Server Examples for BS2000/OSD

This chapter describes the examples provided for the C Wrapper for BS2000/OSD. It covers the following topics:

- Overview
- Creating the C RPC Sample Server

Overview

The following C RPC Server example is delivered for BS2000/OSD:

The EXAMPLE server module contains the server-side implementation of the procedure SQUARE and the function CALC.

| Element | Туре | LMS Library | Comment | Notes |
|--------------------------------|------|-------------|--|-------|
| CREATE-EXAMPLE-SERVER | J | EXP811.CSRV | S-procedure to generate the C RPC sample server. It uses RUN-CPLUS-COMPILER. | |
| RUN-CPLUS-COMPILER | J | EXP811.CSRV | S-procedure to run the CPLUS compiler. | |
| EXAMPLE.C | S | EXP811.CSRV | C RPC sample server program source. | 1 |
| DEXAMPLE.C | S | EXP811.CSRV | C RPC sample server stub source. | |
| ERX.H ERXVDATA.H ERXARRAY.H | S | EXP811.CSRV | RPC runtime header files. | |
| ETBCDEF.H | S | EXP811.CSRV | C language ACI control block definitions. | |

Notes:

1. When compiling the C server example sources, the compiler may issue warnings. These warnings can be ignored.

Creating the C RPC Sample Server

- To create the server EXAMPLE
 - 1. Parametrize S-procedure CREATE-EXAMPLE-SERVER, if needed.

| Procedure Parameter | Description | Default |
|----------------------------|-------------------------------|-------------|
| EXP-SRV-LIB | C RPC Server examples library | EXP811.CSRV |

For more details, see also the procedure headers in the delivered job control.

Enter the following command:

/CALL-PROCEDURE *LIB(LIB=EXP811.CSRV,ELE=CREATE-EXAMPLE-SERVER)

2. Enter the following command:

This procedure calls the CPLUS Compiler to generate the corresponding object modules stored as L-elements in EXP-SRV-LIB (the default is EXP811.CSRV).

There is no need to link the object modules with the BS2000/OSD Common Runtime Environment (CRTE) library. The CRTE is loaded once dynamically in the corresponding worker task of the RPC server where the server program is executed. The C RPC example server corresponds with the delivered CALC and SQUARE COBOL clients.