

IBM Software Group

IMS High Performance Unload - 2 Components

■HP Unload

At the heart of HP Unload is a High Speed Sequential Retrieval (HSSR) Engine
Can be invoked by appropriate DL/1 applications
Used by two supplied Reorg Unload Utility Programs (FABHURG1 and FABHFSU)
High speed buffering technique similar to OSAM SB, different from DL/I Buffering

▶ To unload IMS databases

Supports processing of HDAM, PHDAM, HIDAM, PHIDAM, HISAM, SHISAM and secondary index data bases

▶ To accelerate sequential access in IMS batch application Transparent to programmer Implicit (CALL 'xxxTDLI') or explicit (CALL 'xxxHSSR') support

■ Sequential Subset Randomizer

- Creates randomizing module for fast sequential processing of record subset
- Allows physical clustering of database records in same subset



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IMS HP Unload in the Reorganization Process ...

■ FABHURG1

▶ Provides standard output formats (specified in FRMT SYSIN statement)

HD Unload Format (default)

CS (Communications Industry Standard) Several formats suitable for application program usage (F1, F2, F3, ...)

- ▶ Allows user exit formatting of output records exit name specified on FRMT control card
- Segments can be selected/skipped by use of record formatting exit or segment edit exit
- ▶ Supports high performance migration to/from HALDB

But NOT MIGRATX option!

 Can unload a subset of records skip m then unload n records

- FABUECU

- ▶ Provides 4 output formats and can produce three concurrently
 - HD Unload Format HSAM DB format

Two formats suitable for application program usage (VB and VN)

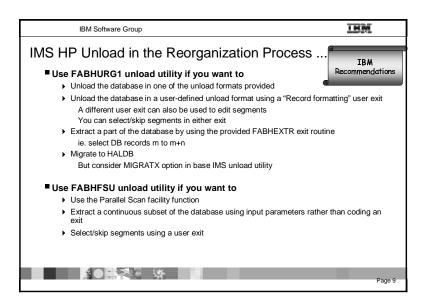
▶ Can unload a subset of the input DB (without coding a segment selection exit)

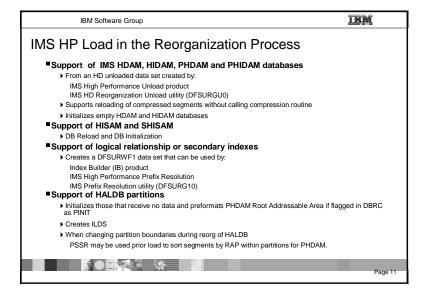
Key range for HISAM/HIDAM Range of blocks/Cls for HDAM

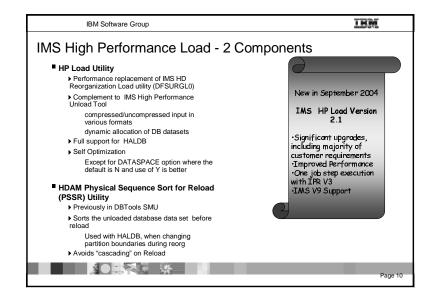
- ▶ Alternatively, segments can be selected/skipped by use of record selection exit
- ▶ Provides a Parallel Scan Facility for multi-

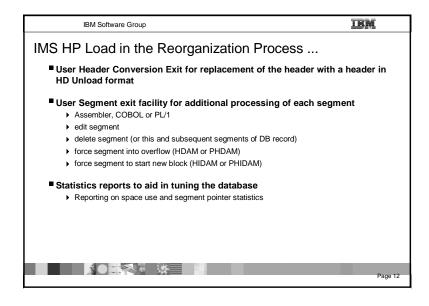
volume HDAM or HIDAM DBs

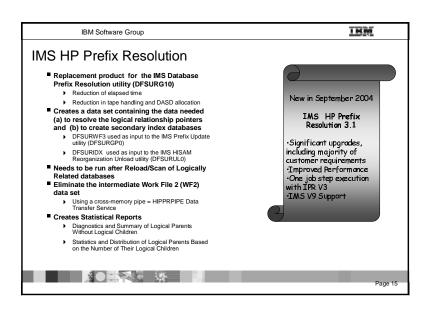
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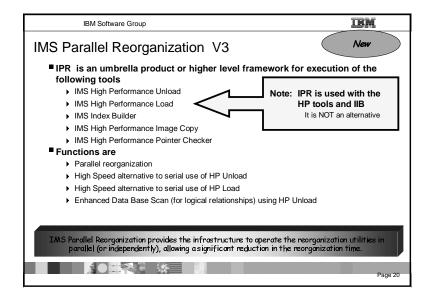


