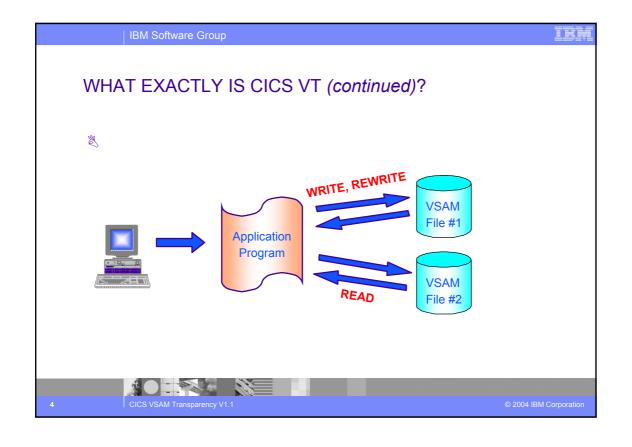
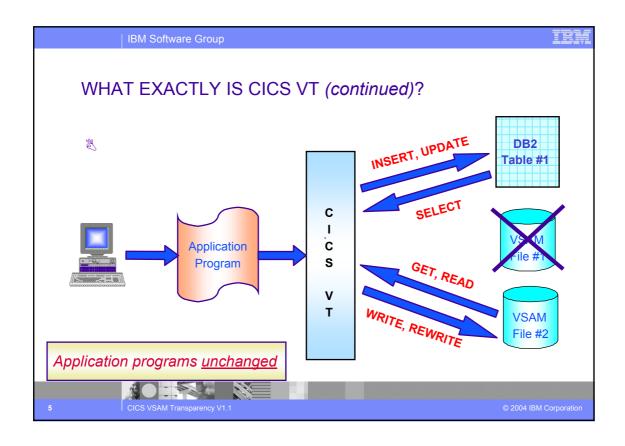
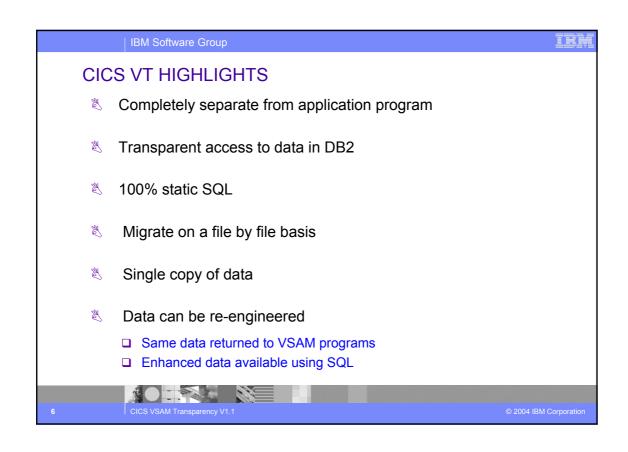


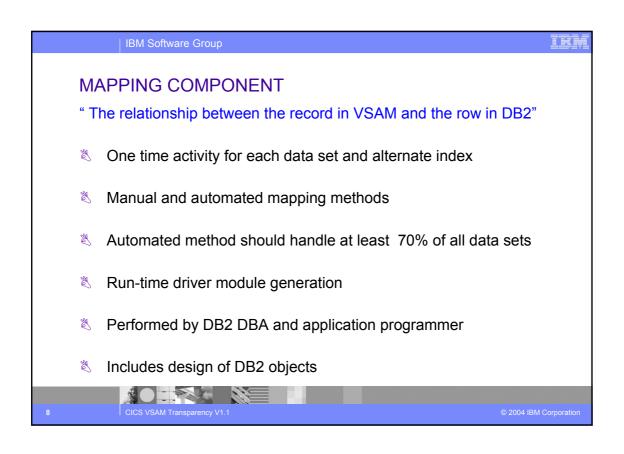
WHAT EXACTLY IS CICS VT? Tool to migrate VSAM files to DB2 without changing application programs Single copy of the data Single version of the truth Legacy programs access DB2 data using driver modules CICS VT generates for each migrated data set Migrated data can be accessed by SQL in new programs Existing programs can be enhanced using SQL Lowest risk migration strategy

