

DYNA-STEP

TSO Dynamic STEPLIB Facility



Mainframe

Productivity

Solution



Streamline Your Data Center

DYNA-STEP™

Dynamic STEPLIB and Library Management

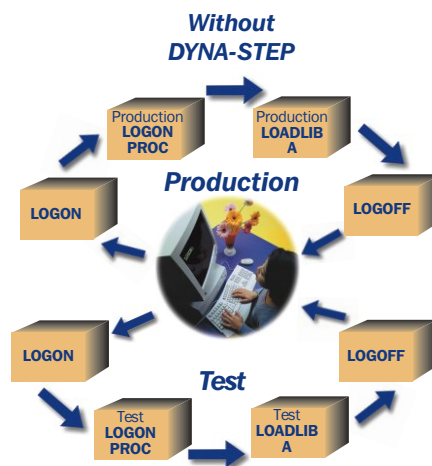
DYNA-STEP™ enables each TSO and ISPF user to dynamically allocate and free STEPLIB, ISPLIB, and other datasets anytime without repetitive LOGOFF and LOGON procedures. DYNA-STEP allows authorized users to:

- ◆ Expand or replace user's LOGON specified STEPLIB allocations, reducing the number of LOGON PROCs necessary, and the associated maintenance.
- ◆ Automate STEPLIB allocation through startup CLISTS and REXX Execs to provide concurrent access to multiple product versions such as DB2, and transparent access to both test and production systems from one ISPF session.
- ◆ Utilize separate STEPLIBs at TSO READY and in ISPF, and issue STEPLIB commands directly from the ISPF session, including support for separate STEPLIBs in each of the 32 ISPF split screens.
- ◆ Dynamically allocate up to 128 data sets to any DDNAME, including STEPLIB, ISPLIB, ISPLIB, ISPLIB, ISPTLIB, ISPSLIB, and more.
- ◆ Dynamically alter TSO/ISPF allocations and override standard library assignments to concurrently access multiple application versions across both test and production systems, to expedite testing and migration to production.
- ◆ Dynamically create new DDNAMEs and/or insert libraries at any position into an existing DDNAME concatenation.
- ◆ Execute "Push and Pop" commands allowing multiple STEPLIB concatenation sequences to be temporarily saved and restored anytime during the session.
- ◆ Allocate and free libraries containing TSO Command Processors using the CPLIB feature.

The datasets allocated using DYNA-STEP function as actual STEPLIB, ISPLIB, or system datasets, just as those specified in a user's TSO LOGON procedure. The CPLIB feature allows users to allocate and free libraries containing TSO Command Processors, providing a fast search path for heavily accessed Command Processors.

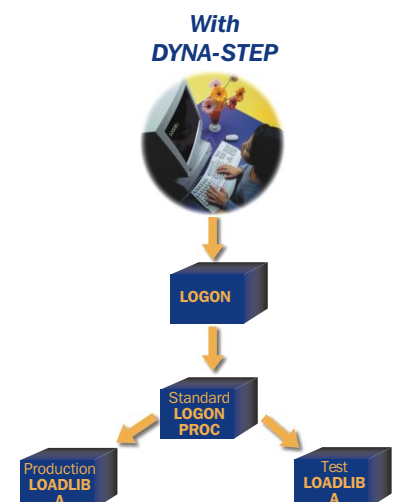
While some installations attempt to use ISPLIB LIBDEF to dynamically allocate load datasets, most applications use MVS loads or links, which are not supported by LIBDEFs. Data centers are then forced to maintain numerous lengthy LOGON PROCs, which allocate all possible STEPLIBs users MAY need. Every library concatenated in the LOGON PROC must be searched for each program, CLIST, or REXX EXEC. Multiplied by several users over many days, this repeated search results in TSO performance degradation, lost system resources, lost productivity, and thousands of wasted dollars.

With DYNA-STEP, allocation of STEPLIB datasets is removed from the LOGON procedure, allowing fewer and more efficient LOGON PROCs. The overall results include reduced user LOGON time, reduced library search time, and less maintenance associated with numerous LOGON PROCs. All this adds up to increased user service levels and significant dollar savings.



DYNA-STEP provides authorized users with efficient, direct access to multiple STEPLIBs, product versions, and systems. The result is increased user and machine productivity, adding up to significant dollar savings.

