Chicago Interface Group, Inc.

FastLIST

ISPF User Guide

Release 12.0

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FastLIST 12.0

Chapter 1: Overview

This chapter contains:

- A conceptual explanation of FastLIST.
- A discussion of the FastLIST components.
- Using FastLIST to perform impact analysis.
- Usage scenarios.

What is FastLIST?

FastLIST is a programmer's workbench integrated with the CA-Endevor environment. FastLIST consists of five interrelated product components:

1. A simple-to-use ISPF front-end allowing for fast access to Endevor data; programmer functions such as editing elements and performing actions are accessible through a single ISPF panel.

2. Impact analysis facilities that are integrated with the ISPF front-end, available through batch utilities or accessible via Endevor processors.

3. Controls and customizable rule sets to prevent the introduction of duplicate elements into an incorrect Endevor inventory location.

4. Package processing integration, which allows you to build or re-use a package from the FastLIST front–end. This feature also provides seamless integration with CIG Package Utilities and Greenhouse products.

5. The ability to invoke the Endevor Text Search and Replace Function from the FastLIST front-end.

FastLIST is:

EASY to install,
EASY to implement, and
EASY to use.

Programmers can use the FastLIST ISPF interface to perform a variety of Endevor and non-Endevor functions including:

- Editing an Endevor element or PDS member
- Performing *where used* impact analysis
- Batch SCL generation
- Performing Endevor actions in either batch or foreground
- Report submission
- Package creation
- Text Search and Replace

FastLIST's easy to use front-end allows programmers to perform all of the above functions *from just a few panels*. FastLIST pop-up panels guide users through more advanced functions, such as performing date searches and "where used" CCID queries, and FastLIST CUA compliant pop-up panels make selecting various line actions and group actions quick and easy.

Figure 1.1 illustrates the easy-to-use FastLIST ISPF workbench. In the figure, a request to display a list of all programs which reference a copybook (i.e. an input component) called $TIME was issued.

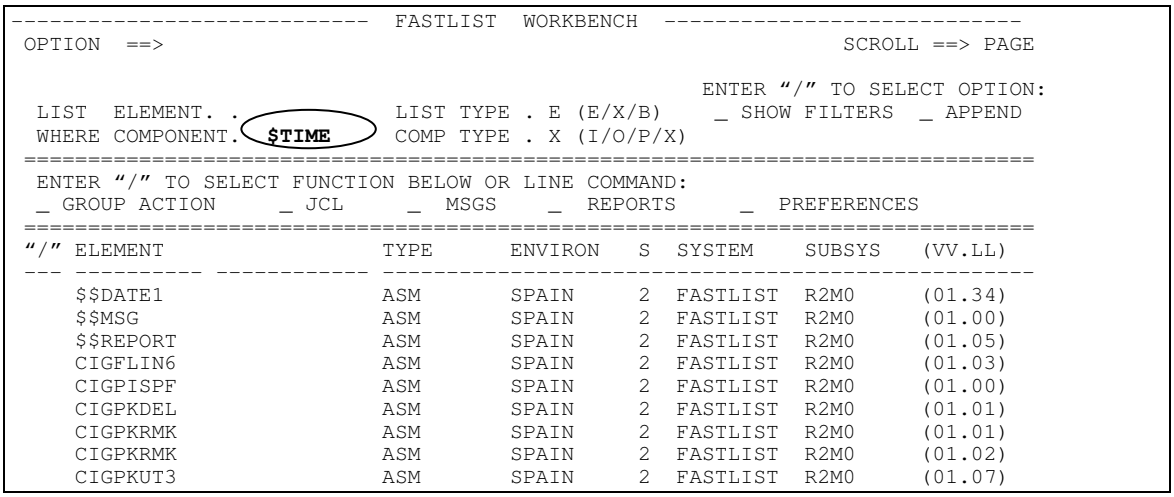


Figure 1.1
ISPF Interface

Single Panel Interface

The FastLIST Primary Panel consists of three areas: the query area, the action area, and the result area.

