

DYNA-STEP™

Dynamic STEPLIB and ISPF Library Management Solution

"DYNA-STEP is a flexibility tool essential to any z/OS and DB2 installation. It enables users to switch between different subsystems transparently to speed testing and expedite upgrades, while also saving system resources and enhancing user productivity. No data center should be without DYNA-STEP."

*- Data Center Director
Global Financial Corporation*



With DYNA-STEP, z/OS shops can rapidly deploy a TSOPLUS alternative that is transparent to their TSO and ISPF user communities, eliminating the need to retrain users, modify security policies, or disrupt busy operational activities.

Manage and Automate Dynamic Allocation of STEPLIBs and ISPF Libraries

DYNA-STEP is the premier solution to manage and automate dynamic allocation of STEPLIB and ISPF libraries to save time, reduce maintenance, and save system resources. Using DYNA-STEP, the TSO/ISPF configuration can be altered dynamically at any time to any new configuration, or to access any application or multiple applications within the users' ISPF session or at TSO Ready.

With DYNA-STEP, allocation of STEPLIB datasets is removed from the LOGON procedure, reducing the need to manually update and maintain numerous TSO Logon procedures, and eliminating repetitive LOGON and LOGOFF actions to switch between test and production environments or applications. The results include fewer and more efficient LOGON PROCs, reduced user LOGON time, and reduced library search time - which adds up to increased user service levels and significant dollar savings.

DYNA-STEP Cuts Costs and Increases User and System Productivity

DYNA-STEP is used in many large z/OS environments around the world to automate allocation of key STEPLIB and ISPF libraries, dramatically reducing system I/O and contention on STEPLIB volumes, and eliminating much of the overhead associated with TSO operations. Authorized DYNA-STEP users gain efficient, direct access to multiple STEPLIBs, product versions, ISPF libraries and DB2 subsystems, all without leaving their ISPF split screen session.

For z/OS shops striving to control resource consumption and boost efficiency, DYNA-STEP improves overall system performance, increases user productivity, and provides key benefits:

- Faster TSO LOGONS that save time and boost productivity
- Faster response times in most ISPF applications
- Less maintenance associated with numerous LOGON PROCs
- Expedited testing and application upgrade cycles
- Reduced system resource consumption
- Real Dollar Savings from improved user and system efficiency

DYNA-STEP Provides a Solid Alternative to Replace Unsupported Tools

DYNA-STEP provides immediate relief for TSOPLUS users with the AIA facility that transparently replaces the TSOPLUS On Demand Application (ODA) feature, as well as dynamic STEPLIB allocation capabilities that painlessly replace embedded TSOPLUS STEPLIBX allocations. Further, DYNA-STEP supports extended allocations and ISPF library management, and provides a seamless TSOPLUS transition experience through straightforward TSOPLUS migration aids that eliminate the need for manual conversions.

DYNA-STEP Delivers Extensive STEPLIB and ISPF Library Management Capabilities

DYNA-STEP™ enables each TSO and ISPF user to dynamically allocate and free STEPLIB, ISPxLIB, and other datasets at anytime. The datasets allocated using DYNA-STEP function as actual STEPLIB, ISPxLIB, or system datasets, just as those specified in users' TSO LOGON procedures. DYNA-STEP allows authorized users to:

- Expand or replace users' LOGON specified STEPLIB allocations.
- Automate STEPLIB allocation through startup CLISTS and REXX Execs to provide concurrent access to multiple product versions and transparent access to both test and production systems from one ISPF session.
- Dynamically allocate up to 128 datasets to any DDNAME, including STEPLIB, ISPLLIB, ISPPLIB, ISPMLIB, ISPTLIB, ISPSLIB, and more.
- Issue STEPLIB commands directly from the ISPF session, and allocate separate STEPLIBs in each of the 32 ISPF split screens independently of other split screens or TSO READY.
- Dynamically alter TSO/ISPF allocations and override standard library assignments to concurrently access multiple application versions across both test and production, 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.
- Issue the DYNA-STEP FREE command at any time to return the user to the LOGON default STEPLIB allocations.

The DYNA-STEP command format is compatible with the TSO allocate command, and 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 is performed.

DYNA-STEP ISPF Interface Speeds Management of Allocations and the ISPF Environment

The DYNA-STEP ISPF interface enables users to rapidly create and manage allocations through easy to use ISPF panel options that present a full screen display of current allocations in a TSO session, including STEPLIB. Using the visual interface, users can manipulate concatenations beyond the single execution of the DYNASTEP command, to modify allocations or perform ISPF functions on displayed datasets. Datasets within an allocation can be inserted, copied, moved or deleted.

When allocations are committed, the actual re-allocation is accomplished by internal execution of the DYNASTEP command. The DYNASTEP command options to be used when performing these re-allocations can be modified via a convenient Options display.

```
Options Help
-----
DYNASTEP 3.0.0 Data Set Re-allocation for ST          Row 1 to 4 of 4
COMMAND ===>          SCROLL=up/down
-----
Cm #S DDName Data Set Volume Unit Dep
-----
- STEPLIB P.DVS300.0A.LOAD WARELE SYBALLD01 SH
- STEPLIB P.DVS300.NAINT.LOAD WARELE SYBALLD01 SH
- STEPLIB P.DVS300.RELEASE.LOAD WARELE SYBALLD01 SH
-          ISPF READY LOGON
-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXX Bottom of Data XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```



DYNA-STEP users view and modify allocations through the convenient DYSISPF interface.

Test Multiple Software Versions Side by Side with the Unique DYNA-STEP RENT Command

DYNA-STEP enables users to concurrently run multiple copies of identically named reentrant load modules, each in a separate ISPF screen. Through this unique capability, users can significantly speed upgrades of key applications and tools, such as QMF, DB2 or SAS.

Simply adding the RENT keyword to existing DYNASTEP command invocations is all it takes to gain access to multiple copies of the same load modules from different libraries on different ISPF screens. Users can then easily test new releases and software versions side by side with current versions.

DYNA-STEP Application Initiation Assist Facility - AIA

The DYNA-STEP Application Invocation Assist (AIA) facility enables z/OS teams to define easy-to-use keywords that dynamically allocate and invoke specific application environments for authorized users. Users simply enter the DYNA-STEP AIA keyword to invoke their application environment.

Further, AIA streamlines global application environment changes, enabling z/OS teams to simply update their AIA definitions to invoke new application versions, without changes to keywords in use throughout the user community. As a result, user retraining is eliminated, operational disruption is minimized, and user productivity is retained across application changes and upgrades.

