

IBM Software Group

IMS32 IMS V9 KBLA Overview: A new interface for accessing utilities to analyze IMS log records Alison Coughtrie alison_coughtrie@uk.ibm.com





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KBLA

New facility for IMS log record analysis

- ISPF driven interface
 - 39 panels
- Set of log record formatting and analysis routines



Benefit

- Provides an easy to use, easy to read interpreted version of the IMS log records
- Creates syntactically correct control statements and valid JCL for the utilities
 - Reduces the need to reference the manuals and minimizes errors
- Introduces new log analysis utilities



- X'32'
- X'31'
- X'21' X'24'
- X'20'
- X'12' X'16'
- X'11'
- X'08' X'10'
- X'06' X'07'
- X'03'
- X'01' X'02'

Log Records Analyzed

- X'37' X'38'

IBM Software Group – DB2 Information Management Software

X'34'

X'35'

X'36'

- X'39'
- X'40' (13 of 48 subcodes formatted)
- X'42'
- X'48'
- 'X50'
- X'55'
- X'56'
- X'59'
- X'63'





X'72'



KBLA Panel Structure





Invoking KBLA ...

- EX 'hlq.SDFSEXEC(DFSKBSRT)' 'HLQ(hlq)'
- Can be invoked from the IMS Application Menu:





KBLA Primary Menu





First Things First - KBLA Environment

- Set up the environment
 - From the main panel, choose Task 0



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First Things First

- Define the data sets
 - From the KBLA Environment Maintenance panel, choose subtask 1



Job Card

- After defining the KBLA environment, press enter to see what the JOB card will look like for all jobs generated by the utility
 - Modify as needed



Log Selection

From the main panel select option 5 – Log Selection

```
IMS K.B.L.A. - Log Selection and Tailoring
Command ===>
                                                         TIME....02:54:38
                                                         DATE....2004/11/26
                                                         JULIAN. 2004.331
Select any of the following subtasks and press ENTER .
   Subtasks . . 1. Select Logs from RECON
                   2. Input List of Logs
                   3. Create PDS Member(s) from Sorted Input List
                   4. Sort Records Within Logs
To Exit the KBLA menu, press END .
For Help place cursor on any field and press PF1 .
F1=HELP
             F2=SPLIT
                           F3=END
                                        F4=RETURN
                                                                  F6=RCHANGE
                                                     F5=RFIND
                                       F10=LEFT
F7=UP
            F8=DOWN
                          F9=SWAP
                                                    F11=RIGHT
                                                                 F12=RETRIEVE
```



Log Selection

Select subtask 1 – select Logs from RECON

IMS K.B.L.A Select Logs From RECON
Command ===>
TIME10:54:21
Fill out the following variables and press ENTER . JULIAN. 2005.088
COPY1 DSN
COPY2 DSN
IMS Log Version <mark>9</mark>
Start Date
Start Time (UTC)
Stop Date (Julian Date eg: 2002190)
Stop Time (UTC) (hhmmss eg: 133500)
Output DSN Keyword IM9A The Output DSN will be:
Use Existing LIST.LOG? . (Y/N) COUGHTA.keyword.KBLA
DSN Containing LIST.LOG.
SSIDS. <mark>IM9A IM9B</mark>
F1=HELP F2=SPLIT F3=END F4=RETURN F5=RFIND F6=RCHANGE
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT F12=RETRIEVE



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Log Selection

Select subtask 1 – select Logs from RECON – sample output

START TIME USED :	2005001000000		
NUMBER OF CNTLCRDS RECORDS READ :	5		
NUMBER OF SSIDS SUPPLIED :	2		
NUMBER OF SYSPRINT LINES READ :	850		
MAX. ALLOWABLE NUMBER OF LOG DSNS :	100		
NUMBER OF LOG DSNS SELECTED :	10		
SELECTED LOG DSN=IMSDATA.IM9A.SLDSP	.D04352.T1236092.V02	SSID=IM9A	
LOG TIME RANGE: 04352/1236092 - 0	5029/0223398		
SELECTED LOG DSN=IMSDATA.SLDSP.IM9B	.D04352.T1312330.V02	SSID=IM9B	
LOG TIME RANGE: 04352/1312330 - 0	5025/1110422		
SELECTED LOG DSN=IMSDATA.IM9A.SLDSP	.D05042.T1641082.V03	SSID=IM9A	
LOG TIME RANGE: 05042/1641082 - 0	5047/2000157		
SELECTED LOG DSN=IMSDATA.SLDSP.IM9B	.D05046.T1544213.V02	SSID=IM9B	
LOG TIME RANGE: 05046/1544213 - 0	5047/2000153		
SELECTED LOG DSN=IMSDATA.IM9A.SLDSP	.D05047.T2004548.V04	SSID=IM9A	
LOG TIME RANGE: 05047/2004548 - 0	5071/0805155		
SELECTED LOG DSN=IMSDATA.SLDSP.IM9B	.D05047.T2008507.V03	SSID=IM9B	
LOG TIME RANGE: 05047/2008507 - 05	071/0805156		
SELECTED LOG DSN=IMSDATA.IM9A.SLDSP	.D05073.T1139375.V05	SSID=IM9A	
LOG TIME RANGE: 05073/1139375 - 0	5081/1408276		
SELECTED LOG DSN=IMSDATA.SLDSP.IM9B	.D05073.T1141531.V04	SSID=IM9B	
LOG TIME RANGE: 05073/1141531 - 0	5081/1408274		
SELECTED LOG DSN=IMSDATA.IM9A.SLDSP	.D05081.T1409270.V06	SSID=IM9A	
LOG TIME RANGE: 05081/1409270 - 0	5081/1414346		
SELECTED LOG DSN=IMSDATA.IM9A.SLDSP	.D05081.T1414346.V02	SSID=IM9A	
LOG TIME RANGE: 05081/1414346 - 0	5082/1606171		



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KBLA Task Selection 1 - IMS Log Utilities

- Bring up the IMS Log Utilities Panel
 - From the main panel, select Task 1

IMS K.B.L.A IMS Log Utilities							
Command ===>							
					TIME	.21:26:46	
					DATE	.2004/11/23	
					JULIAN.	.2004.328	
Select any of	the following	, subtasks a	nd press ENTE	R.			
- • · •					<i>(</i>		
Subtasks .	\cdot 1. IMS I	log Transact	ion Analysis	-	(DFSILTA0)		
	2. IMS F	ast Path Lo	g Analysis	-	(DBFULTA0)		
	3. IMS S	Statistical 2	Analysis	-	(DFSISTS0)		
	4. IMS I	log Merge Ut	ility	-	(DFSLTMG0)		
	5. IMS I	log Recovery	Utility	-	(DFSULTRO)		
	6. Progr	am Isolatio	n Trace Repor	t -	(DFSPIRP0)		
	7. IMS F	Records User	Data Scrub	-	(DFSKSCR0)		
To Exit the K	BLA menu, pres	s END .					
For Help place	e cursor on an	y field and	press PF1 .				
F1=HELP	F2=SPLIT	F3=END	F4=RETURN	F5	5=RFIND	F6=RCHANGE	
F7=UP	F8=DOWN	F9=SWAP	F10=LEFT	F11	=RIGHT	F12=RETRIEVE	

Help Panels

K.B.L.A Subtask 1 - IMS Log Utilities HELP Panel									
This is the ISPF Panel interface for using the most important IMS Log Analysis Utility. In Specific:									
1. IM	S Log Transaction	Analysis -	(DFSILTA0)						
This KBLA panel allows you to interface with the IMS log utility named "DFSILTAO", without coding any JCL statements.									
More information about the utility itself and the information									
option. Field level help is also supported.									
2. IMS Fast Path Log Analysis - (DBFULTA0)									
This KBLA panel allows you to interface with the IMS Fast Path									
(FP) Log Analysis utility DBFULTA0.									
Continue									
F1=HEL	P F2=SPLIT	F3=END	F4=RETURN	F5=RFIND	F6=RCHANGE				
F7=UP	F8=DOWN	F9=SWAP	F10=LEFT	F11=RIGHT	F12=RETRIEVE				
		S. 67 (7)							

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IMS Statistical Analysis Utility

 Bring up the IMS Statistical Analysis Utility Panel - from the IMS Log Utilities Panel, select Subtask 3

== K.B.L.A. Statistical Analys	sis Utility ==
Input IMS Log DSN IMSDATA.IM9A.SLDSP.D04323.T155	50387.V00 Cataloged? Y
IMS Log Version 9	
Normal or Date Sort N	(N/D)
Message Select Output Y	(Opt. Y/N)
Start Date/Time (UTC)	(Date: Julian)
Stop Date/Time (UTC)	(Time: HHMMSS)
Extract by TRAN Code ALL	(TRANname/All/None)
Extract Input Messages	(Y/N)
Extract Output Messages	(Y/N)
Extract by LTERM Name ALL	(LTERMname/All/None)
Extract Input Messages	(Y/N)
Extract Output Messages	(Y/N)
Output Msgs by LTERM	(LTERMname/All)
Extract by NODE Name	(NODEname/All/None)
Extract Input Messages	(Y/N)
Extract Output Messages	(Y/N)
Output Msgs by NODE	(NODEname/All)
Output DSN Keyword IM9A	The Output DSN will be:
COMMAND ===>	

Help Panels – Field Level

K.B.L.A. - FIELD HELP - Extract by TRAN Code

This field generates the necessary JCL SYSIN control statement to obtain DFSISTS0 reports exclusively for the supplied eight characters transaction code (tranname) and it is valid only if the above field "Message Select Output" has been set to Y (Yes).

The values the user can specify in this field are:

- 1. Valid tranname (up to 8 characters); wildcard character ("*") allowed
- 2. ALL (for selecting all transaction codes)
- 3. BLANK or NONE (for no transaction code filtering)

Using the next two fields in this panel (Extract Input Messages, Extract Output messages) the user can further limit the reports produced to the sole input or output messages respectively, for the supplied transaction code (tranname).