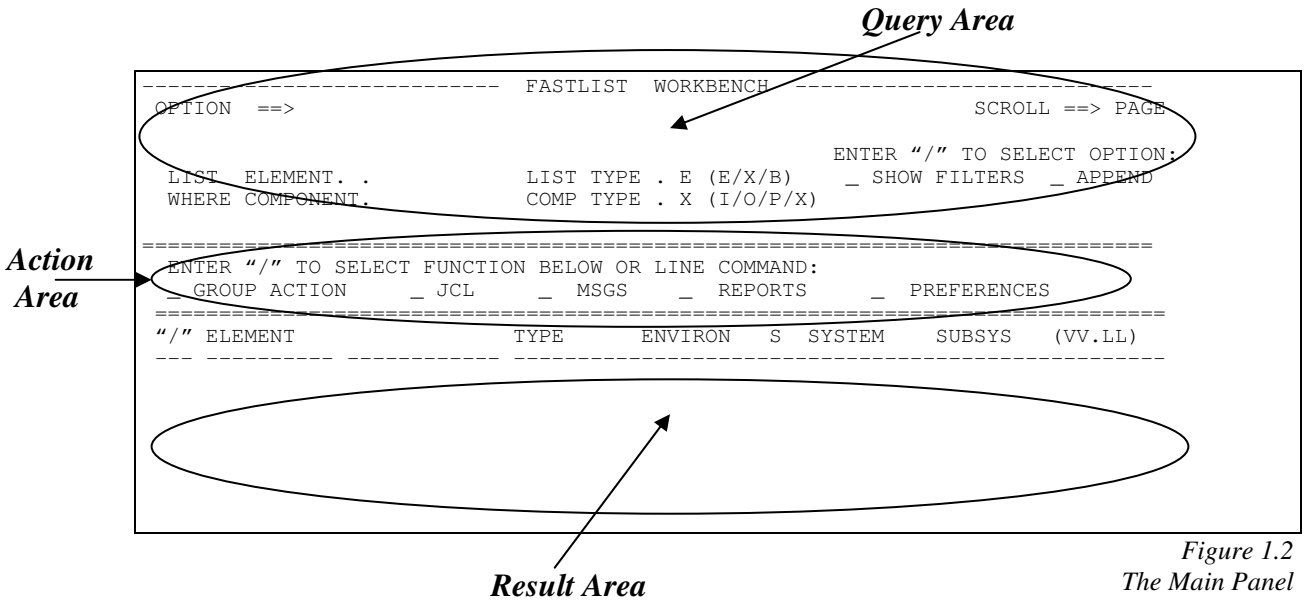


Figure 1.2
The Main Panel

Query Area — Search criteria are specified in the Query Area, while advanced searches (e.g., date ranges, CCID usage) are accessible via the Filter panel. The FastLIST ISPF interface combines the traditional batch "where used" capabilities with an interactive, real-time on line panel for list generation and action processing.

Result Area — The Result Area shows a list of all elements or PDS members that match your search criteria. Standard Endevor line commands and actions can be performed on elements listed in the Result Area using standard Endevor action characters, such as G for generate, A for add, or through the use of the CUA standard '/' selection character.

Action Area — The Action Area allows you to perform Group Mode Actions, such as package submission, view messages, submit reports, and modify JCL settings.

Impact Analysis

Impact analysis can be performed online via the FastLIST ISPF front-end. You will see an increase in overall system quality and reduction in the time required to make application changes through the impact analysis capabilities of FastLIST.

Impact Analysis and Configuration Management

Configuration management is the tracking of component relationships and the ability to make quality decisions based on data and tools that perform "where used" analysis. The goal of this analysis is that (1) the impact of a change is always known in advance, and (2) you always know what components make up the existing outputs.

