CL/1 Server for MVS/TSO

Macintosh with CL/1 client

MS-DOS with CL/1 client
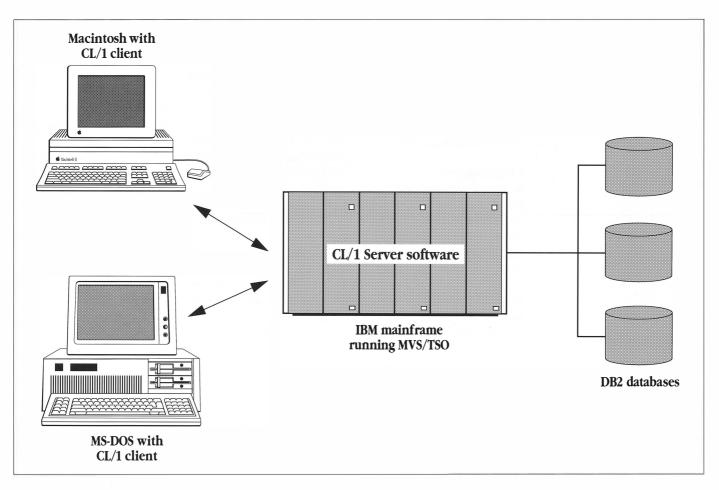
CL/1 Server software

IBM mainframe running MVS/TSO

DB2 databases

Overview

The CL/1™ Server for MVS/TSO is a networking software product that provides CL/1 access to IBM Database 2 (DB2) databases on an MVS/TSO host system. Running on the MVS/TSO host, the CL/1 Server works cooperatively with personal computer applications that support CL/1, such as spreadsheets, databases, and word processors running on Apple® Macintosh® computers and MS-DOS–compatible computers.

A total connectivity solution for MVS/TSO includes a client personal computer running an application with embedded CL/1 support, and an MVS/TSO host with the CL/1 Server. The CL/1 Server receives requests from the personal computer application, carries them out on MVS against DB2, and sends the desired data back to the application for desktop processing.

The CL/1 Server for MVS/TSO provides uniform support for CL/1-based applications, regardless of the type of personal computer used. It works with existing DB2 databases, operating under standard TSO and DB2 security. As a result, personal computer users receive seamless, transparent access to the DB2 data that they have been authorized to access. CL/1 also provides concurrent access to multiple DB2 subsystems from within one desktop application.

Features	*Benefits*
▶ Server operates as an MVS task under standard TSO username/password security	▶ Maintains the security and integrity of MVS, TSO, and DB2 systems. ▶ Eliminates the need for new system administration procedures for MVS, TSO, or DB2.
▶ Uniform support for CL/1 clients	▶ Allows one server to support all personal computers running CL/1-compatible applications, including Macintosh and MS-DOS applications.
▶ Standard MVS utilities for installation	▶ Makes installation quick and easy.
▶ Asynchronous operation	▶ Allows the user to continue other work while the CL/1 Server performs a connectivity request.
▶ Incremental compiler implementation	▶ Improves performance for repetitive requests. ▶ Reduces the client system processing load.
▶ Support for the Apple 3270 API (application program interface)	▶ Supports Apple's standard connectivity platform for communications between Macintosh computers and IBM mainframes.

Product Details

Database Support
▶ Provides access to DB2 databases
▶ Provides standard database naming, data types, system catalog structure, error codes, and buffer management

Client Support
▶ Provides uniform support for any application developed with CL/1 developer's toolkits, including Macintosh and MS-DOS applications, using a supported network

Network Support
▶ Provides 3270 datastream support; allows SNA or non-SNA connection

▶ The client must have the supported 3270 hardware and software to emulate a 3278-type device operating in Control Unit Terminal (CUT) mode:
—MacDFT™ software and either the Apple Coax/Twinax Card or the Apple TokenTalk™ NB Card for the Macintosh II family of systems
—PC 3270 entry-level emulator and supporting hardware under MS-DOS

Resource Usage
▶ 1 megabyte of disk storage
▶ 1-megabyte virtual machine for each active user
▶ Test program verifies correct installation and usage

Language Specifications
CL/1 is a complete language for describing connectivity tasks. The CL/1 language consists of these statement groups:
▶ Host connection statements: Establish and terminate a connection to a host system in the network
▶ Data manipulation statements: Offer complete, SQL-based data access to host databases
▶ Program structure statements: Support testing, looping, and procedure calls within a CL/1 program
▶ Output statements: Generate output messages from the CL/1 program, which are processed by the client application

System Requirements

To use the CL/1 Server for MVS/TSO, you'll need the following:
▶ Host environment: MVS/TSO

▶ Personal computer clients running CL/1-compatible Macintosh or MS-DOS applications

▶ Any supported version of DB2
▶ Appropriate networking hardware and software

Ordering Information

To order the CL/1 Server for MVS/TSO, contact:

Network Innovations Corporation
20863 Stevens Creek Blvd.
Cupertino, CA 95014
(408) 257-6800
AppleLink® D0978
Fax: (408) 257-7982

With your order, you'll receive:
► A 9-track, 1600-bpi tape containing the CL/1 Server software and the installation and configuration programs
► Installation manual
► 90 days of software technical support
► CL/1 Connectivity Language Description