For more information refer to the following manual:

"Utility Reference: System" Chapter: "Statistical Analysis Utility (DFSISTSO)"

F1=HELP	F2=SPLIT	F3=END	F4=RETURN	F5=RFIND	F6=RCHANGE
F7=UP	F8=DOWN	F9=SWAP	F10=LEFT	F11=RIGHT	F12=RETRIEVE



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IMS Statistical Analysis Utility

Example of the JCL generated

File Edit Edit_Settings Menu Utilities Compilers Test Help							
EDIT COUGHTA.KBLA.SDFSKJCL(DFSKBJ10) - 01.01 Columns 00001 00072							
000143 //IST40 EXEC PGM=DFSIST40							
000144 //IMSLOGP DD DISP=(NEW,CATLG,CATLG),							
000145 // DSN=COUGHTA.IM9A.KBLA.I.X04328.Y222314,							
000146 // UNIT=SYSDA,							
000147 // SPACE=(CYL,(100,50),RLSE),							
000148 // DCB=(LRECL=133,BLKSIZE=6118,RECFM=FBA)							
000149 //IMSLOGI DD DSN=COUGHTA.DFSKBL10.EDIT34IN,							
000150 // DISP=(OLD,DELETE)							
000151 //SYSPRINT DD SYSOUT=*							
000152 //SYSIN DD *							
000153 TRANS CODE=(ALL,,)							
000154 SYM NAME=(ALL,,,)							
000155 //**********************************							
000156 //***** STEP 8 ***********************************							
000157 //***********************************							
000158 //PRTDCB EXEC PGM=IEBGENER							
000159 //SYSPRINT DD SYSOUT=*							
000160 //SYSUT1 DD DISP=SHR,DSN=*.IST30.PRINTDCB							
Command ===> Scroll ===> PAGE							
F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange F7=Up							
F8=Down F9=Swap F10=Left F11=Right F12=Cancel							

IMS Log Utilities - Records User Data Scrub

- IMS Records User Data Scrub
 - From the IMS Log Utilities Panel, select Subtask 7



IMS Records User Data Scrub





IMS Records User Data Scrub ... Summary output

```
CONTROL CNTL STOPAFT=EOF
* IMS-V9 INPUT LOG DATA SET NAME(S):
* IMSDATA. IM9A. SLDSP. D04323. T1550387. V00
* RECORDS USER DATA SCRUB
OPTION COPY E=DFSKSCR0
*
DFS707I END OF FILE ON INPUT
#01 RECORDS PROCESSED:
                    384
#03 RECORDS PROCESSED: 2,929
#50 RECORDS PROCESSED: 12,120
#5901 RECORDS PROCESSED: 1,967
#5903 RECORDS PROCESSED: 1,967
#5950 RECORDS PROCESSED:26,917
#67 RECORDS PROCESSED: 0
DFS708I OPTION COMPLETE
DFS703I END OF JOB
```



Database Change Record <u>before</u> running Scrub

5050 RECORD - RECOVERY/BACKOUT DATA									
RBA/RBN: 00001000 PST: 0001 PSB: IVPQPP2									
DBD: QPPDB22 DCB: 01	BACKOUT RECORD: NO	CALL TYPE: ISRT							
RCVY TOKEN: C9D4F9C140404040	RCVY TOKEN: C9D4F9C14040404000000000000000000000000000000								
UNDO (PHYSICAL ISRT) DATA FO	LLOWS:								
0004CFF8 000000 8080062C 003A0	100 0000116A 000015F2	0000162C 0002000B D3C1E2E3 F7F14040 *22							
0004D018 000020 4040C6C9 D9E2E	3F2 40404040 F860F1F1	. F160F2F2 F2F2C4F0 F261D9F0 F2404040 * FIRST2 8-111-2222D02/R02 *							
DATE/TIME: 2005-03-22 12:52:53.403819 UTC LOG SEQ NO: 000000CC									



Database Update Record <u>after</u> running Scrub

	5050 RECORD - RECOVERY/BACKOUT DATA	
	RBA/RBN: 00001000 PST: 0001	PSB: IVPQPP2
	DBD: QPPDB22 DCB: 01 BACKOUT RECORD: NO	CALL TYPE: ISRT
	RCVY TOKEN: C9D4F9C14040400000000000000000000000000000000	
	UNDO (PHYSICAL ISRT) DATA FOLLOWS:	
	00064FF8 000000 8080062C 003A60C3 D3C5C1D9 C5C4606E	00000000 00000000 000 0000000 0000000 *CLEARED->*
\checkmark	00065018 000020 0000000 0000000 0000000 0000000	00000000 00000000 000 0000000 0000000 **
	DATE/TIME: 2005-03-22 12:52:53.403819 UTC	LOG SEQ NO: 000000CC



KBLA Task Selection 2 - IMS Log Formatting

- Bring up the IMS Log Formatting Panel
 - From the Main panel, choose Task 2



KBLA IMS Resources Formatting

- Bring up the KBLA Log Record Formatting panel
 - From the Log Formatting Selections panel, enter subtask 1



Key in the resource name to audit and the associated information type.

== K.B.L.A. Resources Formatt:	ing ==						
COMMAND ===>							
Input IMS Log DSN <u>IMSDATA.IM9A.LOG</u>	Cataloged? Y						
IMS Log Version							
Resource Name to Audit 000000000000000000000000000	(Required - Any Name)						
Terminal Input/Output Messages N	(Y/N)						
Transaction Scheduling Instances \underline{Y}	(Y/N)						
SIGN ON for Given Terminal	(Y/N) Instanti generate JCL requesting di						
Security Violation Records N (Y/N)							
DB Update Records N	(Y/N) scheduling that termination for resource						
FP Update Records N	(Y/N)						
Recoverable Commands entered N	(Y/N)						
Log Formatting Type	(B,S,K or U) The Output DSN will be:						
COUGHTA.keyword.KBLA							
Log DSNs were extracted from RECON. N							
PDS member containing logs							
F1=HELP F2=SPLIT F3=END F4=RETU	JRN F5=RFIND F6=RCHANGE						
F7=UP F8=DOWN F9=SWAP F10=LEFT	F11=RIGHT F12=RETRIEVE						

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KBLA IMS Resources Formatting Output

- Sample of the generated output
 - In this example Log Formatting Type "K" (KBLA) was selected

0	8 RECORD APPLICATION PROGRAM SCHEDULED
	PSB NAME: 0QPPDB21
	REGION #: 0004 RCVY TOKN: N/A
	REG TYPE: FP NON-MESSAGE DRIVEN BMP
	DATE/TIME: 2005-02-16 18:28:50.038234 UTC LOG SEQ NO: 00000301
0	7 RECORD APPLICATION PROGRAM TERMINATED
	PSB NAME: 0QPPDB21 TRAN CODE: JOB NAME: QPPDB2
	REGION #: 0004 RCVY TOKN: C9D4F9C140404000000080000003
	REG TYPE: BMP REGION STEP NAME: QPPDB21
	DATE/TIME: 2005-02-16 18:29:28.385318 UTC LOG SEQ NO: 00000484
0	8 RECORD APPLICATION PROGRAM SCHEDULED
	PSB NAME: 0QPPDB21
	REGION #: 0001 RCVY TOKN: N/A
	REG TYPE: FP NON-MESSAGE DRIVEN BMP
	DATE/TIME: 2005-02-16 19:37:30.155332 UTC LOG SEQ NO: 00000583
0	7 RECORD APPLICATION PROGRAM TERMINATED
	PSB NAME: 0QPPDB21 TRAN CODE: JOB NAME: QPPDB2
	REGION #: 0001 RCVY TOKN: C9D4F9C14040400000000000000000000000000000000
	REG TYPE: BMP REGION STEP NAME: QPPDB21
	DATE/TIME: 2005-02-16 19:38:06.638508 UTC LOG SEQ NO: 000007AB

KBLA IMS Resources Formatting Output...

- Sample of the generated output
 - In this example Log Formatting Type "B" (Basic) was selected

-08 RECORD	APPL	ICATION PGN	A SCHEDULEI	D DAT	TE/TIME :	2005-02-16	18:28:50.	038234 UTC		
00000000	000000	00700000	0850F0D8	D7D7C4C2	F2F10000	0000000	00000000	00 000000	00000040	*&0QPPDB21*
00000020	000020	00040000	00000000	00000000	0000000	0000000	000F0000	00 000000	00000000	**
00000040	000040	00000000	00000000	00000000	0000000	0000000	2005047F	18 283003	8231000C	*B*
00000060	000060	BC94F563	9B1DA809	00000000	00000301					*.M5Y*
-07 RECORD	APPL	ICATION PGN	1 TERMINATI	ED DAT	TE/TIME :	2005-02-16	18:29:28.	385318 UTC		
0000000	000000	015C0000	07F0D8D7	D7C4C2F2	F1404040	40404040	40000200	00 000000	00000000	*.*0QPPDB21*
00000020	000020	D8D7D7C4	C2F24040	D8D7D7C4	C2F2F140	0000000	00000002	00 000019	000001B	*QPPDB2 QPPDB21*
00000040	000040	00000000	00000000	00000000	000001E	0000000	00000000	00 000051	00000000	**
00000060	000060	00000000	00000000	00000000	0000000	0000000	00000000	00 000000	00000000	**
00000080	000080	00000000	00000000	0000000	0000000	0000003	00000000	00 000000	00000000	**

KBLA IMS Resources Formatting Output...

