

Highlights

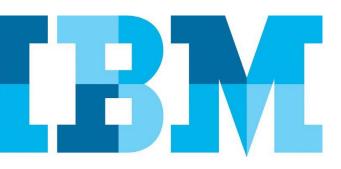
- Ensures IMS databases are operational, tuned, and free of database pointer errors
- Creates reports showing Root Segment distribution for HDAM, HIDAM, PHDAM, and PHIDAM databases
- Provides a historical record of all IMS database changes
- Program Number: 5655-U09

IMS High Performance Pointer Checker

Identifies IMS Database Pointer Errors

IMS™ is IBM's premier transaction and hierarchical database management system. IMS was designed for high availability, superior performance, growth and capacity, and full database integrity. The ability to operate and manage this highly complex IMS system and database environment determines the Total Cost of Operation (TCO). The IBM® IMS Tools lowers TCO by equipping IMS system programmers and IMS database administrators (DBAs) with the facilities they need to effectively monitor and manage this mission-critical environment. The IBM IMS Tools provide automation, validation, and auditing of all database and transaction management activities.

The *IMS High Performance Pointer Checker* tool ensures IMS database pointers are error free. It is a key component of IMS database reorganization. It is fully integrated with the *IMS Database Repair Facility* to allow database pointer errors to be detected and corrected. The *IMS High Performance Pointer Checker* generates reports to pinpoint the location of database errors and provide information to better tune IMS databases.



IMS High Performance Pointer Checker

The *IMS High Performance Pointer Checker* product ensures IMS databases are operational, well-tuned, and free of pointer errors. The tool detects both direct and indirect pointer errors in IMS databases. It analyzes data from the standard *IMS HD Pointer Checker* utility and can show the distribution of root segments for HDAM, HIDAM, PHDAM and PHIDAM databases.

The IMS High Performance Pointer Checker includes a Space Monitor which can forecast potential space utilization problems before they are physically realized. It also includes the DB Historical Data Analyzer which analyzes the status and historical trends of IMS Full-Function database data sets. An example of this report is shown in Figure 1. It reviews the changes in space usage, the size and number of database segments and database blocks.

IMS HIGH 5655-UO9	PERFO	ORMANCE FOINTER CHECKER FOR m/OS - DENDA **HD FOINTER CHECKER STAMMARY REPORT* DATE: 07/10/2012 TIME: 17.27.25								PAGE: 1 FABGHIST - V3.R1	
DBNAME/		DDNAME/	C-DATE/	D-DATE	E/ D-TIME/	CHK-DATE/ CHK-TIM	E/ DATA-	SET SIZE	F-SPACE 4/	петест	ED ERRORS
DB# DEG#	DBLG#	DB-ORGANIZATION	ACCM BLE	SZ LRECL	DBTYPE DEVICE	*SEGMS IN OFLW	CYL'S	BYTES	BYTES	TOTAL	UNKNOWN
HDMMDB2		HD210034	07/06/20	12 07/10	/2013 17.33.53	07/10/2012 17.22.5	3		8 %		
N/A 01	N/A	HDAM	ESDS 10	24 1017	REAL 2290	98		2523376	215670		
HISAMDB1		HISAMDS1	07/06/20	13 07/10,	/2013 17.33.53	07/10/2013 17.33.5	3				
N/A 01	N/A	HISAM	RSDS 81	92 510	REAL 3390						
HISAMDE1		нізамоз2	07/06/20	13 07/10	/2013 17.33.53	07/10/2013 17.33.5	3				
N/A 01	N/A	HISAM OFLE	ESDS 81	92 510	REAL 2290	N/A					
PPOH1		TPFOH1AA	07/06/20	13 07/10	/2013 17.33.53	07/10/2013 17.33.5	3		1.4		
A/A	N/A	PHDAM	ESDS 5	12 505	REAL 3390			10160128	147298		
rprom1		TPFOHIAB	07/06/20	13 07/10	/2013 17.33.58	07/10/2013 17.33.5	3		87 9		
N/A B	N/A	PHDAM	ESDS 5	12 505	REAL 2390			275808	229850		
PPFOH2		TPFOH2AA				07/10/2012 17.22.5	3		10 %		
N/A A	N/A	PHIDAM	ESDS 5	12 505	REAL 2390			2257408	241226		
гргон2		TPFOH2AX	07/06/20	13 07/10,	/2013 17.33.58	07/10/2013 17.33.5	3				
N/A X	N/A	PHIDAM IDK	RSDS S	12 14	REAL 3390	N/A					
гргона		ТРГОНЗАА	07/06/20	12 07/10	/2013 17.33.52	07/10/2012 17.22.5	3		27 9		
N/A A	N/A	PHDAM	ESDS 5	12 505	REAL 2290			752128	280250		
rprox1		TPFOX1AA	07/06/20	13 07/10,	/2013 17.33.53	07/10/2013 17.33.5	3				
M/A A	N/A	PSINDEX	KSDS 5	12 54	REAL 3390	N/A					

Figure 1: IMS High Performance Pointer Checker DB Historical Analyzer Summary Report

The data collected by the *IMS High Performance Pointer Checker* tool can be exported to a flat file which can be further processed by a user application.

IMS Database Solution Key Component

The *IMS High Performance Pointer Checker* tool is part of the *IMS Database Solution Pack* as shown in Figure 2.



Figure 2: IMS High Performance Pointer Checker in IMS Database Solution Pack

Generates Statistical Reports

The *IMS High Performance Pointer Checker* tool generates reports to pinpoint the error locations in IMS databases. These reports show the distribution of root segments in HDAM, HIDAM, PHDAM, and PHIDAM databases and are useful in tuning IMS databases. The HD Analysis report is a multi-page report and an example of the first page for a PHDAM database is shown in Figure 3. The reports created by the IMS High Performance Pointer Checker tool are all stored in the *IMS Tools Knowledge Base Repository*.

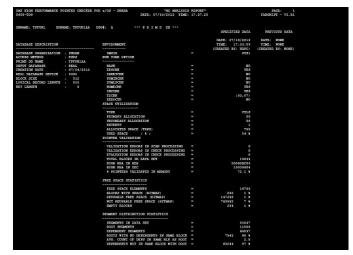


Figure 3: IMS High Performance Pointer Checker HD Analysis Report (page 1 of 3)

For more information

To learn more about the IBM IMS Tools product line, please contact your IBM representative or IBM Business Partner, or visit: ibm.com/software/data/db2imstools/products/ims-tools.html

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