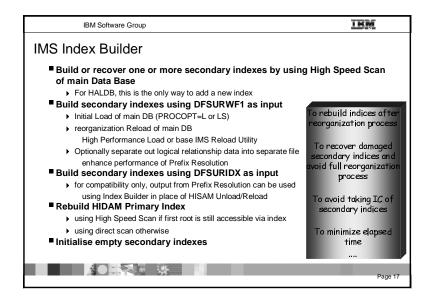


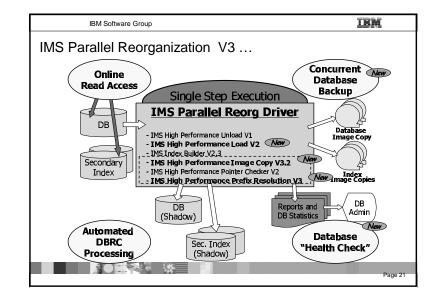


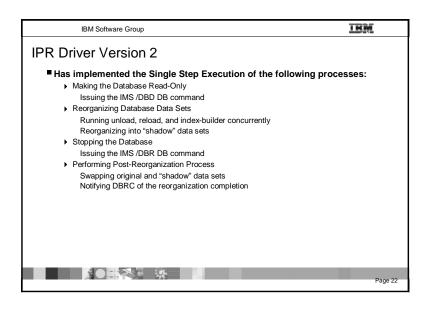


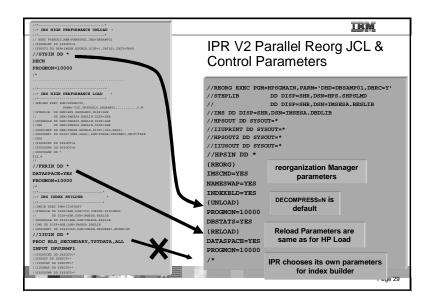


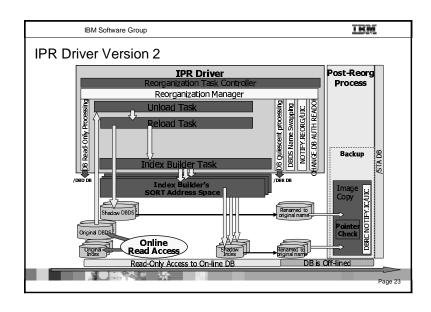


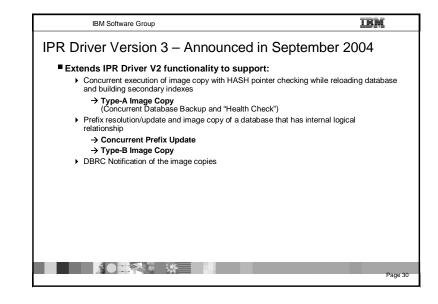


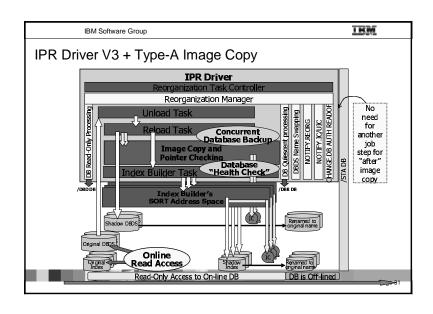


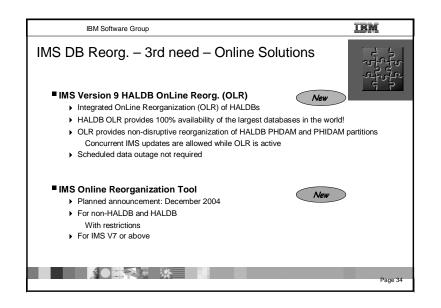


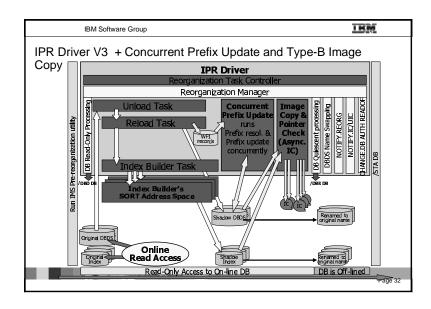


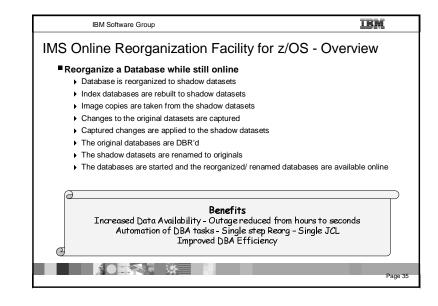


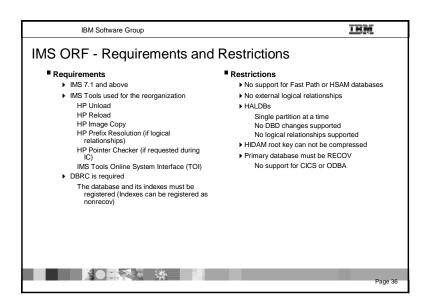


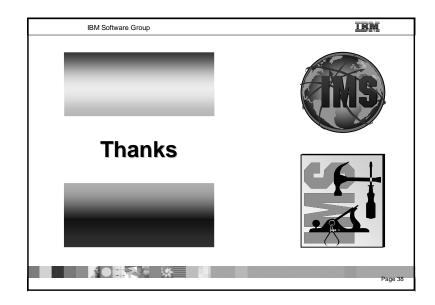












IMS DB Reorganization