Sample of the generated output



	-07	RECORD	APPLICATION	PGM	TERMINATED	LSN:	00000484	DATI/TIME:	2005-02-16	18:29:28.385318 UT
ŀ	-08	RECORD	APPLICATION	PGM	SCHEDULED	LSN:	00000583	DATI/TIME:	2005-02-16	19:37:30.155332 UT
	-07	RECORD	APPLICATION	PGM	TERMINATED	LSN:	000007AB	DATI/TIME:	2005-02-16	19:38:06.638508 UT
ŀ	-08	RECORD	APPLICATION	PGM	SCHEDULED	LSN:	000007BA	DATI/TIME:	2005-02-16	19:42:15.640723 UT
	-07	RECORD	APPLICATION	PGM	TERMINATED	LSN:	000009DB	DATI/TIME:	2005-02-16	19:42:52.168843 UT
	-08	RECORD	APPLICATION	PGM	SCHEDULED	LSN:	000009F0	DATI/TIME:	2005-02-16	19:55:28.824606 UT
	-07	RECORD	APPLICATION	PGM	TERMINATED	LSN:	00000C11	DATI/TIME:	2005-02-16	19:56:05.877636 UT



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KBLA IMS Resources Formatting Output...

- Sample of the generated output
 - In this example Log Formatting Type "U" (Unformatted) was selected

. &0QPPDB21	b~m5İ.y
.0QPPDB21QPPDB2 QPPDB21	ééé
. &0QPPDB21DFSDDLT0	
.0QPPDB21 0QPPDB2 QPPDB21	é.
.&0QPPDB21	". íÀ~n.ò.z^
.0QPPDB21QPPDB2 QPPDB21	é
. &0QPPDB21	".í.bã~n.Aþ.Yµ0
.00PPDB21	éé
A	



KBLA IMS Subcomponent Log Filtering

- Bring up the KBLA Log Record Formatting panel
 - From the Log Formatting Selections panel, enter subtask 2
 - Key in the subcomponent that you wish to select related log records for

== K.B.L.A. Subcomp	ponent Log Filtering ==				
Input IMS Log DSN IMSDATA.IM9A.SLDSP.	.D05042.T1641082.V03 Cataloged? Y				
IMS Log Version 9					
DC Log Records \ldots \ldots \ldots N (Y/N)					
DB Log Records N (Y/N)	This panel will generate JCL requesting	a			
FP Log Records \ldots \ldots \ldots N (Y/N)	subset of log records related to a				
System Log Records N (Y/N)	specific IMS subcomponent				
QMGR Log Records N (Y/N)	(in this case an OLR)				
RSR Log Records N (Y/N)					
OLR Log Records \underline{Y} (Y/N)					
CQS Log Records N (Y/N)					
DPROP Log Records N (Y/N)					
Filter Log With Keyword	(Optional - Any Name)				
Log Formatting Type <u>K</u>	(B,S,K or U)				
Output DSN Keyword <u>IM9A</u>	The Output DSN will be:				
	COUGHTA.keyword.KBLA				
Log DSNs were extracted from RECON.	N				
COMMAND ===>					
F1=HELP F2=SPLIT F3=END	F4=RETURN F5=RFIND F6=RCHANGE				
F7=UP F8=DOWN F9=SWAP	F10=LEFT F11=RIGHT F12=RETRIEVE				

KBLA IMS Subcomponent Log Filtering Output...

- Sample of the generated output
 - In this example Log Formatting Type "K" (KBLA) was selected and all log records associated with OLR (type 29) are selected

BRC	WSE COUGHTA.IM9A.KBLA.X05080.Y161009 Line 00000051 Col 001 080						
2990	RECORD - OLR: OWNERSHIP RELINQUISHED						
	PST NO: 0001 DBD NAME: OPPDB2 PSB NAME: 00PPDB23						
	PARTITION NAME: OPPOR23 RSE NAME: TM9A						
	BEASON BEAND CODE N/A SECMENTS COPTED: 0000000						
	DATE /TIME: 2005-02-11 16:58:22 674742 HTC LOC SEO NO: 00000094						
2910	RECORD - OLR: OWNERSHIP ESTABLISHED						
	PST NO: 0000 DBD NAME: OPPDB2 PSB NAME: 00PPDB23						
	DARTITION NAME: OPDDR23 BSE NAME: TM9A						
	EFFECTIVE RATE VALUE - 100 OWNERSHID INT CMD NODEL OPT						
	DATE /TIME: 2005-02-15 13:00:43 264891 HTC LOG SEO NO: 000000C8						
2901	RECORD - OLR: PARTITION RESPONSE DATA						
	RSE NAME: IM9A OM CMD TOKN: 00000000FCC390000000000000000						
	OM COMPL CODE: 404040F0						
	DATE /TIME · 2005-02-15 13:00.43 265567 HTC I.CC SEO NO: 000000C9						
2909	RECORD - OLR: OM COMMAND RESPONSE SENT						
	RSE NAME: IM9A OM CMD TOKN: 000000000FCC390000000000000000						
	OM COMPL CODE: BC936A2F						
	DATE/TIME: 2005-02-15 13:00:43.265775 UTC LOG SEO NO: 000000CA						
2930	RECORD - OLR: OUTPUT DATA SET INFO						
	PST NO: 0001 DBD NAME: QPPDB2 PSB NAME: 0QPPDB23						
	PARTITION NAME: QPPDB23 RSE NAME: IM9A						
	USN: 00000000 USID: 00000007						
	OUTPUT DATA SETS: A-J,X DB ORG: PHIDAM Dataset Entries: 003						
	VSAM DATA SET INFO FOR DDNAME: QPPDB23A (NON-KSDS)						
CI SIZE: 00002048 REC SIZE: 00002041 SHARE OPTIONS: (3 3)							
CI FREESPACE PERCENT: 000 CA FREESPACE PERCENT: 000							
	PRI/SEC ALLOC: 00000010/00000005(MB) REQUESTED VOLUMES: 01						
	VOLSERS:QPP						
	CREATED D/S - SMS MANAGED NON-REPLICATE ATTRIBUTE						

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KBLA Log Record Formatting

- Bring up the KBLA Log Record Formatting panel
 - From the Log Formatting Selections panel, enter subtask 3
 - Key in the records to extract. In this example, we are extracting type 2950 records

	== K.B.	L.A. Log Re	cord Formattin	g ==					
Input IMS Lo	DG DSN IMSDATA	A.IM9A.SLDSP	.D04322.T092754	1.V00	Cataloged? Y				
IMS Log Vers	sion	. 9							
Extract Reco	ord(s)	. 2950			(eg. 01 02 5912)				
Log Formatti	ing Type	. K	(B,S,K 01	c U)					
Output DSN H	Keyword	. IM9A							
			Output I	SN: COUGHTA	Keyword.KBLA				
Optional par	rameters								
Print /TRA	A Log Record		. N (Y/M	1)					
Print Inte	ernal Traces		. N (Y/M	1)					
Filter by	Keyword	•	I	Keyword Type:	DATA (below)				
(SYSID, PSB, PST, DBD, RBA, BLOCK, USERID, KEY, OFFSET, UNDO, REDO, DATA)									
Number of	Records to So	can	. EOF						
Number of	Records to SI	cip	•						
Log DSNs v	vere Extracted	d from RECON	. N	Use this p	oanel when you kno	w			
PDS member	r Containing I	Logs		exactly the l	og record types you	need			
COMMAND ===>	>	-							
F1=HELP	F2=SPLIT	F3=END	F4=RETURN	F5=RFIND	F6=RCHANGE				
F7=UP	F8=DOWN	F9=SWAP	F10=LEFT	F11=RIGHT	F12=RETRIEVE				
					·				

IMS Traces Formatting

- Bring up the IMS Traces Formatting panel
 - From the main panel, choose Task 2 to bring up the IMS Log Formatting
 - In the IMS Log Formatting panel, select Subtask 4







IMS Traces Formatting ...

- Select the traces to be analyzed or specify "Y" in the field labelled ALL TRACES
 - > This example requests extraction of all active trace records in the log

		== K.B.L	.A. IMS Trace	For	matting =	==		
Input IMS Log DSN IMSDATA.IM9A.SLDSP.D04322.T0927541.V00 Cataloged? Y IMS Log Version 9								
Select one of	or m	ore trace	es					
APPC	. N	(Y/N)	Log Router	. N	(Y/N)	Shared	Queue . N	(Y/N)
DC Error	. N	(Y/N)	MSC	N	(Y/N)	Storage	Mgr N	(Y/N)
DIAG Records	. N	(Y/N)	MSCT	N	(Y/N)	Subsyst	ems N	(Y/N)
Disk Log	. N	(Y/N)	Node	N	(Y/N/S)	Transac	tion N	(Y/N)
Dispatcher.	. N	(Y/N)	OCMD	N	(Y/N)			
DL/1	. N	(Y/N)	ORS	N	(Y/N)	ALL TRA	CES Y	(Y/N)
FORCE	. N	(Y/N)	OTMA	N	(Y/N)			
FP Region .	. N	(Y/N)	Queue Mgr	N	(Y/N)	Extract 6	7FA/6701 lo	a record
FP Table	. N	(Y/N)	RRST	N	(Y/N)	produ	iced as a res	sult of
Latch	. N	(Y/N)	Scheduler	. N	(Y/N)	/TRACE	SET ON TA	BLE xxx
Filter Selected Traces That Contain.								
COMMAND ===>								
F1=HELP	F2	=SPLIT	F3=END	F4	=RETURN	F5=RFIND	F6=RCHA	NGE
F7=UP	F8	=DOWN	F9=SWAP	F10	=LEFT	F11=RIGHT	F12=RETR	IEVE



IMS Traces Formatting ...