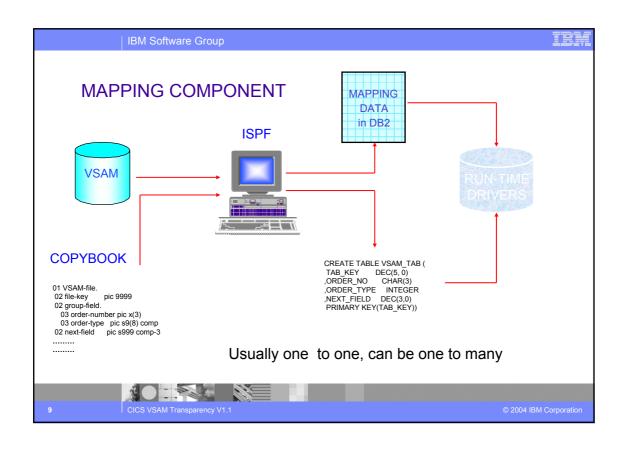


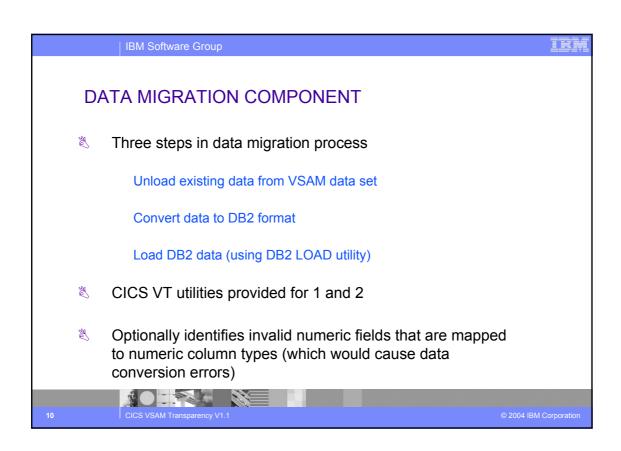




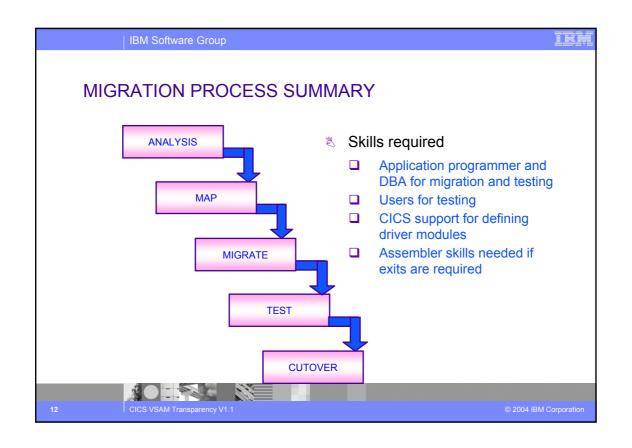
CICS VT COMPONENTS Mapping component Establishes relationship between VSAM record layout and DB2 row Data migration component Utilities to migrate data to DB2 and re-engineer if required Run time component Intercepts application calls to VSAM data sets migrated to DB2



