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DB2® for Linux, UNIX, and Windows Migration Assessment Questionnaire

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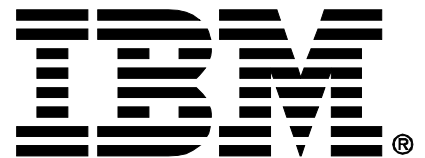
COMPANY NAME:

APPLICATION NAME:

DATE:

Prepared By:

Technology Ecosystem Team
Information Management Software
IBM Software Group

IBM

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The purpose of the assessment questionnaire is to gather metrics for evaluating the technical feasibility of application migration to DB2 for Linux, UNIX, and Windows. The IM Technology Ecosystem Team will use this information for the sole purpose of preparing an assessment of the application migration effort. We greatly appreciate your best effort in completing the questionnaire.

This document will be treated as Confidential once completed

1 - Company Information

Company Name & Address	Contact Name & Job Title	IBM PartnerWorld ID (8 digits starting with 19)
		19
Email	**Telephone**	**IBM Representative**

Development timeline for DB2 migration	
How do you plan to continue after the migration	**Clean cut over (replace current database with DB2)** **Single code stream for multiple databases (generic)** **Migration Window (short-term support for other db)** **Multiple db support via separate code for exploitation** **Other (please explain):**
Please describe your skill level/experience with DB2	

2 - Application Information (approximate counts/estimates are acceptable)

Name of application and version under consideration for enabling to DB2	
Primary functions of the application	

Please state the target deployment Client, Middle-tier, and Database server Operating Systems and versions, using the table below:

Client	Middle-tier (Application Server)	Database Server

What databases and versions are currently supported	
What application servers are currently supported (if any)	
What third-party integrated components are used (if any)	

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What type of workload is expected	OLTP OLAP/BI DSS Mixed If **OLAP/BI** or **Mixed**, is any special OLAP/BI functionality required
If there are any known performance bottlenecks in the current implementation, please describe	
Approximately how many users will use the database	**Average** # of concurrent users: **Peak** # of concurrent users:
If the application exploits non-relational or proprietary database technology, please describe	
Describe where application interacts with database (e.g., application source code files, batch programs, etc.)	

Describe the application Components/Modules/Interfaces using the table below:

Component Name (e.g., billing, inventory, batch program, etc.)	Programming Languages/Interfaces (e.g., C++, Java, ODBC, JDBC, OCI, Perl, PHP, Forms, Pro*C, etc.)	Number of Modules/Files	Total Lines of Code of Modules/File

Describe the high-availability solution (if any)	
	Standby is: **Passive** (or read-only) **Active**

Additional comments about the Application environment:

3 - Database Information (approximate counts/estimates are acceptable)

General	
What is the approximate database size	**Average** Size: GB **Largest Known** Size: GB
If more than one database is used by the application, please describe how	
If the database is partitioned across multiple servers, please describe architecture	
Describe any data loading requirements (data movement scripts, special loading utility, automatic data generation programs, etc.)	
Does the database store Unicode data	**Yes No**
If there are any sorting requirements, such as supporting multiple collations in one database, dynamically changing collation, etc., please describe	
If XML data is stored and/or queried, please describe	
Is Data Replication used	**Yes No**
Are you interested in any specific DB2 Technology features	**Silent/Unattended Installation Embeddable/OEM Database Autonomics/Self-Tuning Memory Management Deep Data Compression Other (please describe):**
Additional comments about the Database environment:	

Tables	
Number of tables	**In Total: With row size > 32,677 bytes (NOT including LOB or LONG data): With > 1012 columns: With Numeric columns > 31 digit precision: Using Nested tables (TYPE...IS TABLE OF) or Varray (TYPE...IS VARRAY) as column type: Using Unique constraints on nullable columns: Using Deferred constraint checking:**

Indexes	
Number of indexes	**In Total:** **With LOB/LONG columns:** **Function-based:** **Using bitmap indexing:**