The appropriate JCL and control cards for the selected traces are generated

```
File Edit Edit Settings Menu Utilities Compilers Test Help
EDIT
      COUGHTA.KBLA.SDFSKJCL(DFSKBJ03) - 01.00
                                    Columns 00001 00072
000066 //SYSIN
           א ממ
000067 CONTROL CNTL STOPAFT=EOF
000069 * INPUT LOG DATA SET NAME(S):
000070 * IMSDATA, IM9A, SLDSP, D04322, T0927541, V00
000072 *
*
000074 * ORS TRACE FORMATTING
000076 *
000077 OPTION PRINT O=5, FLDTYP=X, V=67FA, L=2, C=M
000078 OPTION PRINT O=23, FLDTYP=C, V=OR, L=2, C=E, E=DFSERA60
000079 *
000081 * DL/1 TRACE FORMATTING
                                  *
Command ===>
                                      Scroll ===> PAGE
F1=Help F2=Split F3=Exit F5=Rfind F6=Rchange
                                        F7=Up
F8=Down F9=Swap F10=Left F11=Right F12=Cancel
```

TBM

IMS Snap/Pseudo Abend Record Formatting

- Bring up the IMS Snap/Pseudo-Abend Record Formatting panel
 - From the Log Formatting Selections panel, select Task 5





IMS Snap/Pseudo Abend Record Formatting Output

- Sample output for Deadlock Trace Information Summary
 - Log formatting type=K and DB Deadlock = Y

* DEADLOCK TRACE INFORMATION	SUMMA	ARY
* TRACE HEADER LENGTH : 48		
* DEADLOCK ENTRY LENGTH : 428	l i i	
* TIME STAMP ON FIRST TRACE RECORD	: 20	***************************************
* TIME STAMP ON FIRST PROCESSED RECORD	: 20	* 1 IMS TOOL / DFSKTDL0 DATE: 2004/161 TIME: 14:56
* TIME STAMP ON LAST PROCESSED TRACE RECORD	: 20	***************************************
* LSN ON FIRST TRACE RECORD :	582	*
* LSN ON FIRST PROCESSED RECORD :	582	* DEADLOCKS BY HOUR
* LSN ON LAST PROCESSED TRACE RECORD :	7051	* START TIME STOP TIME COUNT
* TOTAL # OF NON COMMENT CNTLCRDS RECORDS READ	:	*
* REQUESTED # OF LOG RECORDS TO BE SKIPPED	:	* 2003190/210234 - 2003190/222241 144
* TOTAL # OF LOG RECORDS SKIPPED	:	* 2003190/222241 - 2003190/230053 12
*		* 2003190/230053 - 2003191/003002 6
* TOTAL # OF LOG RECORDS READ	:	*
* TOTAL # OF 67FF TRACE RECORDS READ	:	*
* TOTAL # OF 67FF TRACE RECORDS EVALUATED	:	
* TOTAL # OF RECORDS WRITTEN TO DETAIL REPORT	:	* 1 IMS TOOL / DFSKTDL0 DATE: 2004/161 TIME: 14:56
* TOTAL # OF RECORDS WRITTEN TO VICTIM REPORT	:	
* TOTAL # OF DEADLOCK RECORDS EVALUATED	:	DEADLOCKS BI DBMS
* TOTAL # OF COMPLETE DEADLOCK RECORDS	:	* DBMS COUNT
* TOTAL # OF MULTI-RECORD DEADLOCK RECORDS	:	* DDOD 7459
* TOTAL # OF ADDITIONAL PARTS FOR DEADLOCK RECS	. •	^ PROD /430
* TOTAL # OF DEADLOCKS EXCEEDING RECORD CAPACITY		* 1 TMC TOOT / DECEMENTO DATE: 2004/161 TIME: 14.56
TOTAL # OF RECORDS EXCEEDING BUCKET SIZE		~ 1 IMS 100L / DESKIDLO DATE: 2004/101 11ME: 14:56
A TOTAL # OF DEADLOCK SITUATIONS ANALYZED	•	* DFADIOCKS BY STATE
* LARGESI CICLE COUNT ENCOUNTERED		* STATE COONT
* TOTAI NIIMEED OE DENDIOCKS	:	* 00 1650
* TOTAL NUMBER OF DEVICE ENTRIES MITTO	:	* 01 170
TOTAL MOMDER OF DEADLOCK ENTRIES WITH DETRIES	<u> </u>	* 03 262
		* 04 5376
		5376


IMS Snap/Pseudo Abend Record Formatting Output

- Sample output for Deadlock Trace Analysis Victim report
 - Log formatting type=K and DB Deadlock = Y

IMS TOOL	/ DFSKTDL0		DA	TE: 2004/161	TIME:	14:56 PAGE	:	1		
1ST-LSN	TIME	CNT	TRAN/J	OB DBMS-PST	TRAN/J(DB DBMS-PST	TRAN/JOB	DBM		
5820C9F2	21:02:34.3	2	TRAN1	(PROD- 55)	S00	(PROD- 71)V				
5831D2F6	21:04:55.3	2	TRAN2	(PROD-139)	JOB1	(PROD-228)V				
58332504	21:05:06.0	2	TRAN1	(PROD-100)	TRAN2	(PROD- 54)V				
583394BD	21:05:09.9	3	TRAN1	(PROD-139)	TRAN3	(PROD-100)	JOB1	(PROD-4)V		
5834DE7E	21:05:21.4	2	TRAN3	(PROD-100)	TRAN5	(PROD- 54)V				
5834F6E8	21:05:22.3	2	TRAN3	(PROD-100)	TRAN5	(PROD- 54)V				
583665F2	21:05:36.2	2	TRAN1	(PROD-100)	TRAN9	(PROD-139)V				



IMS Snap/Pseudo Abend Record Formatting Output

- Sample output for Deadlock Trace Analysis Detail report
 - Log formatting type=K and DB Deadlock = Y

IMS TOOL /	DFSKTDL0	DA	TE: 2004/	179	TIME	: 13:08	PAGE:	1						
# 1ST-LSN	VIC DMB-NAME	PCBDBD	RBA/RBN	DMB# D	CB# '	TYPE I	IMS-NAME	TRAN/JOB	PSB-NAME	PST 1	RGN (CALL	LOCKFUNC	STATE
			· (LOCKNA	ME)-				·					
** 00:28:1	9.1 ********	* * * * * * * * * *	******	*****	****	******	* * * * * * * * *	* * * * * * * * * *	* * *					
1 D9FD98A	1 DBDDAP	DBDDAP	00AAB008	84BF	01	400002	IMS1	ARS1047	PSB142CP	42	DBT	GET	GRIDX	06-P
KEY FOR 1	RESOURCE IS NO	OT AVAILAE	BLE											
2		סגמממ	06707004	0750	01	100002	TMC1	ADC1047		246	שמח	CET	CDIDV	06-D
Z KEV FOR	RESOURCE IS I	UBUUAP NOT AVATIA	BLE	0309	ΟI	400002	TMPT	ARS1047	FSDIZCF	240	DPI	GEI	GRIDA	00-F
** 00:28:2	1.1 ********	* * * * * * * * * *	*****	*****	****	* * * * * * * *	* * * * * * * *	* * * * * * * * * *	***					
1 D9FD98A	1 DBDDAP	DBDDAP	00AAB008	84BF	01	400002	IMS1	ARS1047	PSB142CP	42	DBT	GET	GRIDX	06-P
KEY FOR	RESOURCE IS N	NOT AVAILA	BLE											
2	V DBDDAP	DBDDAP	06A0A004	83D9	01	400002	IMS1	ARS1047	PSB12CP	246	DBT	GET	GRIDX	06-P
KEY FOR	RESOURCE IS 1	NOT AVAILA	BLE											
** 00.2F.1	○ 1 ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↓ ↓ ↓ ↓	ﻪ	· ↓ ↓ ↓ ↓ ↓ ↓ ↓	ﯩﻠﻪ ﺑﻪ ﺑﻪ ﺑﻪ ﺑﻪ ﺧﻪ	، باد باد باد باد	* * * * * * * * *		ﻮﻟﻮ ﺧﻪ ﺧﻪ ﺧﻪ ﺧﻪ ﺧﻪ ﺧﻪ ﺧﻪ ﺧﻪ ﺧﻪ	- به به به به					
^^ UU:35:1			00227000		01	400002	тме1	× × × × × × × × × × ×		24	שממ	тарт	CDIDY	
I DAISE/I	C DBDDAP	DBDDAP	003E700C	OCBA	ΟI	400002	IMSI	ARSIU47	PSBI40CA	54	DBI	ISKI	GRIDA	00-2
2 DA15F71	D DRDDAP	DRDDAP	003E700C	8CBA	01	400002	TMS1	ARS2047	PSB246CX	37	DBT	TSRT	GRIDX	06-P
KEY: C7	C9F5F9	2220111	000270000	0 0 DII	0 ±	100002		11102017	102210011	0,	201	- 01(1	01.1.071	
3	V DBDDAP	DBDDAP	03674004	84BF	01	400002	IMS1	ARS1047	PSB146CX	71	DBT	GET	GRIDX	06-P
KEY: C7	D3D340F3F1F7F4	4F8F040404	0											



TBM

IMS Log Data Set Summary

- Bring up the IMS Log Data Set Summary panel
 - From the main panel, select Task 3

```
IMS K.B.L.A. - Log Data Set Summary
Command ===>
Fill in the following fields and press ENTER .
Input IMS Log DSN IMSDATA.IM9A.SLDSP.D04322.T0927541.V00
                                                                Cataloged? Y
IMS Log Version . . . 9
Output DSN Keyword . . IM9A Output DSN: COUGHTA.Keyword.KBLA.R
(Optional) Processing Criteria
  Create/Process Subset of Log . (Y/N) A selection panel will be displayed
  Log DSNs Extracted From RECON. N (Y/N)
                                                             (Y/N)
  PDS Member Containing Logs . .
                                             Check LSN Seq
F1=HELP
             F2=SPLIT
                          F3=END
                                       F4=RETURN
                                                   F5=RFIND
                                                                F6=RCHANGE
F7=UP
             F8=DOWN
                          F9=SWAP
                                      F10=LEFT
                                                  F11=RIGHT
                                                               F12=RETRIEVE
```

IMS Log Data Set Summary

Optional filtering panel:

```
IMS K.B.L.A. - Log Data Set Analysis
Command ===>
Fill out the following variables and press ENTER .
(Optional) Select Search Criteria
 Start Date (UTC) . . . . . .
                                       (Julian Date eq: 2002190)
 Start Time (UTC).....
                                       (hhmmss eq: 133000)
                                       (Julian Date eq: 2002190)
 Stop Date (UTC) . . . . . .
 Stop Time (UTC).....
                                       (hhmmss eq: 133500)
 (Hex: eq: 001A3000)
                                      (Hex: eq: 001A3000)
 Stop LSN . . . . . . . . . . . .
 Only Process records in Recovery Token Range
                                              (Y/N)
Recovery Token. . .
 Number of records to skip . . .
                                  Mutually exclusive with Start parms
Number of records to process. .
                                       Mutually exclusive with Stop parms
 /LOG Command Start String
                                        Stop String
 Create Subset of log (Y/N)
                                    DSN: COUGHTA.Keyword.KBLA.L.*
                    F3=END
                                                F5=RFIND
 F1=HELP
        F2=SPLTT
                                    F4=RETURN
                                                            F6=RCHANGE
 F7=UP
                        F9=SWAP
                                                F11=RIGHT
                                                           F12=RETRIEVE
            F8=DOWN
                                    F10=LEFT
```

IMS Log Data Set Summary ...

