

# OS 2200 Productivity

Save Time and Money While Performing Important Database Reorgs

## I-QU PLUS-1

Designed to minimize production downtime when reorganizing DMS 2200 databases, I-QU PLUS-1 allows the Database Administrator to target individual database areas for reorganization. A selected area is reorganized without the necessity of linking to associated areas, thus reducing I/O and providing runtime savings of up to 80% over conventional methods.

### Database Maintenance Advantages

- Realize shorter database unload/reload times
- Do in-place global pointer changes when expanding number of allowed areas/pages
- Manipulate database pointers and keys stored in records
- Ignore set linkages during reload
- Save and restore pointers
- Cross-reference old record locations to new when correcting pointers
- Significantly reduce production downtime
- Always load database areas in page number sequence ... even for CALC records
- Easily add new set relationships
- Add new set pointers (owner/prior)
- Isolate reorganizations by area for speed
- Use built-in calc simulator for more efficient loads
- Minimize impact of cross-area designs
- Easily patch broken links
- Realize quicker reorganizations regardless of hierarchical levels

### Additional Benefits

- Access all Unisys supported file types
- Conversationally browse files and database structures
- Patch database areas, relational tables and files
- Prototype new applications
- Develop entire I-QU PLUS-1 applications

### Required Software

Any currently supported OS 2200 level with supplied Unisys software.

## I-QU REORG COMPOSER

I-QU ReorgComposer automatically generates I-QU PLUS-1 database reorganization code reducing development time by as much as 90%. A Windows® client program interacts with host component to examine a DMS 2200 schema file and performs a dialog with the Database Administrator to produce the generated code. During the dialog, the Database Administrator chooses recovery and verification options, reload strategy, file specifications, type of sorting, etc. The result is a complete runstream including I-QU PLUS-1 unload and reload programs with all the required utilities and ECL to accomplish the most complex of reorganizations, hands free.

I-QU ReorgComposer also contains features that analyze the impact of schema changes on program source libraries and automatically generate accurate shifting code when adding, removing, expanding or compacting data fields.

### Client Benefits

- Downloads schema related information from the host component
- Search for changing data field specifications
- Make data field specification changes
- Expand, compress, insert or remove data fields
- Specify date aging
- Retain field change specifications between sessions
- Automatically generate shifting logic when inserting/removing fields
- Calculate correct starting locations and lengths when shifting data
- Maintain dialog with database administrator regarding reorgs
- Generate all required I-QU PLUS-1 code and ECL
- Develop unload/ reload strategies to minimize downtime
- Include optional IRU/DMU code for backups and verification
- Allow site-specific alteration of generated code before reorg
- Upload generated code and runstream
- Search source libraries for code affected by database

### Host Features

- Extract schema information from host file
- Transfer extracted information to client

### Required Software

Any currently supported OS 2200 level with supplied Unisys software. The I-QU ReorgComposer client component requires any currently supported release of the Windows operating system.

# OS 2200 Productivity

Easy Ad Hoc Reporting from Any 2200 Source

## Q-LINK

Created to provide BIS users access to non-BIS data, Q-LINK operates outside of BIS, acting as a server that executes Q-LINK programs. BIS runs call a unique run function requesting that the server execute the program and return the data to BIS. Consequently, the Q-LINK program handles all data access independent of BIS.

Q-LINK's high-level language provides the BIS run writer all the flexibility necessary to access any 2200 data model. The language is easy to learn and boasts a command set that lends itself to highly structured and efficient code.

### Application Development Benefits

- Select multiple date formats, including those used in date arithmetic
- Use wildcard characters on IF statement comparisons
- Control case sensitivity on IF statement comparisons
- Shift characters to all upper or lower case
- Trim insignificant leading and trailing spaces from data
- Automatically detect overflow of numeric edit masks
- Dynamically assign files, free files, etc.
- Easily convert dates
- Abbreviate commands for quick development
- Develop in-line and procedural DO loops for highly structured code
- Easily code data and variable definitions
- Save programs in object form to secure source code

### Supported File Types

- SFS 2200 and PCIOS
- DMS 2200
- Direct I/O
- RDMS 2200
- BIS DTM
- SORT

### Required Software

Any currently supported OS 2200 level with supplied Unisys software.

## INFOQUEST

InfoQuest was developed with the end user truly in mind. Data is readily available to end users from any 2200 file source, without any programming required. Users select data items from lists of available items and determine how the data is to be presented. From a variety of easy-to-use options, requests can be tailored to sort the data, provide totals and subtotals, perform special calculations, stipulate custom formatting requirements and much, much more.

InfoQuest Client, a Windows program, interacts with a host component to build a Q-LINK request that, when executed by a Q-LINK server, retrieves data to be presented to the user in the format requested by the user. A host program is provided to maintain user registration, data views for user selection, etc.

### End User Benefits

- Control selection of InfoQuest applications, views and request activities
- Create and maintain reports
- Create and update files
- Present data items for selection
- Offer sort and subtotal options
- Allow selection of column
- Create and calculate derived items
- Add conditional logic for derived items
- Add headings and footers to reports
- Specify cross-foot calculations
- Customize column headings and column editing
- Select run options
- Enter data selection criteria
- Choose request run times
- View request results
- Maintain reports/files/requests

### Administration

- Maintain user and application registration
- Enforce off-line runtime security
- Generate and maintain views of user data
- Generate and maintain data access logic

### Required Software

Any currently supported OS 2200 level with supplied Unisys software. The InfoQuest Client component requires any currently supported release of the Windows operating system.