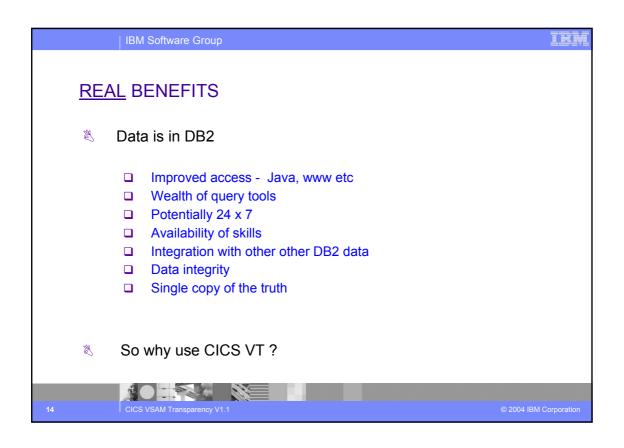


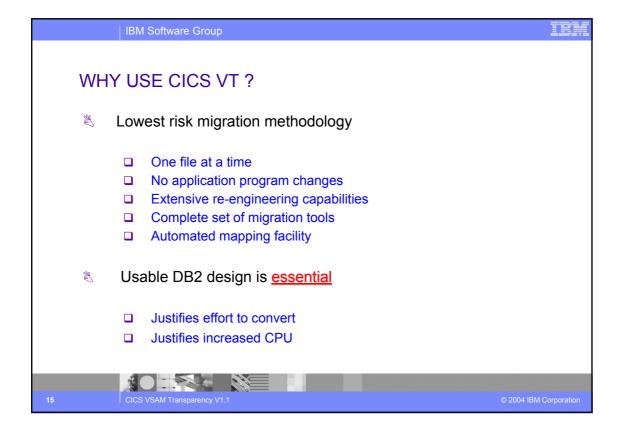


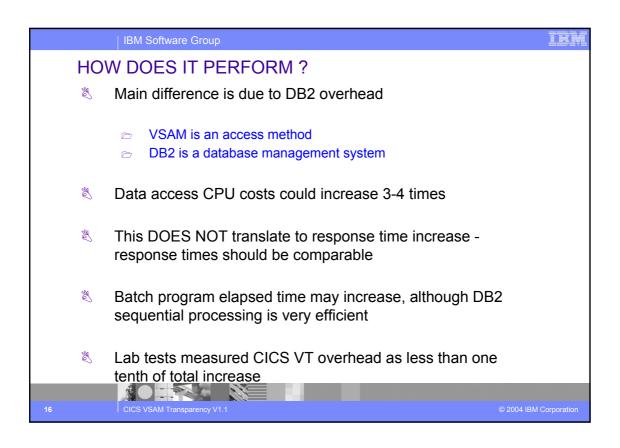
IBM Software Group **RUN-TIME COMPONENT** Application programs continue to issue calls to VSAM files B CICS VT intercepts call Using a global user exit (GLUE) in CICS Using an MVS sub-system for batch programs B Translates call to equivalent SQL call and processes in DB2 B After call has been processed by CICS VT Data and RESP codes return to CICS program Data and return and reason codes passed back to batch program



	IBM Software Group	iem
SE	TTING EXPECTATIONS Scepticism	
	□ Transparency tools get bad press □ Performance usually deteriorates □ Application maintenance becomes more complex □ "Black box" solutions unpopular with systems staff	
	Performance VSAM is a file system, DB2 is a DBMS DBMS functionality comes at a price	
13	What are the <u>REAL</u> benefits?	© 2004 IBM Corporation







HOW TO MITIGATE PERFORMANCE IMPACT

CICS VT uses 100% static SQL and every DB2 call uses an index

Concurrent batch and online programs

Online backups

DB2 data can be reorganised non-disruptively to ensure consistent access times

Re-engineered data provides extra business value

CICS VSAM Transparency V1.1

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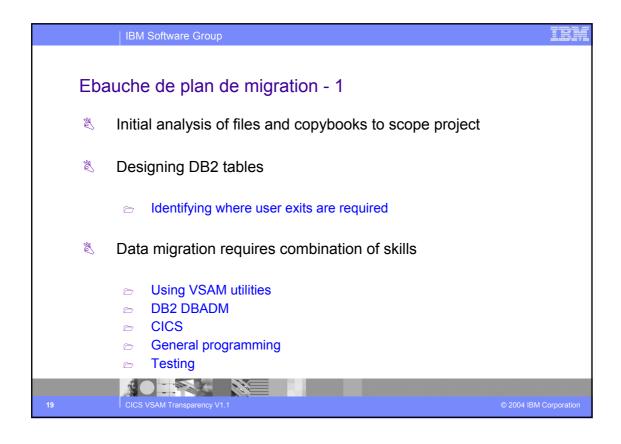
IRM