Sample output

1.11

IMS Log Data Set Summary ...

Sample output ...

SDSF OUTPUT DISPLAY TNGUYENA J0052642 DSID	109 LINE 55 COLUMNS 02- 81
COMMAND INPUT ===>	SCROLL ===> PAGE
* LOG RECORD OCCURRENCES STATISTICS	
*	
* OCCURRENCES OF RECORD TYPE 01: 7925	INPUT MESSAGE QUEUED
* OCCURRENCES OF RECORD TYPE 03: 18147	OUTPUT MESSAGE QUEUED
* OCCURRENCES OF RECORD TYPE 07: 2981	APPLICATION PGM TERMINATED
* OCCURRENCES OF RECORD TYPE 08: 2981	APPLICATION PGM SCHEDULED
* OCCURRENCES OF RECORD TYPE 11: 1167	CONVERSATIONAL PGM STARTED
* OCCURRENCES OF RECORD TYPE 12: 1157	CONVERSATIONAL PGM TERMINATED
* OCCURRENCES OF RECORD TYPE 27: 334	DATA BASE WAS EXTENDED
* OCCURRENCES OF SUBCODE 2701: 167	DATA BASE WAS EXTENDED-PHASE 1
* OCCURRENCES OF SUBCODE 2702: 167	DATA BASE WAS EXTENDED-PHASE 2
* OCCURRENCES OF RECORD TYPE 28: 1780	INPUT SEQNO UPDATED BY RESTART
* OCCURRENCES OF RECORD TYPE 31: 27217	GET UNIQUE (GU) ISSUED FOR MSG
* OCCURRENCES OF RECORD TYPE 33: 26064	QMGR RELEASED A DDRN
* OCCURRENCES OF RECORD TYPE 34: 22	THIS MESSAGE WAS CANCELLED
* OCCURRENCES OF RECORD TYPE 35: 26050	MSG WAS ENQUEUED/RE-ENQUEUED
* OCCURRENCES OF RECORD TYPE 36: 18427	THIS MESSAGE WAS DEQ/SAVED/DEL
* OCCURRENCES OF RECORD TYPE 37: 22303	SYNCPOINT PROCESSOR LOG RECORD
* OCCURRENCES OF SUBCODE 37QL: 11721	QLOGXFER

. .

IMS Log Data Set Summary ...

Sample output ...

SDSF OUTPUT DISPLAY TNGUYENA J0052642 DSID	109 LINE 177 COLUMNS 02- 81
COMMAND INPUT ===>	SCROLL ===> PAGE
* DATABASE LOG RECORDS STATISTICS (FROM X'50'	AND '59' RECORDS)
*	
* DATABASE ACCTA : # OF DB UPDATE RECORDS	5319
* DATABASE BOCTR : # OF DB UPDATE RECORDS	8341
* DATABASE CMF : # OF DB UPDATE RECORDS	17526
* DATABASE CUALTA1 : # OF DB UPDATE RECORDS	395
* DATABASE CUALTA2 : # OF DB UPDATE RECORDS	364
* DATABASE CUALTA3 : # OF DB UPDATE RECORDS	312
* DATABASE CUALTA4 : # OF DB UPDATE RECORDS	68
* DATABASE CUALTB1 : # OF DB UPDATE RECORDS	419
* DATABASE CUALTB2 : # OF DB UPDATE RECORDS	338
* DATABASE CUALTB3 : # OF DB UPDATE RECORDS	353
* DATABASE CUALTB4 : # OF DB UPDATE RECORDS	200
* DATABASE CUALTC1 : # OF DB UPDATE RECORDS	352
* DATABASE CUALTC2 : # OF DB UPDATE RECORDS	467
* DATABASE CUALTC3 : # OF DB UPDATE RECORDS	507
* DATABASE CUALTC4 : # OF DB UPDATE RECORDS	86
* DATABASE CUALTD1 : # OF DB UPDATE RECORDS	352
* DATABASE CUALTD2 : # OF DB UPDATE RECORDS	348

IMS Log Data Set Summary ...

Sample output ...

SDSF OUTPUT DISPLAY TNGUYENA J005264	2 DSID 109 LINE	CHARS 'PROGRAM' FOUND								
COMMAND INPUT ===>		SCROLL ===> PAGE								
* PROGRAM LOG RECORDS STATISTICS (FRO	PROGRAM LOG RECORDS STATISTICS (FROM X'07' RECORDS)									
*										
* PROGRAM PROGDE1A TRANSACTION: DE1A	OCCURRED:	41								
* PROGRAM PROGDE1B TRANSACTION: DE1B	OCCURRED:	41								
* PROGRAM PROGDE1C TRANSACTION: DE1C	OCCURRED:	44								
* PROGRAM PROGDE1D TRANSACTION: DE1D	OCCURRED:	34								
* PROGRAM PROGDE1E TRANSACTION: DE1E	OCCURRED:	46								
* PROGRAM PROGDE2A TRANSACTION: DE2A	OCCURRED:	32								
* PROGRAM PROGDE2B TRANSACTION: DE2B	OCCURRED:	31								
* PROGRAM PROGDE2C TRANSACTION: DE2C	OCCURRED:	31								
* PROGRAM PROGDE2D TRANSACTION: DE2D	OCCURRED:	28								
* PROGRAM PROGDE2E TRANSACTION: DE2E	OCCURRED:	36								
* PROGRAM PROGHR1A TRANSACTION: HR1A	OCCURRED:	10								
* PROGRAM PROGHR1B TRANSACTION: HR1B	OCCURRED:	69								
* PROGRAM PROGHR1C TRANSACTION: HR1C	OCCURRED:	62								
* PROGRAM PROGHR1D TRANSACTION: HR1D	OCCURRED:	88								
* PROGRAM PROGHR1E TRANSACTION: HR1E	OCCURRED:	7								
* PROGRAM PROGHR2A TRANSACTION: HR2A	OCCURRED:	9								
* PROGRAM PROGHR2B TRANSACTION: HR2B	OCCURRED:	67								



IMS Knowledge Based Analysis

- From the main panel, select Task 4 to bring up the IMS Knowledge Based Analysis panel
 - Choose Subtask 1 to bring up the Log Analysis panel





IMS Log Data Set Analysis

- In the Log Data Set Analysis panel, define which resource you want to analyze
 - For this example, analyze 'QPPDB2' database records

```
IMS K.B.L.A. - Log Data Set Analysis
Command ===>
Fill in the following fields and press ENTER.
Input IMS Log DSN IMSDATA.IM9A.SLDSP.D04352.T1236092.V02
                                                                Cataloged? Y
IMS Log Version . . . 9
                            Output DSN: COUGHTA.Keyword.KBLA.R.*
Output DSN Keyword. . IM9A
Log Formatting Type . K (B,S,K) Output DSN: COUGHTA.Keyword.KBLA.S.*
(Optional) Processing Criteria
Create/Process Subset of log (Y/N) A selection panel will be displayed
PGM
               TRAN
                               DBD qppdb2
                                             AREA
NODE
              LTERM
                               USER
                                             RBA
Recovery Token. . .
                                                      DRRN
UOW
Scan
Create Dynamic Search Keys (Y/N) Output DSN: COUGHTA.Keyword.KBLA.D.*
Log DSNs were extracted from RECON. N
PDS member containing logs. . . .
                                               Check LSN Seq
                                                                (Y/N)
```



IMS Log Data Set Analysis ...

- Further qualify the criteria for analysis
 - Example, specify that only 1000 records are to be analyzed

IMS K.B.L.A. - Log Data Set Analysis

(Julian Date eq: 2002190)

(Julian Date eq: 2002190)

(hhmmss eq: 133000)

(hhmmss eq: 133500)

Start LSN......(Hex: eg: 001A3000)Stop LSN......(Hex: eg: 001A3000)Only Process records in Recovery Token Range(Y/N)Recovery Token....Number of records to skip...Number of records to process.1000Mutually exclusive with Start parmsNumber of records to process.1000Mutually exclusive with Stop parms/LOG Command Start StringStop StringCreate Subset of log(Y/N)Copy images of filter-selected records(Y/N)

TBM

IMS Log Data Set Analysis ...