Data centers without DYNA-STEP are caught in a loop of repetitive LOGON/LOGOFF procedures, multiple LOGON PROCs, and both personal and machine performance degradation.



DYNA-STEP is... *Flexible*

DYNA-STEP provides the ability to either replace an existing STEPLIB environment or create a push down stack in front of or behind the existing allocations. DYNA-STEP retains library authorization, suppresses version messages, and includes unit and volume operands in case the specified dataset is uncataloged. Optional parameters allow the authorized user to create the perfect environment for maximum productivity. Options include:

- ◆ **ADD** - Add library allocations to an existing STEPLIB environment.
- ◆ **PUSH** - Create a push down stack of STEPLIBs, saving the old environment and allowing nested sets of allocations.
- ◆ **FRONT or BACK** - Specify additional STEPLIB allocations to be concatenated in front or in back of the existing environment.
- ◆ **PROP or NOPROP** - Specify whether dynamic STEPLIBs allocated are to be propagated to other ISPF screens.
- ◆ **LIST** - List names of STEPLIB datasets in the current concatenation.
- ◆ **DATASET** - Specify datasets that will replace the current STEPLIB environment.
- ◆ **AFTER, BEFORE and POS** - Specify the exact location in the concatenation to add a new dataset(s).
- ◆ **DELETE** - Remove only specific dataset(s) from a concatenation, eliminating the need to re-enter the entire concatenation without the specific dataset(s).
- ◆ **ADD DATASET** - Insert the dataset(s) allocated to the specified DDNAME into the specified concatenation.

DYNA-STEP is... *Easy to Use*

The DYNA-STEP command format is compatible with the TSO allocate command and can be issued from TSO READY or ISPF. Under ISPF, each logical screen may allocate separate STEPLIB datasets independently of other split screens or while at TSO READY.

Dynamically allocated datasets are searched in the order concatenated by DYNA-STEP. If the member is not found in the DYNA-STEP specified libraries, the usual search of LOGON specified STEPLIBS, LPALIB, and the LINKLIST datasets will be performed. The DYNA-STEP FREE command may be issued at any time to return the user to the LOGON default STEPLIB allocations.

DYNA-STEP is... *Secure*

DYNA-STEP allocates standard OS partitioned datasets for the STEPLIB and CPLIB functions, allowing complete compatibility with all popular security packages including CA-ACF2, CA-TOP SECRET, and RACF. This enables installations to restrict user access to libraries as STEPLIB or CPLIB datasets. The DYNA-STEP command runs as a TSO Command Processor, allowing the command limiting features of most security products to restrict user access to DYNA-STEP facilities.

DYNA-STEP Delivers Increased Productivity and Cost Savings!

Less Contention on STEPLIB Volumes

TSO STEPLIB directories are searched each time a TSO command is entered, causing high contention on the STEPLIB DASD volumes. DYNA-STEP reduces DASD search time and therefore, DASD contention.

Shorter Response Times

Program fetch is invoked each time a TSO command is entered, therefore the STEPLIB libraries are searched every time a user hits enter. DYNA-STEP reduces the size of the list to be searched, and the associated search time. The result is improved user response time and faster access to volumes for other users.

Reduction in System I/Os

TSO STEPLIBs use CPU cycles and I/O to search the STEPLIB directories for every command. DYNA-STEP reduces the I/O associated with long and repetitive DASD search operations.

Increased DB2 Flexibility

DYNA-STEP provides a flexible tool to expedite migration between DB2 test and production versions. Using DYNA-STEP, DBAs can STEPLIB to multiple DB2 systems, execute multiple DB2I sessions, and access different DB2 subsystems.

Improved User Service Levels

Users enjoy faster LOGON procedures, better response time, and overall better system performance, resulting in higher user satisfaction levels.



"DYNA-STEP is a flexibility tool essential to any MVS or DB2 installation. It eliminates constant LOGON / LOGOFF procedures and simplifies system maintenance. No data center should be without DYNA-STEP."

**--Vice President,
Citibank**



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TONE's commitment to quality products and service will be apparent to your IS organization. Let TONE assist you in realizing the benefits and savings your data center can enjoy with DYNA-STEP. Try it at no cost for 30 days in your installation and experience the difference!

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System Requirements: DYNA-STEP operates on IBM supported releases of OS/390 and z/OS through release 1.4, using JES2 or JES3.