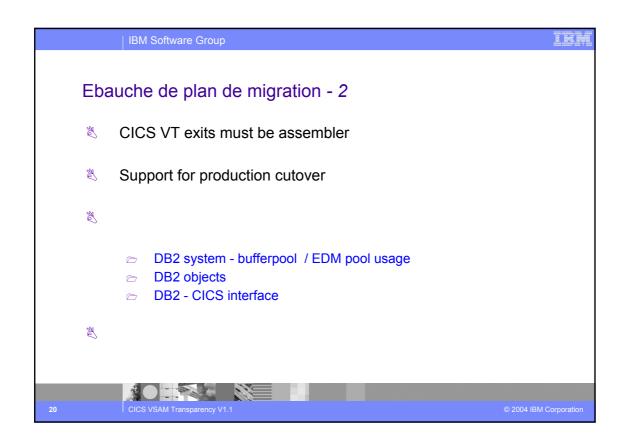
ESTIMATING CONVERSION EFFORT

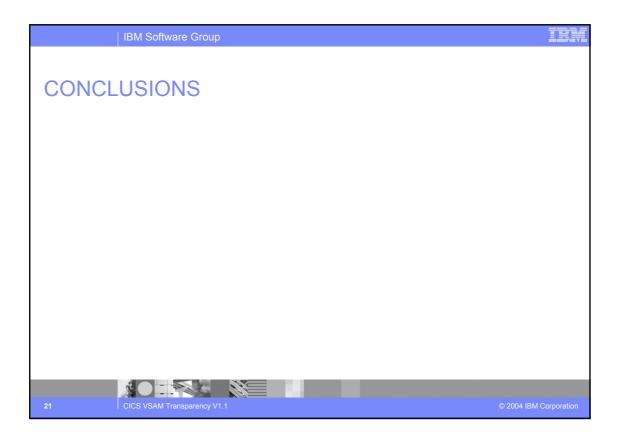
- * It depends on the complexity of the file
 - Files containing single record type can be mapped automatically, and migrated usually within 1 day
 - CICS VT user exits are required to migrate one data set to multiple DB2 tables - 2 to 5 days for this kind of VSAM file
 - □ Typical split seems 70-30
- Allow time for data cleansing more likely in applications processing numeric and date fields
- Testing is the most significant element 0.5 to 1 day per program user decides which programs

CICS VSAM Transparency V1.1

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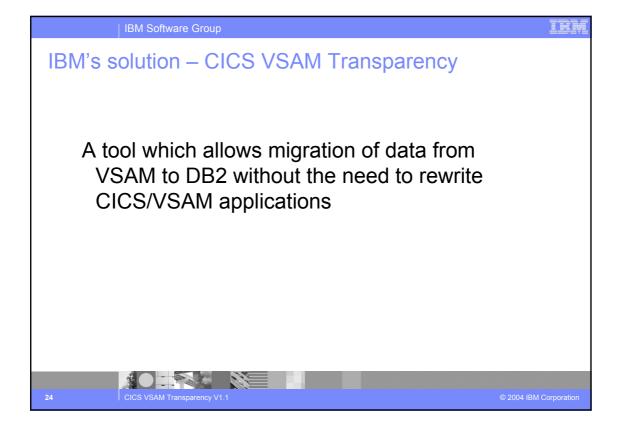




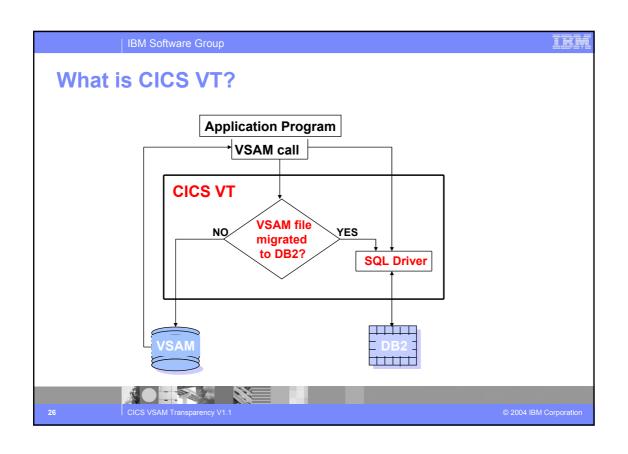


VSAM based applications VSAM is not designed for open data access (i.e. management reporting, analytics) VSAM data does not easily integrate with data from DB2 and other systems VSAM is not easily accessible from other platforms VSAM is not designed to support 24*7 mixed online and batch workloads Maintenance and re-organization tools are lacking the richness of DBMS tools

Why migrate data to DB2? - 24x7 availability – batch and online sharing - Integration with new applications based on DB2 technology, such as online and e-business systems - Running ad hoc queries - Ability to perform data analysis - Creating visual information, such as executive dashboards - Exploitation of database maintenance tools



CICS VT capabilities Tool to migrate legacy VSAM files to DB2 without changing application programs Single instance of the data is maintained Both CICS and batch programs can access data in DB2 under the control of CICS VT Migrated data can be accessed by SQL by new programs Existing programs are enhanced using SQL Lower risk migration strategy



For	IT / AD manager
Who needs	To rewrite CICS applications to support his IT organisation's migration strategy of VSAM to DB2
The offering	CICS VSAM Transparency V1.1
ls a	Data migration tool
That	 Allows data to be migrated from VSAM without application rewrite Is completely separate from the CICS app Offers totally transparent access to the data in DB2 Allows you to migrate VSAM files as required
Unlike	Replication, duplication or propagation solutions
Our offering	Maintains a single instance version of the data