Sample output

5	SDSF OUTPUT DISPLAY COUGHTAA JOB05851 DSID 10)9	LINE 17	COLUMNS 01- 80
CC	COMMAND INPUT ===>			SCROLL ===> PAGE
*	LOG INFORMATION SUMMARY FOR IMSID: IM9A *			
*	FIRST LSN: 00000001 LAST LSN: 00000584			
*	FIRST SELECTED LSN: 0000001			
*				
*	FIRST LOG RECORD STCK (UTC): 2004352 1236294		(LOCAL):	2004352 1236294
*	LAST LOG RECORD STCK (UTC): 2005029 0223597		(LOCAL):	2005029 0223597
*	FIRST SELECTED LOG STCK (UTC): 2004352 1236294		(LOCAL):	2004352 1236294
*	DIFFERENCE BETWEEN UTC AND LOCAL TIME (HHMM): +	-00	000	
*	ELAPSED TIME ON SELECTED LOG(S):			041 13:47:30.3
*				
*				
*	TOTAL # OF LOG RECORDS READ AND PROCESSED :		1412	
*				
*	# OF LOG RECORDS WRITTEN TO SYSPRINT FILE :		20	
*				
*	IMS START RECORD DETECTED (X'0601') :	2	YES	
*	TRACE LOG RECORDS DETECTED (X'6701') :	1	NO	
*				
	SYS. DIAGNOSTIC RECS. DETECTED (X'6/DU') :	_	YES	
*	TRACE TABLE LOG RECORDS DETECTED (X'67FA') :	1	NO	
*	SNAP DUMP LOG RECORDS DETECTED (X'67FD') :	1	NO	
*	PSEUDO ABEND RECORDS DETECTED (X'67FF') :	1	NO	
*	# OF PGM ABENDS (X'67FF' PSEUDO ABEND RECORDS):		0	
*	# OF DEADLOCKS (X'67FF' DEADLOCK RECORDS):		0	

IMS Log Data Set Analysis ...

Sample output ...

*	SYSTEM CHKPT LOG RECORDS DETECTED (X'4001') : YES
*	SYSTEM CONFIGURATION STATS AVAILABLE (X'45FF'): YES
*	STATISTICS BEGIN RECORD AVAILABLE (X'4500'): YES
*	LOGGER STATISTICS RECORD AVAILABLE (X'4507'): YES
*	***************************************
*	IMS SYSTEM CONFIGURATION
*	REGION TYPE: ONLINE DB/DC
*	IMS LEVEL : 910
*	***************************************
*	IMS TOOL / DFSKSUM DATE: 2005/046 TIME: 01:12 PAGE:
*	***************************************
*	
*	APPC=N SPECIFIED
*	ETO=Y SPECIFIED
*	HSB=N SPECIFIED
,	* LSO=S SPECIFIED
,	* SYSTEM IS NOT XRF CAPABLE
,	* SYSTEM IS NOT RSR CAPABLE

IMS Log Data Set Analysis ...

Sample output ...

* LOG RECORD OCCURRENCES STATISTICS		
*		
* OCCURRENCES OF RECORD TYPE 01:	8	INPUT MESSAGE QUEUED
* OCCURRENCES OF RECORD TYPE 02:	1	IMS COMMAND ENTERED
* OCCURRENCES OF RECORD TYPE 03:	49	OUTPUT MESSAGE QUEUED
* OCCURRENCES OF RECORD TYPE 04:	2	TRACKING SITE INFORMATION
* OCCURRENCES OF SUBCODE 0403:	1	RSR: SUBSYS RECOVERY COMPLETE
* OCCURRENCES OF SUBCODE 0409:	1	LOG BUFFERS PURGED
* OCCURRENCES OF RECORD TYPE 06:	2	ACCOUNTING RECORD
* OCCURRENCES OF RECORD TYPE 07:	5	APPLICATION PGM TERMINATED
* OCCURRENCES OF RECORD TYPE 08:	5	APPLICATION PGM SCHEDULED
* OCCURRENCES OF RECORD TYPE 20:	15	DATABASE WAS OPENED
* OCCURRENCES OF RECORD TYPE 21:	15	DATABASE WAS CLOSED
* OCCURRENCES OF RECORD TYPE 27:	12	DATA BASE WAS EXTENDED
* OCCURRENCES OF SUBCODE 2701:	9	DATA BASE WAS EXTENDED-PHASE 1
* OCCURRENCES OF SUBCODE 2702:	3	DATA BASE WAS EXTENDED-PHASE 2
* OCCURRENCES OF RECORD TYPE 29:	24	ON-LINE REORGANIZATION RECORD
* OCCURRENCES OF SUBCODE 2901:	3	OLR: PARTITION RESPONSE DATA
* OCCURRENCES OF SUBCODE 2909:	1	OLR: OM COMMAND RESPONSE SENT

IMS Log Data Set Analysis ...

Sample output ... Records associated with the request

Display Filter View Print Options	s Help
SDSF OUTPUT DISPLAY COUGHTAA JOB05851	DSID 111 LINE 15 COLUMNS 01- 80
COMMAND INPUT ===>	SCROLL ===> PAGE
PST NO: 0000 DBD NAM	ME: QPPDB2 PSB NAME: 0QPPDB23
PARTITION NAME: QPPDB23	RSE NAME: IM9A
EFFECTIVE RATE VALUE: 050	OWNERSHIP: INIT CMD, DEL OPT
DATE/TIME: 2005-01-19 22:50:36	592440 UTC LOG SEQ NO: 0000028
-2930 RECORD - OLR: OUTPUT DATA SET 1	INFO
PST NO: 0003 DBD NAM	ME: QPPDB2 PSB NAME: 0QPPDB22
PARTITION NAME: QPPDB22	RSE NAME: IM9A
USN: 0000000	USID: 0000004
OUTPUT DATA SETS: M-V,Y	DB ORG: PHIDAM Dataset Entries: 003
VSAM DATA SET INFO FOR DDNA	AME: QPPDB22M (NON-KSDS)
CI SIZE: 00002048 REC SIZ	XE: 00002041 SHARE OPTIONS: (3 3)
CI FREESPACE PERCENT: 000	CA FREESPACE PERCENT: 000
PRI/SEC ALLOC: 00000010/000	000005 (MB) REQUESTED VOLUMES: 01

IMS Log Data Set Analysis ...

Sample output ... Logical Record Selection Flow Report Example

1	IMS	TOOL / DI	FSKSUM LOG RI	ECORD SELECTION	I FLOW	DATE	: 2005/089	TIME: 11	:57
0LC	SC	LSN	REASON		PST	HEXPST	DATA		
29		00000276	DBD MATCHED	CNTLCRDS	0	0000	QPPDB2		
29		0000027E	DBD MATCHED	CNTLCRDS	0	0000	QPPDB2		
29		00000286	DBD MATCHED	CNTLCRDS	0	0000	QPPDB2		
29		000002A7	DBD MATCHED	CNTLCRDS	3	0003	QPPDB2		
29		000002A7	PSB FOR 29	9	3	0003	0QPPDB22		
29		000002A7	PGM FOR 29	9	3	0003	0QPPDB22		
50	50	000002A8	PST MATCH		3	0003	3		
50	50	000002A8	PSB MATCH		3	0003	0QPPDB22		
50	50	000002A8	PGM MATCH		3	0003	0QPPDB22		
50	50	000002A8	TOKEN FOR	50	3	0003	C9D4F9C1404	040400000	0004
50	50	000002A8	PGM FOR 50	0	3	0003	0QPPDB22		
50	50	000002A9	TOKEN MATCH		3	0003	C9D4F9C1404	040400000	0004
50	50	000002A9	PST MATCH		3	0003	3		
50	50	000002A9	PSB MATCH		3	0003	0QPPDB22		
50	50	000002A9	PGM MATCH		3	0003	0QPPDB22		
50	50	000002A9	PGM FOR 50	0	3	0003	0QPPDB22		



MSC Link Performance Analysis

- From the main panel, select Task 4 to bring up the IMS Knowledge Based Analysis panel
 - Choose Subtask 2 to bring up the MSC Link Performance Analysis panel





MSC Link Performance Analysis

Sample Report Output

This report can help isolate performance problems with MSC links

CONTROL	CNTL STOPAFT=EOF					
****	*****	*****				
* IMS-V9 INPUT LOG	DATA SET NAME(S):	*				
* IMSV9.TEST.LOG						
*****	*****	*****				
*		*				
* MSC TRACE SELECTI	ON	*				
		*				
*****	*****	****				
OPTION PRINT E=DF	SKMSC0					
*						
	RECV DATA TO ACK (MS)		SEND DATA TO ACK (MS)	SEND CHECK WRITE	(MS)	TIME
RECV FOR ID = WB	6					11:38:29.652
SEND FOR $ID = WB$			13		23	11:38:29.693
RECV FOR ID = WB	8					11:38:29.775
SEND FOR ID = WB			6		21	11:38:29.804
SEND FOR ID = WB			14		28	11:38:29.849
RECV FOR ID = WB	28					11:38:29.883
RECV FOR ID = WB	13					11:38:29.924
SEND FOR ID = WB			26		21	11:38:29.985
RECV FOR ID = WB	14					11:38:30.026
RECV FOR $ID = WB$	5					11:38:30.089
SEND FOR ID = WB			13		21	11:38:30.136
RECV FOR ID = WB	24					11:38:30.162
RECV FOR ID = WB	8					11:38:30.219
LINK PARTNER NAME	RECV DATA TO ACK (MS)	# RECV SAMPLES	SEND DATA TO ACK (MS)	SEND CHECK WRITE	(MS) #	SEND SAMPLES
WB	15	1,041	23		22	667



Statistics Log Record Analysis

- From the main panel, select Task 4 to bring up the IMS Knowledge Based Analysis panel
 - Choose Subtask 3 to bring up the Statistics Log Record Analysis panel



TBM

Trace Entry Analysis

- From the main panel, select Task 4 to bring up the IMS Knowledge Based Analysis panel
 - Choose Subtask 4 to bring up the Trace Entry Analysis panel



TBM

Trace Entry Analysis

- Choose Subtask 4 to bring up the Trace Entry Analysis panel
 - Select one of the two options

