

# Technical Questionnaire

**Company name (ISV):** \_\_\_\_\_

**Application name and version number:** \_\_\_\_\_

## **Platform Specific Information:**

1. What is your current development platform for the application?
2. Has this application been deployed on any platform other than the development one? If yes, which one(s)?
3. Describe any non-IBM hardware (i.e. graphics adapters) used by your application and whether or not the required drivers are available on the target platform.

## **Application Specific Information:**

4. Please briefly describe your application and its architecture.
5. What are the different components of your software? Please provide name and version numbers for each component.
6. Which of these pieces need to be ported?
7. Is any part of the application implemented in assembler code?
8. In which software language(s) are the application components written? Are any components written in Java? If yes, which version?
9. Please provide a rough estimate of the number of lines of code in the software, listed by language types.
10. For Java applications: Does the application use the JNI interface to link native libraries? Please describe.
11. Does the application use kernel extensions? If yes, please describe.
12. Is it a 2D/3D graphics application? Please describe.
13. Does the application use UNIX pipes, message queues, shared memory, signals, or semaphores? Please describe.
14. Is the application, or are any of its components, multi-threaded? If yes, which threads library is currently being used? Does the application rely on any proprietary threading priorities on your development platform?
15. Does the application do operations that assume specific byte storage order? Is this likely to be an issue during the port?
16. Which compiler is used on the development platform? Beyond compilers, other development tools used? (*Implication:* Native development tools might not be available on the target platform, and may need to be ported also.)
17. In addition to the development environment, are there any dependencies on debugging tools such as memory leak debuggers, performance analysis tools, exception handling, etc.?
18. Is it a socket-based application? If yes, does it use RPC? Please describe.

19. Does the application use any third-party software components (database tools, application server, or other middleware)? If yes, which ones? (*Implication:* Every third party software component adds complexity to the port. If a component is compiled using a back-level compiler, it will still work but compatibility issues might have to be handled with the new binary.)
20. How is the application delivered and installed? Does it use standard packaging? Will the installation scripts need to be ported also?
21. Is the application or are any of its components 64-bit enabled? Will any component need to be migrated to 64-bit?

#### **Database Information:**

22. What databases are currently supported? Please include version numbers.
23. Does the application use any non-relational or proprietary database?
24. How does the application communicate with the database?
  - i. Programming language(s) (e.g. Java, C/C++, other)
  - ii. Database interface(s) (e.g. ODBC, OCI, JDBC, etc.)
25. Does the application require the use of extended data types (XML, Audio, binary, Video, etc.)?

#### **Testing Specific Information:**

33. What kind of hardware (for development and for testing) will be needed?
34. Please describe the acceptance testing set-up (e.g. what unit tests need to run successfully?)
35. What kind of networking and database setup will be required for unit testing?
36. How much testing will be required after porting (number of days, number of resources)?
37. Do you have established test scripts and application performance measurements?
38. Will benchmarks need to be run for comparison testing?
39. Is performance data available on current platforms? When were the tests last run?

#### **Project Schedule Information:**

24. What is the desired availability date for the application on the target platform?
25. Has the porting of the application already started on the target platform?
26. What is the estimated port complexity level (low, medium, or high)? What factors were considered in this complexity ranking?
27. Has the application already been ported to another platform? If so, how long did it take? What resources were dedicated to it? (e.g. person-weeks, person-months)
28. What issues were encountered?
29. Since you know the most about your application, what is your rough estimate of the project porting time and resources required?