Views	
Number of Views	**In Total:** **Materialized views:** **Updatable:** **Complex (e.g., with more than 5 tables in join):**

General	
DB2 supports the following column data types: *** Numbers: NUMBER, SMALLINT, INTEGER, BIGINT, DECIMAL, NUMERIC, REAL, DOUBLE, FLOAT, DECFLOAT** *** Characters: CHAR, NCHAR, VARCHAR[2], NVARCHAR, CLOB, NCLOB** *** Graphic strings: GRAPHIC, VARGRAPHIC, DBCLOB** *** Binary: characters FOR BIT DATA, BLOB** *** Datetimes: DATE, TIME, TIMESTAMP[(n)]** *** XML: XML** *** Distinct: "sourced", structured, REF** **Identify any additional types used**	
DB2 supports the following routine (procedure, function, trigger) programming languages: **SQL PL, PL/SQL, C/C++, Java, .NET CLR, OLE, OLE DB** **and the high-level data types (in addition to column types above):** *** Boolean values: BOOLEAN** *** Cursor values: Ref Cursor, CURSOR** *** Array values: VARRAY, INDEX BY (associative array)** *** Anchored types: %TYPE, %ROWTYPE** **What routine language(s) used (if any) and are there any additional data types required**	
On a scale of 0 (None) to 5 (Extensive), rate the usage of:	**Autonomous transactions** **Packages with private procedures and functions (no prototype in CREATE PACKAGE)** **Public aliases for objects other than packages, sequences, tables and views** **Complex Records (e.g., use NOT NULL/DEFAULT, contain: object, collection, or nested record)** **Complex Arrays/Collections (e.g., arrays of arrays)** **Stored Procedure/Function parameter overloading** **Localized routine nesting (function/procedure declared within function/procedure)**

Stored Procedures	
Number of SQL Stored Procedures	**Total:** **Total Lines of Code:**

Number of non-SQL Procedures (e.g., Java, C)	Total: Total Lines of Code:
If any procedures are larger than 2MB, how many	
User-Defined Functions (UDFs)	
Number of SQL Functions	Total: Total Lines of Code: Number that are Pipelined, if any:
Number of non-SQL Functions (e.g., Java, C)	Total: Total Lines of Code:
Triggers	
Number of Triggers	Total: Total Lines of Code:
On a scale of 0 (None) to 5 (Extensive), rate the usage of:	**Multi-action (one trigger for Insert/Update/Delete)** **Enable/disable trigger** **BEFORE Triggers that modify (Insert/Update/Delete) the database**
Database Scripts	
Number of database scripts (Application, Administrative, Maintenance etc.) and language used	
Total Lines of Code	
SQL	
On a scale of 0 (None) to 5 (Extensive), rate the usage of:	**Proprietary functions/triggers/packages (other than common ones like: TO_CHAR, TO_DATE, TO_NUMBER, TO_CLOB, TO_TIMESTAMP, INITCAP, RPAD, LPAD, DECODE, INSTR, NVL, DAYNAME, MONTHNAME, NEXT_DAY, LAST_DAY etc.)** **Data Dictionary views** **ORDER BY/GROUP BY that exceed 32,677 bytes** **Optimizer/SQL performance hints** **Search on large text fields** **Regular expression matching (e.g. REGEXP_LIKE or dbo.RegexMatch)** **Case-insensitive search**

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4 - Additional Data/Documentation Requests

Database Objects DDL	Please provide some representative DDL code (Tables, Views, triggers, functions, stored procedures, Packages, Types).
Application SQL Statements	Please provide some representative (complex or important) SQL Statements that are used in Applications. Static or Dynamic.
Sample Application Code	Please provide any sample application code that you consider need special consideration for the migration.
Database Scripts	Please provide any sample database scripts (application, administrative, maintenance, etc.) that you consider need special consideration for the migration.
Application Documents	Please provide high-level Architecture, and/or Design and/or Implementation, and/or Application Benchmark Documents.

5 – Additional Comments (e.g., Other Database Specific Features Required)