Command ===>	IMS K.B.	L.A Trad	ce Entry Analys	sis					
				TIME DATE JULIAN	13:53:13 2005/03/29 2005.088				
Select one of	the followin	g subtasks	and press ENTE	ER.					
Subtasks .	Subtasks 1. OTMA/RRS Wait Trace Analysis 2. Trace Entry Filtering								
F1=HELP F7=UP	F2=SPLIT F8=DOWN	F3=END F9=SWAP	F4=RETURN F10=LEFT	F5=RFIND F11=RIGHT	F6=RCHANGE F12=RETRIEVE				

OTMA/RRS Wait Trace Entry Filtering

Choose Subtask 1 to bring up the OTMA/RRS Wait Trace panel





Trace Entry Filtering Choose Subtask 2 to bring up the Trace Entry Filtering panel == K.B.L.A. Trace Entry Filtering == COMMAND ===> Input IMS Log DSN Cataloged? Y IMS Log Version . . . 9 Trace Table Ids: Search Criteria: 1: W* D8D7D7C4 Use this to search individual 2: trace table entries for certain selection criteria 3: 4: 5: 6: 7: Optional Fields For Trace Records Filtering Start Date/Time (UTC) - (e.g YYYYDDD-HHMMSS) Stop Date/Time (UTC) (e.g YYYYDDD-HHMMSS) Records to Process. . . Records to Skip. . . . Scan Only . . Merge Extract Log Record. . . Y



IRLM Lock Trace Analysis

- From the main panel, select Task 4 to bring up the IMS Knowledge Based Analysis panel
 - Choose Subtask 5 to bring up the IRLM Lock Trace Analysis panel



IRLM Lock Trace Analysis

Sample summary report output

ſ	:	Suspended IR	LM Lock	Requests S	ummary Repo	rt - DMB Na	ame Order Page	001
Trace Date :	= 11/0	04/2003 Tra	ce Start	Time = 17	:18:38 Tra	ce End Time	e = 17:20:26	
Trace Elaps	ed Tin	ne (secs) =	107					
Trace Input	DSN =	= IDOC.D0311(04.V9FPA	TH.LOCKTRA	.IM10LP01			
Database	DS	Lock Req	Wait	Not Int	Total	Average	Maximum	
Name	Id	Count	Count	Count	Time	Time	Time	
CUSTDB	01	21	0	0	0.000	0.000	0.00	
CUSTDB	02	19	0	0	0.000	0.000	0.00	
CUSTDB	03	26	0	0	0.000	0.000	0.00	
CUSTDB	04	49	0	0	0.000	0.000	0.00	
CUSTDB	05	18	0	0	0.000	0.000	0.00	
Suspended IR	LM Loc	ck Requests S	Summary H	Report - W	ait Time Or	der Page 00)1	
Trace Date :	= 11/0	04/2003 Tra	ce Start	Time = 17	:18:38 Tra	ce End Time	e = 17:20:26	
Trace Elaps	ed Tin	ne (secs) =	107					
Trace Input	DSN =	= IDOC.D0311	04.V9FPA	TH.LOCKTRA	.IM10LP01			
Database	DS	Lock Req	Wait	Not Int	Total	Average	Maximum	
Name	Id	Count	Count	Count	Time	Time	Time	
FP AREA	00	83	1	1	2.192	2.192	2.19	
CUSTDB	01	21	0	0	0.000	0.000	0.00	
CUSTDB	02	19	0	0	0.000	0.000	0.00	
CUSTDB	03	26	0	0	0.000	0.000	0.00	
CUSTDB	04	49	0	0	0.000	0.000	0.00	



IRLM Lock Trace Analysis

Sample detail report output

				Susper	nded IRL	I Loc	k Req	quests	s Rep	ort - Re	q Com	ıp Order						Page	0001	
1	Irace Dat	:e =	11/04	/2003 D	SN = IDOO	C.D03	1104	.V9FP	ATH.L	OCKTRA.I	M10LE	201								
	Lock Requ	lest	Lock	Request	Wait	t	- PSI	ГLo	ock		Resou	irce	:	Fla	gIR	LM		Call		Trace
	Start Tim	le	End	Time	Elapsed	Туре	Num	Туре	Lvl	DB	DS F	RBA/HASH	S		RCFB	FRAC	Туре	Num	Time	Seq#
	17:18:41.	262	17:18	:43.455	2.1	92 L	163	3 FPAI	r 6	FP AREA	. C2	F8E2E3C3	J	KF	0000	2080)			C7CD
	17:18:50.	413	17:18	:50.413	0.00	04 L	134	4 FPC	I 8	WAREDB	04	00000000	F	К	0440	2080)			3A1C
	17:20:07.	202	17:20	:07.202	0.00	04 г	134	4 FPC	I 8	WAREDB	0C	00000F0	F	К	0440	2080)			9C2A



DBCTL Transaction Analysis

- From the main panel, choose Task 4 to bring up the IMS Knowledge Based Analysis panel
 - Choose Subtask 6 to bring up the DBCTL Transaction Analysis panel



DBCTL Transaction Analysis ...

- Select one field for Sort specifications
 - A=Ascending, D=Descending, N=Not to be used for the sort
 - In this example, the sort selection is "Descending" DL/I I/O time

== K.B.L.A. DBCT	L Transaction Analysis ==
COMMAND ===>	
Input IMS Log DSN IDOC.IMSV9.IMS1.DFSOLP02	.D03260 Cataloged? Y
IMS Log Version 9	
Transaction Summary Report Sorted by:	
DLI I/O Time \ldots \ldots \ldots \ldots $\frac{d}{d}$	(A/D/N)
NBA Buffers Used N	(A/D/N)
PSBNAME N	(A/D/N)
Scheduling Elapsed Time N	(A/D/N)
SYNC Failure N	(A/D/N)
Time Waiting for DEDB BUFFER . N	(A/D/N)
Time Waiting for INTENT N	(A/D/N)
Time Waiting for POOL SPACE N	(A/D/N)
Time Waiting for LOCKS N	(A/D/N)
Time Waiting for CI LOCK N	(A/D/N)
Time Waiting for UOW LOCK N	(A/D/N)
Output DSN Keyword ALI	SON _ The Output DSN will be:
	TNGUYEN.keyword.KBLA.*
Log DSNs were extracted from RECON	
PDS member containing logs	

TBM

DBCTL Transaction Analysis ...

- The help panel documents and explains each field
 - Combines information from DBFULTA0 and DFSILTA0

K.B.L.A. - Panel HELP - DBCTL Transaction Analysis

This utility sort and combines the DBFULTA0 and DFSILTA0 functions. It should be used primarily for a DBCTL environments since it relies on both a x'07' and a x'5937/5938' record to gather the statistics. Usually only in DBCTL environments will we have both of these records on a per transaction basis (unless a TM account used a PROCLIM of 1).

These are the fields presented by the utility in the report:

SCHEL - ELAPSED TIME IN SCHEDULING INT - TIME WAITING FOR INTENT DLI - TOTAL FULL FUNCTION CALLS IOT - DLI I/O TIME DEC - TOTAL DEDB CALLS DEG - DEDB GET CALLS OVF - OVERFLOW BUFFERS USED BWT - DEDB BUFFER WAITS UPD - BUFFERS SENT TO OTHREAD SDP - BUFFERS USED FOR SDEP ULK - UOW LOCK WAITS VRD - VSO RADS FROM DATA SPAC VWR - UPDATES TO VSO DATA SPACE S/F - SYNC FAILURE CODE

Continue...

DBCTL Transaction Analysis ...

Sample output

CONTROL CNTL H=EOF	
* * * * * * * * * * * * * * * * * * *	
* IMS-V9 INPUT LOG DATA SET NAME(S): *	
* IMSV9.TEST.LOG *	
* * * * * * * * * * * * * * * * * * *	
* DBCTL TRANSACTION ANALYSIS	
* * * * * * * * * * * * * * * * * * *	
OPTION PRINT E=DFSKDBC0	
COLUMN HEADING EXPLANATIONS:	
SCHEL - ELAPSED TIME IN SCHEDULING INT - TIME WAITING FOR INTENT	PWT - TIME WAITING FOR POOL SPACE
DLI - TOTAL FULL FUNCTION CALLS IOT - DLI I/O TIME	LWT - TIME WAITING FOR LOCKS
DEC - TOTAL DEDB CALLS DEG - DEDB GET CALLS	DEP - DEDB PUT CALLS
OVF - OVERFLOW BUFFERS USED BWT - DEDB BUFFER WAITS	NBA - NBA BUFFERS USED
UPD - BUFFERS SENT TO OTHREAD SDP - BUFFERS USED FOR SDEP	CLK - CI LOCK WAITS
ULK - UOW LOCK WAITS VRD - VSO RADS FROM DATA SPACE	VDR - VSO READS FROM DASD
VWR - UPDATES TO VSO DATA SPACE S/F - SYNC FAILURE CODE - SEE U	TILITIES REF MANUAL FOR EXPLANATION
PSBNAME SUBSYS R RGN ELAP SCHED_TIME SCHEL INT PWT DLI IOT LW	T DEC DEG DEP OVF BWT NBA UPD SDP CLK ULK VRD VDR VWR S
ID T NBR SS.T HH:MM:SS.T MS MS MS # MS M	IS # # # # # # # # # # # # # # F
TXSQL6C SYS6 2 1.3 18:18:21.9 0	0 0 0 0 0 0 0 0 0 0 0 0
TXSQL6C SYS6 2 .5 18:18:23.5 0	0 0 0 0 0 0 0 0 0 0 0 0
EMHPSB2 SYS6 B 1 13.5 18:18:12.6 0	0 0 0 0 0 0 0 0 0 0 0 U
TXSQL6C SYS6 2 .7 18:18:41.1 0	0 0 0 0 0 0 0 0 0 0 0 0
EMHPSB2 SYS6 B 1 16.6 18:18:27.3 0	0 0 0 0 0 0 0 0 0 0 0 0 L
DFS707I END OF FILE ON INPUT	
NUMBER OF SYNC RECORDS (5937) 3	
NUMBER OF SYNC FAILURES (5938) 4	
NUMBER OF SCHD RECORDS (08) 5	
NUMBER OF TERM RECORDS (07) 5	
DFS7081 OPTION COMPLETE	
DFS703I END OF JOB	

TBM

Log Processing Rate Analysis

- From the main panel, choose Task 4 to bring up the IMS Knowledge Based Analysis panel
 - Choose Subtask 7 to bring up the Log Processing Rate Analysis panel



IBM.

