

SAS SOFTWARE FOR IBM SIZING AND PLANNING QUESTIONNAIRE

Questionnaire Version 1.2

March 24, 2003

For sizing requests in all Geographies, send completed questionnaires to:

**IBM Americas Techline Solution Sizing
West Chester, Pennsylvania**

e-mail: **eSizings@us.ibm.com**
Phone: **(770) 835-6690**
Toll free: **(800) IBM-0222**
Fax: **(845-491-2372)**

1.0 INTRODUCTION

The purpose of this questionnaire is to collect information to estimate the IBM hardware requirements for the implementation of SAS Solutions.

It is important to understand that a sizing estimate is an **approximation** of the hardware resources required to support a SAS implementation. It is a pre-sales effort based on information available at a point in time, providing an initial understanding of the customer's hardware requirements. Customers' actual experiences will vary from the sizing estimate for many reasons. The degree of variability can range from small to very significant. IBM assumes no liability for actual results that differ from the sizing estimate.

This questionnaire is maintained by the IBM/SAS International Competency Center. It is updated periodically to reflect changes in SAS and IBM products and to incorporate feedback that we receive from the field, through the IBM Solutions Sizing Center. The IBM/SAS sizing methodology uses information from SAS, IBM/SAS sizing studies, and actual customer experiences. The sizing estimate is based on input from the completed sizing and planning questionnaire

2.0 INSTRUCTIONS FOR COMPLETING THE QUESTIONNAIRE

In general, hardware sizings for SAS are user-based, and you will be asked to specify numbers of users of the various SAS workload types. In addition, you will be asked for information about your input data, planned solution architecture, hardware environment, etc. The five steps to completing the questionnaire are listed below and described in more detail on the following pages.

- (1) Make sure you have the current version of the questionnaire.
- (2) Obtain assistance if necessary.
- (3) Complete Section 3 of the questionnaire.
- (4) Complete Section 4, *Sizing Questions*.
- (5) Return the questionnaire to the IBM Sizing Center

2.1 Make Sure You Have the Current Version of the Questionnaire

Over time we revise the SAS Sizing and Planning Questionnaire, and before taking the time to complete it you should make sure you have the most recent version. To obtain a softcopy of the questionnaire use the URL: www.ibm.com/erp/sizing or send a request to the IBM Sizing Center at esizings@us.ibm.com.

2.2 Obtain Assistance if Necessary

Once you have the current version of the questionnaire, you will be able to answer the questions without having detailed knowledge of SAS. However, if you do need assistance, your SAS or IBM Representative can obtain support through the Sizing Center. Send your questions to the IBM Sizing Center at esizings@us.ibm.com or call us at 800-IBM-0222.

2.3 Complete the Contact Information

Section 3 of the questionnaire asks general questions about you and your IBM and SAS representatives.

2.4 Complete the Sizing Questions

In Section 4 you will provide answers to detailed questions pertaining to your planned SAS implementation. These questions address such areas as data sources, number and types of users, etc.

2.5 Return the Questionnaire to IBM:

Send your completed questionnaire to IBM. If you have a hardcopy of the questionnaire, fax it to us. If you have a softcopy of the questionnaire, email it to us. Send completed questionnaires to:

IBM Sizing Center (Techline)
email: esizings@us.ibm.com or fax: 845-491-2372

3.0 CONTACT INFORMATION

3.1 Date _____

3.2 Customer Information. Please complete this entire section.

Company Name	
Street Address	
City, State/Province, Zip Code	

Customer Contact	
Title	
Phone Number	
Fax Number	
Email Address	

Industry	
Short Business Description	

3.3 SAS/IBM Contacts

Please tell us the name of your SAS and IBM sales contacts. We will send the results of the sizing estimate to the customer contact listed above and to the following SAS, IBM and business partner contacts.

SAS Sales Contact	
Phone Number	
Email Address	

SAS Technical Specialist	
Phone Number	
Email Address	

IBM Sales Contact	
Phone Number	
Email Address	

IBM Technical Specialist	
Phone Number	
Email Address	

4.0 Sizing Questions

4.1 Source Data and Storage Requirements:

- What data storage method is being used for the “input data” for this SAS application? (*In most cases this will be either a Relational Database Management System or SAS data files*). _____
- Where will the “input data” reside? (*Please check the correct response.*)
_____ The data is kept on a remote system with a network connection
_____ The data will be stored on the same server that contains the SAS application
- What is the total size of the input data? (*Disk space in MB, GB, TB?*)

(*If the size is unknown please indicate the number of records*) _____
(*If the size is unknown please indicate the number of rows*) _____
- What is the expected growth of the data involved? _____
- How much historical data needs to be stored? _____
- If known, indicate the total storage requirement for the system? (*Includes Database size; SAS work area; User work area; etc.*) If this is unknown an estimate will be made based upon the above responses.

4.2 Server Utilization:

- Indicate the number of users for each workload type.
Web Users requesting dynamic reports _____
Web Users requesting static reports _____
OLAP Users _____
Query & Reporting / Adhoc Users _____
Power Users / Decision Support Users _____
Data Mining Users _____
- On average what will be the total number of “concurrent” SAS sessions? (*number of sessions equals the number SAS users times the number of sessions per user*)

- Maximum number of “concurrent” SAS sessions? _____
- What is the expected growth in the number of SAS users? (*please indicate growth percentage per year*)

- Will the same server be used for other applications? If yes, please provide a brief description of additional applications. _____

4.3 SAS usage:

- What SAS products are installed -or- being considered? _____

- How many steps are in a typical SAS job? _____

- How will the client systems access the Server? (*via client/server SAS sessions -or- via an X-emulation session*)

4.4 Determine the Server configuration:

- What IBM Server platform is being considered?

- Do they have an existing server they want to use?

 - If so, what is the existing configuration?
 - Model

 - Number of Processors

 - Processor Speed

 - Amount of physical RAM

 - Current I/O subsystem layout (*number of disks, number of controllers...*)

 - Are there performance problems with the current server?

4.5 If customer is considering a specific solution, complete the appropriate information below:

Data Warehousing:

- Overall data warehouse architecture for database creation and query?

- Describe Data content and Data preparation for SAS/DW _____
- Will data be loaded into an OLAP data structure, SAS database or flat files for access by the users?

- Are the Databases read only access or update access? _____
- Will SAS users access shared data on the DW server or on a Data Mart server?

Data Mining:

- How many Enterprise Miner projects will be running at any given time?

- On the average, how many per day? _____
- Is there a peak workload period? (*Week, Month, Quarter?*) _____
- What volume of data will the EM projects be accessing? (*Number of records, size of each record, total file size?*)

- How many variables will be used for analysis?

- How many unique values for each variable will be used?

- Will you be running data preparation/cleansing jobs during data mining executions?

- What is the expected response time of the users? _____

Web-based Applications:

Provide a brief overview of the Internet architecture, applications and the SAS/Internet products that will be used to deliver the application.

- Will the users select and generate reports dynamically? _____
- Will they be doing Graphs or Static report viewing? _____
- What data store will the dynamic reports be run against? _____
- What is the number of reports involved? Size of reports? _____
- Are there peak processing times? _____
- Will you be using SAS/Share? _____
- Will the same server host both the Web processing and the application processing?