A typical configuration management problem involves trying to determine the impact of an improvement in a macro or processor. Endevor provides information on input components, output components, and objects per element, as well as processor used by element. Through FastLIST you can access this data on-line, real-time, to make decisions and do planning.

Prior to making a change to a copybook you can perform an online query to identify all programs impacted by a change to the copybook. Your approach and possible decision in making the copybook change may be affected by the results of your analysis. FastLIST provides the ability to perform such impact analysis quickly, easily, and in an environment where the changes can be quickly made.

FastLIST's configuration management information is accessed through a set of functions built to work with Endevor's ACM data, CCID data, and user-defined object relationships, allowing the full potential of configuration management to be achieved.

There are three methods for accessing configuration data through FastLIST:

- First, access is provided through the FastLIST ISPF front-end.
- Second, the FLIST utility can be executed either as a stand-alone batch utility or integrated into an Endevor processor. (The FLIST utility is a high-speed replacement for the Endevor LIST action.) The FLIST utility also allows FastLIST configuration data to be written to a sequential file.
- Third, access is provided through a series of FastLIST configuration reports.

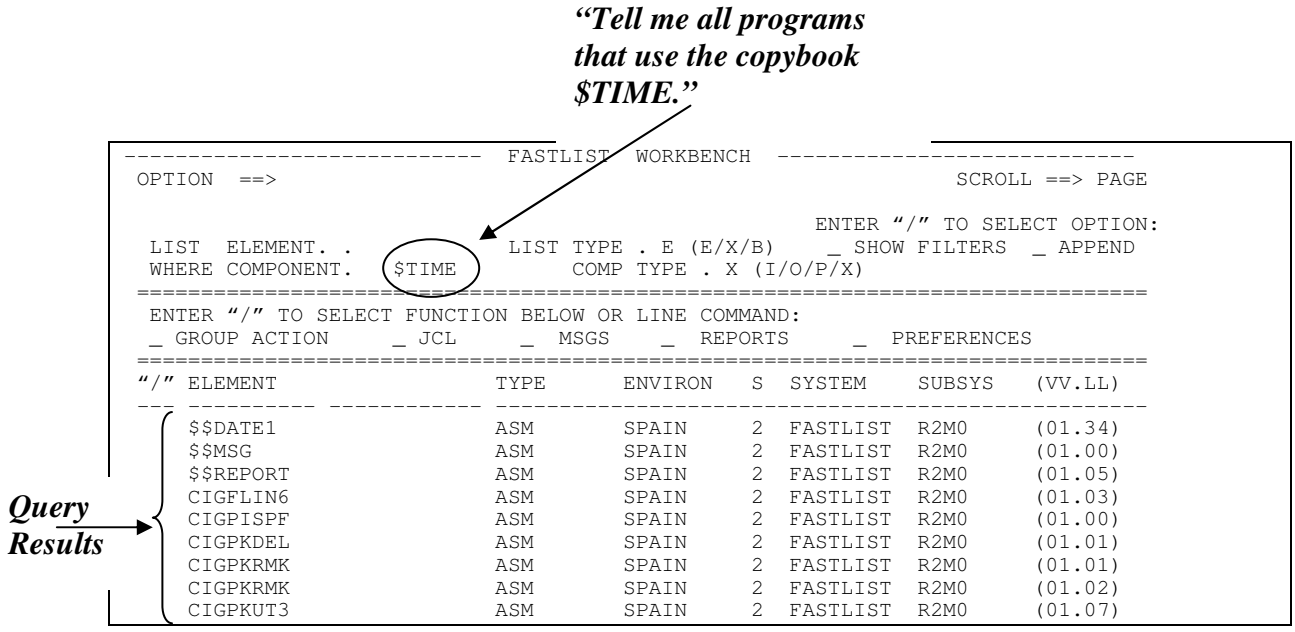


Figure 1.3
Impact analysis request

FastLIST's online access to configuration data is illustrated in Figure 1.3. In the example, a programmer has requested FastLIST to identify all programs which use a copybook called $TIME.

