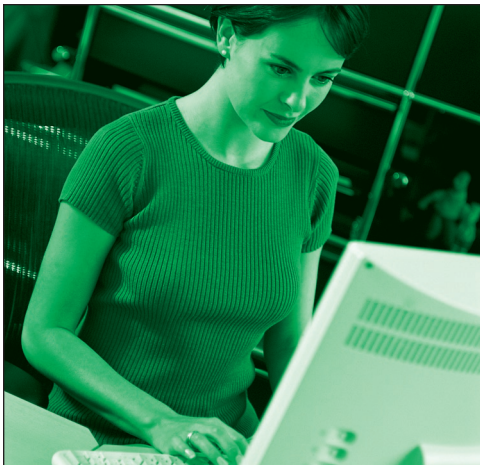


## IMS High Performance Reorganization Tools from IBM

### Highlights

- **Improve management of your database environment**
- **Save time by using high-performance data retrieval and load techniques**
- **Streamline index maintenance and recovery using IBM IMS Index Builder**
- **Incorporate Prefix Update function into IMS High Performance Prefix Resolution**



More efficient I/O processes help improve performance in reloading databases.

### Save time and improve availability

In today's fast-paced e-business operations, you can count on a set of high performance reorganization tools from IBM to help improve availability and performance of your IMS™ databases. These tools now offer parameter settings tuned to meet performance requirements right out of the box.

Features include:

- *Improved performance in IMS High Performance Unload buffer handler.*
- *Improved performance in the I/O processes of High Performance Load.*
- *Ability of IMS Index Builder to build both primary and secondary indexes in a single step.*
- *Ability of IMS High Performance Prefix Resolution to run Prefix Resolution and Prefix Update concurrently.*

These enhancements help reduce the time to reorganize IMS Hierarchical Direct (HD) databases and address the problem of ever-shrinking batch windows in an affordable way.

The tool set includes IMS High Performance Unload, IMS High Performance Load, IMS High Performance Prefix Resolution and IMS Index Builder.

### IMS High Performance Unload, Version 1

IMS High Performance Unload provides an API that enables application programs to leverage high performance

retrieval techniques efficiently. In addition, IMS High Performance Unload:

- *Allows you to unload corrupted databases.*
- *Gives you the option to unload compressed data without decompression overhead.*
- *Provides multiple standard formats for unload data sets.*
- *Includes a variety of statistical reports for improved tuning.*

### IMS High Performance Load, Version 2

IMS High Performance Load gives you the option to load compressed data previously unloaded by IMS High Performance Unload. This tool also accepts multiple standard formats for load data sets, and includes a variety of statistical reports for improved tuning. IMS High Performance Load consists of two utilities, IMS High Performance Load and Physical Sequence Sort for Reload. You can use them with IMS HD organized databases, including PHDAM and PHIDAM.

IMS High Performance Load, Version 2 includes many functional enhancements, including:

- *Better performance in reloading databases due to more efficient I/O processes.*
- *Reorganization reload support for HALDB partitions, including partitions defined in RECON as online reorganization capable (OLRCAP).*

- *Support for ILDSBLD=YES option, which reduces EXCPs for HALDB Indirect List Data Set (ILDS) during HALDB reorganization reload.*
- *Support for unloaded files with customized segment header.*
- *Option of writing secondary index records and logical relationship records in separate data sets, helping to improve the performance of Index Builder and High Performance Prefix Resolution.*

Job Control Language (JCL) statements for IMS High Performance Load, Version 2 are fully compatible with those for IMS High Performance Load, Version 1.

### **IMS High Performance Prefix Resolution, Version 3**

IMS High Performance Prefix Resolution enables you to resolve and update prefixes of IMS databases involved in logical relationships as a single job step. A data transfer service called HPPRPIPE frees up much of the I/O of the tape and DASDs by eliminating intermediate data sets, tape handling and DASD allocation tasks associated with prefix resolution and update.

With the use of HPPRPIPE and HPPR buffer handler, each function improves the performance considerably over the IMS Database Prefix Resolution utility or the IMS Database Prefix Update utility.

### **IMS Index Builder, Version 2**

IMS Index Builder offers several features to improve overall performance and enhance ease of use. This tool quickly builds or rebuilds primary and secondary indexes. The DFSURWF1 file contains records that rebuild secondary indexes as well as perform prefix resolution. IMS Index Builder allows the user to specify an optional output file where records for prefix resolution can be split off and

written as they are read in, greatly reducing size of the sort to perform prefix resolution.

IMS Index Builder creates multiple indexes in just one job step, and it eliminates the need to image copy indexes. Using IMS Index Builder, you can perform index recovery without full database reorganization by using DL/I to scan the database.

In addition, IMS Index Builder:

- *Initializes empty secondary indexes.*
- *Builds new secondary indexes.*
- *Rebuilds corrupted HIDAM primary indexes.*

### **Summary**

The IMS High Performance Reorganization tools address key database tasks such as unloading, reloading and reorganizing. These tools can help you efficiently complete operations and meet your company's availability requirements.

### **System considerations**

All the IMS High Performance Reorganization tools support IMS Version 7 and higher. System Modification Program/Extended (SMP/E) required.

### **For more information**

Please contact your IBM marketing representative or an IBM Business Partner or 1-800-IBM-CALL within the US. Also visit our Web site at **ibm.com/software/data/db2imstools**.

When ordering these tools, please specify the following program numbers:

- *IMS High Performance Unload: 5655-E06*
- *IMS High Performance Load: 5655-M26*
- *IMS High Performance Prefix Resolution: 5655-M27*
- *IMS Index Builder: 5655-E24*



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09-04  
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GC27-1065-01