Log Processing Rate Analysis

Sample input panel

= K.B.L.A.	Log Processi	ng Rate Anal	lysis ==		
Input IMS Log	DSN IMSDATA.	IM9A.SLDSP.I	05073. T1139 37	5. v 05	Cataloged? Y
IMS Log Versic	on	9			
Selection by	log record t	ype:			
Log Types:					
Optional Field	ls				
Include brea	akdown by Sub	type (Y/N	N) Analysis	Interval	(Minutes)
Start Date/I	lime (UTC)	-	(YYYYDDD) - HHMMSS)	
Stop Date/Ti	me (UTC)	-	(YYYYDDD) - HHMMSS)	
Start LSN .			Stop LSN .		
Number of Re	cords to Ski	<u>o</u>	Number of	Records to Pa	rocess
Output DSN Key	word		M9A The	Output DSN	will be:
Log DSNs Were	Extracted Fre	om RECON. 1	I COU	GHTA.keyword	.KBLA.R.*
COMMAND ===>					
F1=HELP	F2=SPLIT	F3=END	F4=RETURN	F5=RFIND	F6=RCHANGE
F7=UP	F8=DOWN	F9=SWAP	F10=LEFT	F11=RIGHT	F12=RETRIEVE



Log Processing Rate Analysis

Sample Log Record Processing Rate Analysis Summary Report

* 1	*****	*****	******	******	******	*****				
 *	Log Rat	e Analysis	/ DFSKRSR	0 D.	ATE: 2004/	173 TIME: 10:25 PAGE: 1				
* ا	*****	*****	******	*****	******	******				
*	CNTLCRD	S: SUBTYP	E							
 *	*****	*****	******	******	******	*****				
۱ *	*****	******	******	*****	******	*****				
 *	Log Rat	e Analysis	/ DFSKRSR	0 D.	ATE: 2004/	173 TIME: 10:25 PAGE: 2				
+ ا	*****	*****	*****	*****	*****	******				
*	* INPUT LOG DATA SET NAME(S)									
 *	IMSVS.T	ESTLOG								
* ا	*****	*****	******	*****	******	*********				
* ا	*****	*****	******	*****	******	*********				
*	Log Rat	e Analysis	/ DFSKRSR	0 D	ATE: 2004/	173 TIME: 10:25 PAGE: 3				
*	*****	******	*******	******	******	*********				
*	RATE ST	ATS (00:0	7:47.9 - 0	0:47:27	.5) ELAPS	ED: 000 00:39:39.6 2379 SECS				
*	LOG	TOTAL	RECORDS	AVG.	BYTES	LOG RECORD				
*	TYPE	RECORDS	/SEC	LEN.	/SEC	DESCRIPTION				
*										
*										
*	07	148634	62	348	21742	APPLICATION PGM TERMINATED				
*	08	148638	62	112	6997	APPLICATION PGM SCHEDULED				
*	09	88	0	336	12	SEQUENTIAL BUFFERING RECORD				
*	18	3710	1	359	560	USER PGM ISSUED CHPT CALL				
*	27	5465	2	72	166	DATA BASE WAS EXTENDED				
*	2701	2733	1	84	96	DATA BASE WAS EXTENDED-PHASE 1				
*	2702	2732	1	61	70	DATA BASE WAS EXTENDED-PHASE 2				
*	37	150411	63	104	6613	SYNCPOINT PROCESSOR LOG RECORD				
*	3730	150411	63	104	6613	SYNCPOINT PROCESSOR LOG RECORD				
	38	54	0	1000	2	MSG PUT BACK ON Q. APPL ABEND				
*	40	2002	0	1000	841	TOTAL NUMBER OF CHECKPOINT REC				
*	4001	11	0	440	2	CHECKPOINT PROCESS START				

Log Processing Rate Analysis

Sample Log Record Processing Rate Analysis Summary Report

*	4006	484	0	1000	203	DMB(S) FOLLOW
*	4007	1452	0	1020	623	PSB(S) FOLLOW
*	4030	33	0	774	10	RRE(S) FOLLOW
*	4031	11	0	392	1	SIDX FOLLOW
*	4098	11	0	104	0	CHKPT INFORMATION ENDS HERE
*	41	1834	0	106	81	BATCH OR BMP ISSUED A CHKP
*	42	12	0	600	3	OLDS SWITCH/CHKPT WAS TAKEN
*	43	417365	175	24	4212	STATUS OF CURRENT OLDS D/S
*	45	297	0	529	66	BEGIN-STATISTICS RECORD
*	4500	11	0	52	0	BEGIN-STATISTICS RECORD
*	4504	55	0	144	3	DL/I BUFFER POOL STATISTICS
*	4505	11	0	120	0	VARIABLE STORAGE POOL STATS
*	4506	11	0	144	0	APPLICATION SCHEDULING STATS
*	4507	11	0	76	0	LOGGING STATISTICS
*	4508	66	0	136	3	VSAM BUFFER POOL STATISTICS
*	4509	11	0	48	0	PROGRAM ISOLATION STATISTICS
*	450A	11	0	2148	9	LATCH MANAGEMENT STATISTICS
*	450B	11	0	52	0	SELECTIVE DISPATCHER STATS
*	450C	11	0	3556	16	STORAGE POOL STATISTICS
*	450E	33	0	856	11	FIXED STORAGE POOL STATISTICS
*	450F	11	0	3248	15	DISPATCHER STATISTICS
*	4510	11	0	48	0	RCF MULTI-TCB STATISTICS
*	4521	11	0	172	0	IRLM SUBSYSTEM STATISTICS
*	4522	11	0	484	2	IRLM SYSTEM STATISTICS
*	45FF	11	0	56	0	END OF STATISTICS RECORD
*	47	183	0	1026	78	CHKPT JUST TAKEN.PST(S) LISTED
*	48	49500	20	58	1206	OLDS PADDING RECORD
*	4C	4	0	70	0	A BACKOUT FOR TOKEN WAS DONE
*	50	5887602	2474	185	458622	DB UPDATE RECORD
*	5050	5727294	2407	184	443813	RECOVERY/BACKOUT DATA
*	5052	160308	67	219	14809	PREVIOUS KSDS UPDATE FAILED

Log Processing Rate Analysis

Sample Log Record Processing Rate Analysis Summary Report

*	56	526637	221	98	21882	EXT SUBSYSTEM SUPPORT RECOVERY
*	5600	1232	0	100	51	EXT SUBSYSTEM SUPPORT RECOVERY
*	5607	150472	63	92	5819	START OF A UNIT-OF-RECOVERY
*	5610	148529	62	104	6493	PHASE 1 SYNCPOINT START
*	5611	75885	31	92	2934	PHASE 1 SYNCPOINT END
*	5612	150467	63	104	6577	PHASE 2 SYNCPOINT END
*	5616	52	0	256	5	START OF PROTECTED UOW
+ ا	******	*****	*****	*****	******	*******
*	Log Rat	e Analysis	/ DFSKRSR0	D	ATE: 2004/	173 TIME: 10:25 PAGE: 4
*	******	*****	******	*****	*****	******
*						
*	RATE ST	ATS (00:07	:47.9 - 00	:47:27	.5) ELAPS	ED: 000 00:39:39.6 2379 SECS
*						
*	LOG	TOTAL	RECORDS	AVG.	BYTES	LOG RECORD
*	TYPE	RECORDS	/SEC	LEN.	/SEC	DESCRIPTION
*						
*	67	356	0	783	117	SYSTEM DIAGNOSTIC LOG RECORD
*	6705	9	0	731	2	TERMINATE THREAD RECORD
*	67FF	347	0	784	114	EXCEPTION CONDITION SNAP
*						
*	******	*********			*********	
1*	HTDOM I	LUG R	ECORD PROC	ESSING	RATE INFO	RMATION SUMMARY *
	FIRST L	SN: 598F405		T LSN:	59FF4B22	
l î î	FIRST S.	ELECTED LSN	: 598F405B		4160 00074	70
1 *	FIRST L	ELECTED LOC	ICK (UTC	200	4160 00074	79
1 *	LAST LO	C PECOPD ST		200	4160 00074	75
1 *	ELAPSED	TTME ON SE	LECTED LOG	(S) ·	4100 00472	000 00.39.39 6
' *	TOTAL #	OF NON COM	MENT CNTLC	RDS RE	CORDS READ	: 1
' *	REOUEST	ED # OF LOG	RECORDS T	O BE SI	KIPPED	: 0
· *	TOTAL #	OF LOG REC	ORDS SKIPP	ED		: 0
*	TOTAL #	OF LOG REC	ORDS READ			: 7342792
*	TOTAL #	OF LOG REC	ORDS EVALU	ATED		: 7342792
· *	TOTAL #	OF REPORTI	NG INTERVA	LS		: 1



User-Supplied Utilities


TBM

Summary

- "Knowledge based" analysis of IMS logs
 - Easy to use, comprehensive tool
 - ISPF panel interface that simplifies and prevents errors in JCL creation
 - Ensures correct and complete selection of log data sets
 - Provides an interpreted version of most of the log records
 - Allows correlation of the log records pertinent to a unit of work
- KBLA Simplifies a complex task

