

## Dynamic Reorganization of IAM Datasets

### Dynamic REORG Increases Application Availability and Provides a Significant Reduction in CPU and Elapsed Time.

IAM Version 9.3/01, in conjunction with FDRREORG Version 5.4/85 or higher, greatly improves reorganization processing for IAM Enhanced Format Data Sets.

The IAM Dynamic Reorganization feature provides two new capabilities that dramatically reduce the amount of time IAM data sets are unavailable for online processing. The first is a new reorganization technique that **reduces wall clock and CPU time** to reorganize IAM data sets, particularly those with a significant amount of overflow area usage. The second is the ability to carry out the high performance reorganization while the data set *continues to be available* for CICS online system processing. This process then temporarily closes the file to CICS, quickly performs the updates to the new reorganized copy that occurred during the reorganization, and reopens the file to CICS. The data set is unavailable to CICS only for the few seconds that it takes to close, update, rename, and reopen.

### Performance Example

To demonstrate the benefits, a benchmark was done on an IAM file with an alternate index versus the equivalent VSAM file. The file had following characteristics:

- Record Length of 325 bytes
- Key Length of 43 bytes
- Alternate Key Length of 52 bytes
- Loaded with 9,000,000 records, followed by a batch job insertion of 500,000 records
- At time of reorganization, the file had 9,506,269 records

The results are shown below for the different reorganization scenarios indicating the amount of time the **data set would be unavailable to CICS**:

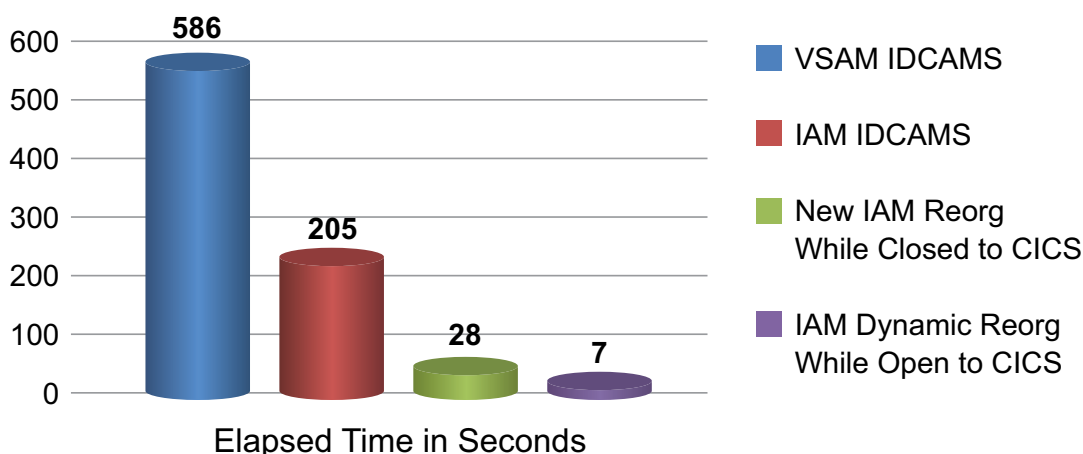
#### TRADITIONAL

- Standard IDCAMS Reorganization of VSAM data set: 9 Minutes, 46 Seconds
- Standard IDCAMS Reorganization of IAM data set: 3 Minutes, 25 Seconds

#### NEW

##### *With the NEW IAM DYNAMIC REORG Feature*

- New IAM Reorganization of IAM data set: 28 Seconds
- Dynamic Reorganization of IAM data set while Open to CICS: 7 Seconds



*continued...*

## Dynamic Reorganization Resources

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Request IAM Version 9.3/01

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