IMS Parallel Reorg	IMSTOOL.IPR21.SHPSLMD0
_ High Performance Ptr. Checker	IMSTOOL.HPPC21.HPS.SHPSLMD0
_ Library Integrity Utilities	DBTMAIN.LIU110.SHPSLMD0
_ Fast Path Basic Tools	IMSTOOL.FPBV1R2.D060702.SFABLMDO

These diagnosis and support functions are not only useful for the Control Suite, but are also integrated and available for all the other IMS Tools installed...

BROWSE J849435.ALPHA.SYSPRINT.LIST

Line 00000000 Col 001 080

Command ==> _

Scroll ==> PAGE

***** Top of Data *****

IMS HIGH PERFORMANCE IMAGE COPY - DIAGNOSTIC AID

"LOAD MODULE APAR STA

5855 N45

DATE: 08/09/2006 TIM

MODULE LIBRARY : IMSTOOL.HPIC41.FAB.SHPSLMD0

MODULE NAME	ALIAS-OF	CSECT NAME	APAR NUMBER	APAR FIX-DATE	CSECT NAME	APAR NUMBER
FABJACHK		FABJACHK	PK11605	03/08/2006		
FABJAPIB		FABJAPIB	BASE-05	04/30/2005		
FABJAPIM		FABJMSGP	PK28092	07/14/2006	FABJAPIM	PK23423
		FABJDATE	PK09541	03/08/2006	FABJRPT0	PK26299
		FABJCTCV	PK26299	06/18/2006	FABJCZCV	PK26299
		FABJTERM	PK23423	07/04/2006	FABJCP40	PK11605
		FABJCP4S	PK11605	03/08/2006		
FABJAPIS		FABJAPIS	PK11605	03/08/2006		
FABJATRC		FABJATRC	PK26299	06/18/2006	ATRCSTAE	*****
FABJCMP1		FABJCMP1	PK28092	07/14/2006		
FABJCMP2		FABJCMP2	PK28092	07/14/2006		

Summary

- **If your role includes any aspect of IMS DB management, then IMS Database Control Suite Version 3.2 will make your life easier and more productive, giving you more time to spend on application and business matters**
- **Version 3.2 provides higher performance, easier setup, enhanced usability, and even richer function than ever before**
- **Additionally, it provides user friendly access to all the functions of DBRC via an intuitive ISP interface**

Questions and Discussion

- **Thank you for your time!**
- **jsacco@us.ibm.com to contact me**
- **IMS Database Control Suite v3.2**
 - Product number 5655-L08
 - <http://www.ibm.com/software/data/db2imstools/imstools/msdbcntrlsuite.html>