Calculating Size Requirements

The command SYSRPC CSMASS is used to calculate the buffer size stubless RPC calls require for sending data from the client to the server or vice versa. The indication of the size helps you configure the middleware layer used; for example, the Broker attribute file when EntireX Broker is used.

If desired, you can also perform size calculations for stub subprograms (interface objects), even though sizes are already calculated when generating the stub subprograms.

SYSRPC CSMASS can be used in online or batch mode.

This section contains information on:

- Using the SYSRPC CSMASS Command
- Name Specification and Compression

Using the SYSRPC CSMASS Command

You can enter the command SYSRPC CSMASS at any NEXT or MORE command prompt for calculating size requirements online.

The section below contains information on:

Syntax of SYSRPC CSMASS

The syntax that applies to the command SYSRPC CSMASS is illustrated in the diagram below:

```
SYSRPC CSMASS [name] [compression]
```

The syntactical items *name* and *compression* are explained in the section *Name Specification and Compression*.

SYSRPC CSMASS Report

The command SYSRPC CSMASS produces a report that indicates the send and receive length requirements of the subprograms (objects) specified with the command as shown in the following example:

Page 2006-05-24 15:54:12 1 SYSRPC - Calculation of Buffer Sizes for Stubless RPC in Library SAGTEST Calculation Criteria: Object name or range: RPC* Compression: 1 Calculation Results: Number of objects found: 8 Maximum send length: 200228 Maximum receive length: 1024192 Object Type Send Length Receive Length Message ____ _____ _____ RPCCALL1 N 209 202 RPCCALL2 N 219 240 Compression=2 RPCCALL3 N 204 193 MORE

The report is organized in three sections, which contain the following information:

• Calculation Criteria:

The criteria based on which the calculation was made: a single object name or a range of names (here: RPC*) and the compression (here: 1).

• Calculation Results:

The number of objects selected for the size calculation.

The maximum buffer sizes all selected objects require for sending and receiving data from the client.

• Object List:

The name and type (here: N for type subprogram) of each object selected for the calculation. The buffer sizes each object requires for sending (**Send Length**) and receiving (**Receive Length**) data from the client. A possible comment on each object calculation in the **Message** column. In the example above, Compression=2 indicates that object RPCCALL2 was not calculated with Compression 1 as requested in the command. The object list is sorted in alphabetical order of object names.

If the MORE prompt appears, choose ENTER to scroll to the end of the report.

If the size calculation fails for single or multiple objects, the report shows the number of objects affected and appropriate error messages.

Name Specification and Compression

You can specify the objects (subprograms or PDAs) to be selected for size calculation and the type of compression to be used:

- Name
- Compression

Name

You can specify an object name or a range of names. If you do not specify a name or a range of names, the size of all subprograms or PDAs contained in the current library will be calculated.

Valid name specifications are described below where *value* is any combination of one or more alphanumeric characters:

Input	Objects Selected
*	All subprograms or PDAs.
	This is the default setting.
value	A subprogram or a PDA with a name equal to <i>value</i> .
value*	All subprograms or PDAs with names that start with value.
value<	All subprograms or PDAs with names less than or equal to value
value>	All subprograms or PDAs with names greater than or equal to value.

Compression

You can specify any of the following compression types: 0, 1, 2. The specification of compression is optional. The default type used for stub generation is 1.

See also Using Compression described in Operating a Natural RPC Environment in the Natural Remote Procedure Call (RPC) documentation.