```

----- AIA management display ----- Row 1 to 17 of 17
COMMAND ==> | LOC          SCROLL ==> CSR
Set AIA Name Type Description
-----
BHG0510 PD5  DEFN  BHG 0510
BHG0511 PD5  DEFN  BHG 0511
BHG0514A PD5  DEFN  BHG 0514 CLIST
BHG0514B PD5  DEFN  BHG 0514 REXX
BHG0514C PD5  PROC  BHG0514 (CLIST)
BHG0514R PD5  EXEC  BHG0514R (REXX)
BHG0514 PD5  DEFN  BHG 0514
BHG0520 PD5  DEFN  BHG 0520
BHG0520 PD5  DEFN  BHG 0520
BHG0530 PD5  DEFN  LUNARC DYSISPF VERSION 3.1.0
BHG0531 PD5  EXEC  Description record
BHG0532 PD5  EXEC  Compare against the next data set in concatenation
PARMCLST PD5  PROC  Echo parameter (single word only)
PARMCRIO PD5  EXEC  Echo the entered parameter
SAPFLNR PD5  EXEC  UNCC(NEW)
SAPFLNR PD5  EXEC  UNCC(UPDATE)
-----
***** Bottom of Data *****
    
```

Additional security benefits are also realized, enabling z/OS teams to initiate and disable application access for users through the AIA definitions, without exposing application-specific libraries or definitions.

DYNA-STEP Options Deliver Maximum Flexibility

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. Numerous optional parameters allow authorized users to manage the environment for maximum productivity, and 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.
- AFTER, BEFORE and POS - Specify the exact location in the concatenation to add a new dataset(s).
- FILE - Dynamically allocate / alter a closed TSO DD statement allocation.
- PERSIST - Request that DYNA-STEP give each ISPF screen a unique allocation for the specified DD names.
- USECAT – Use the catalog to locate the data set, rather than relying on the previous allocation information.
- GENERIC - Allocate dataset(s) to a system specified DDNAME, (such as SYSnnnnn), and dynamically return that DDNAME as a variable in a CLIST or REXX EXEC.

DYNA-STEP LIBDEF Support

DYNA-STEP provides full LIBDEF support for ISPF-related allocations, enabling users to manage their ISPF-related DDnames such as ISPMLIB, ISPPLIB, etc. Further, standard 'setup' type CLISTs and REXX procedures can utilize all of DYNA-STEP's capabilities for setting up the entire environment (including ISPF elements, such as images, messages, panels, skeletons, and tables).

DYNA-STEP Saves System Resources

DYNA-STEP Reduces Contention

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.

DYNA-STEP Shortens Response Time

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.

DYNA-STEP Reduces System I/Os

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

DYNA-STEP Increases 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.

DYNA-STEP Improves Service Levels

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

DYNA-STEP Provides Full Security

DYNA-STEP allocates standard OS partitioned datasets for the STEPLIB 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 datasets. Further, all authorized code used by the DYNA-STEP SVC is located within the SVC to ensure security of DYNA-STEP functions. The DYNA-STEP Server option provides broader security by removing the SVC requirement entirely.

In addition, a SAF interface is invoked for all DYNA-STEP functions to validate that users are authorized to perform the DYNA-STEP functions requested, such as ADD and LIST. 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 is Fully Supported on all z/OS Releases and is SMP/E Compliant

DYNA-STEP is certified through a rigorous testing process, and supports the latest z/OS operating system releases. Further, TONE is an active member of IBM PartnerWorld for ISVs, and actively participates in the IBM System Z ISV Early Program, which enables TONE to fully test and certify DYNA-STEP on new IBM operating system software releases before they become generally available.

SMP/E-based compliant installation and maintenance is provided for DYNA-STEP, and the DYNAISPF load module can be utilized for installations that need to maintain the ISPEXITS module in the z/OS SMP/E CSI. In addition, the DYNAISPF interface supports multiple servers, enabling maintenance testing to occur without updates to the ISPEXITS load module.

About TONE SOFTWARE CORPORATION

TONE SOFTWARE CORPORATION is a high technology software development firm providing innovative enterprise-wide business computing solutions to Fortune 1000 companies around the world. Based in Anaheim, California, TONE SOFTWARE is a privately owned technology company that answers to customers, not shareholders. With a firm foundation of proven ability spanning more than three decades, TONE has built a reputation for delivering premier software solutions and exceptional customer service and support 24 hours a day, 365 days a year.

With a corporate focus on quality and service, TONE continues to develop, market, and support strategic solutions that address the critical needs of today's IT organizations in the areas of cross-platform output management, distributed systems management and automation, host system productivity tools, and telecommunications management.

TONE's commitment to quality products and service will benefit your IT organization. Let us work with you to meet the challenges facing your data center.

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