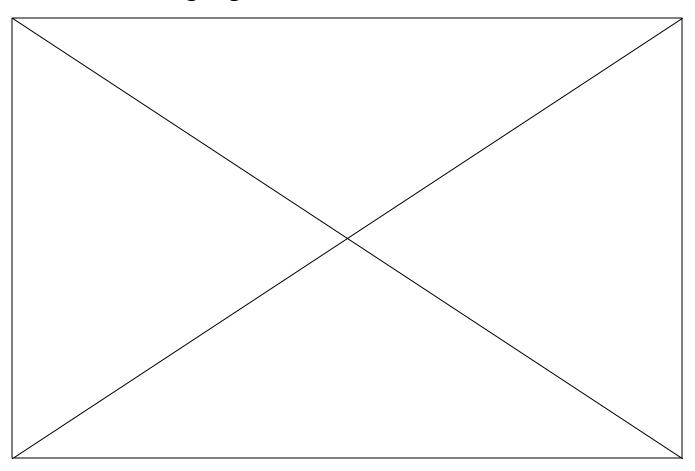# Data Access Language Server for MVS/TSO

Overview

The Data Access Language Server for MVS/TSO is a networking software product that provides Data Access Language access to IBM Database 2 (DB2) databases on an MVS/TSO host system. Running on the MVS/TSO host, the Data Access Language Server works cooperatively with personal computer applications that support Data Access Language, such as spreadsheets, databases, and query tools running on Apple® Macintosh® computers.

A total connectivity solution for MVS/TSO includes a client personal computer running an application with embedded Data Access Language support, and an MVS/TSO host with the Data Access Language Server. The Data Access Language 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 Data Access Language Server for MVS/TSO provides uniform support for Data Access Language-based applications. 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. Data Access Language 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 Data Access Language clients	· Allows one server to support all personal computers running Data Access Language-compatible Macintosh applications.
· Standard MVS utilities for installation	· Makes installation quick and easy.
· Asynchronous operation	· Returns program control to the Macintosh so the user can perform other tasks while the DAL server carries out the requested operation on the host.
· 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.
· Trace facility	· Facilitates debugging and system tuning.
· Interactive utility for testing Data Access Language program statements	· IDAL ensures proper connection, installation, and operation of host server.
· Stored procedures	· Minimizes network traffic by storing commonly executed procedures on the host, where they can be shared.
· Sample tables	· Makes developing and testing applications easier.
· Support for Macintosh computers connected via Apple's Coax/Twinax, TokenTalk® NB, and Serial NB cards, as well as Avatar's MacMainframe, DCA's MacIRMA, and TriData's Netway 1000/2000 products	· Applications can be run on Macintosh computers regardless of hardware connection to host.

System Requirements	To use the Data Access Language Server for MVS/TSO, you need the following:	· Host environment: MVS/XA version 2.2 or later running TSO · Macintosh computer clients running Data Access Language-compatible applications	· DB2 version 1.3 or later · Appropriate networking hardware and software
Product Details	**Database Support** · Provides access to DB2 databases, version 1.3 or later · Provides standard database naming, data types, system catalog structure, error codes, and buffer management **Client Support** · Provides uniform support for any application developed with Data Access Language Developer's Toolkit for the Macintosh 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, Apple Serial NB Card, or the Apple TokenTalk NB Card for the Macintosh II family of systems	–Avatar's MacMainframe, DCA's MacIRMA, and TriData's Netway 1000/2000 connectivity products –Asynchronous support to hosts equipped with an appropriate protocol converter **Resource Usage** · 1 megabyte of disk storage · 1 megabyte virtual machine for each active user · Test program verifies correct installation and usage

Data Access Language Server for MVS/TSO

Language Specifications	· Data Access Language is a complete language for describing connectivity tasks. The Data Access Language language consists of these statement groups: · Host connection statements, which establish and terminate a connection to a host system in the network, providing concurrent access to multiple hosts running Data Access Language servers	· Data manipulation statements, which offer complete ANSI standard level 1, SQL-based data access to host databases and files · Program structure statements, which support testing, looping, and procedure calls within a Data Access Language program	· Output statements, which generate output messages from the Data Access Language program; these messages are processed by the client application
Ordering Information	To order the Data Access Language Server for MVS/TSO, contact:	Apple Programmers and Developers Association (APDA §) Apple Computer, Inc. 20525 Mariani Avenue, M/S 33G Cupertino, CA 95014-6299 (800) 282-2732	
Data Access Language Server for MVS/TSO Order No. C0164LL/B	With your order, you receive: · A 9-track, 1600-bpi tape containing the Data Access Language Server software and the installation and configuration programs	· Data Access Language Installation and Operating Guide for MVS/TSO (Order No. M0936LL/A) · 90 days of free software support from Apple's Technical Answer Line. After the initial 90-day period, annual support contracts are available for a fee.	For information about licensing, contact: Apple Software licensing Apple Computer, Inc. 20525 Mariani Avenue, M/S 28B Cupertino, CA 95014 (408) 974-4667