Indirect References

FastLIST provides the ability to identify indirect references between elements. The figure below shows that CUSTREC, a copybook included in PGMA source, has an indirect reference to the PGMA executable. Consequently, a change to CUSTREC will require that a new PGMA executable be created.

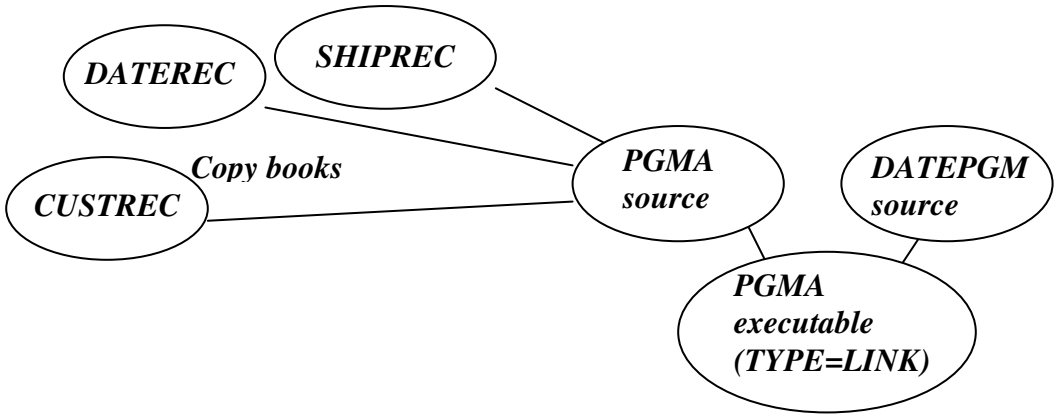


Figure 1.4
Indirect reference example

Some Endevor installations may define CUSTREC as a type COPYBOOK, PGMA source as a type COBOL, and the creation of PGMA executable through a type LINK.

The Indirect Option, available through the ISPF front-end or FLIST utility, allows the PGMA (TYPE=LINK) to be listed as one of the modules impacted by a change to the CUSTREC copybook.

Duplicate Element Prevention

Integrated with FastLIST is the ability to control "duplicate" elements. A duplicate element is an element that was accidentally introduced into an incorrect Endevor inventory location. For example, an element could be added to the incorrect subsystem or with the wrong type identifier. An element with the same name in an incorrect inventory location can be problematic. Such a mistake could result in an incorrect executable being moved into your production environment resulting in a serious production outage.

Controlling Duplicate Elements

Your environment is dynamic: it is different from other IT organizations and within your organization requirements and controls vary on an application-by-application basis. For one particular system, no duplicate element names may be allowed. In a second application system, you may allow duplicate names for certain element types. In a third system, you may need to allow duplicates within a particular subsystem.

The Duplicate Element Prevention feature allows you to define rules controlling the creation of elements with the same name (i.e., duplicate elements).

Duplicate Element Rule Set

The FastLIST Duplicate Element Control Facility allows you to define a rule set to control duplicate elements. The rule set is identified in the FastLIST Control File (CIGINI file) and is referenced when an Endevor action is performed. The rules are simple to specify and provide all the power you need to ensure your environment is secure from the introduction of duplicate element names. The following figure illustrates duplicate element rules:

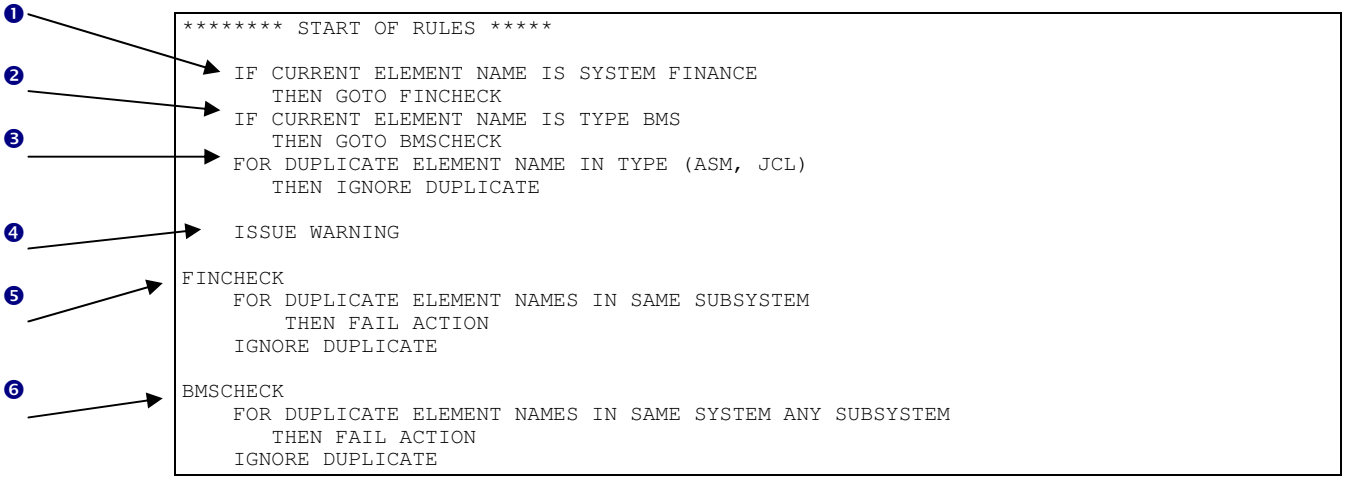


Figure 1.5. Duplicate Element Rules

❶ In statement 1, a check for elements being added to the FINANCE system is requested. For those elements, duplicate checking will be handled in the logic associated with the FINCHECK label.

❷ In statement 2, a check for elements of the BMS type is requested. Duplicate element checking will be handled in the logic associated with the BMSCHECK label.

❸ In statement 3, duplicate element names are ignored when the element type is either ASM or JCL.

❹ Statement 4 is the default: A warning will be issued when a duplicate element name is detected which does not match the criteria specified in the prior IF statements.

❺ The processing in the "Fincheck" Section states that any duplicate element in the same subsystem (across any system or type) will be rejected. If the condition is not met (i.e, same element in different subsystems) then the duplicate is ignored.

❻ The processing in the "BMScheck" section will fail the action if the same element name is found in the same system (and type), but in any subsystem. Duplicate names across systems will be ignored.

Usage Example: Conversion Project

Many IT organizations are now upgrading their legacy applications, a task that requires that a large number of programs be changed and extensive testing be performed. You may even establish a testing environment to ensure the changed applications run correctly.

If changes are being implemented by programmers and consultants unfamiliar with your Endevor configuration then you may experience elements with the same name being introduced into incorrect Endevor locations. This could result in a costly clean up. But, fortunately, with FastLIST's impact analysis capabilities, you will be able to quickly identify all components that were added into ENDEVOR during a specified date range. You can prevent further damage from occurring by utilizing duplicate element rules.

Refer to the *FastLIST Administrator Guide* for an explanation on implementing the FastLIST Duplicate Element Prevention feature.

FastLIST Usage Scenario #1: Identifying Changes in a Date Range

In this scenario, you can identify all elements that have changed during the range June 1 through August 1. In this example you would want to retrieve those elements into a partitioned dataset to be shipped for release distribution.

Step 1: Access the FILTERS panel.

To request a date range search, you first must access the FILTERS panel. From the FastLIST primary panel, type a '/' in the Show Filters field and press <Enter>. The enhanced ENDEVOR Filter Settings panel will be displayed (Figure 1.10), from which you can access the date range panel.

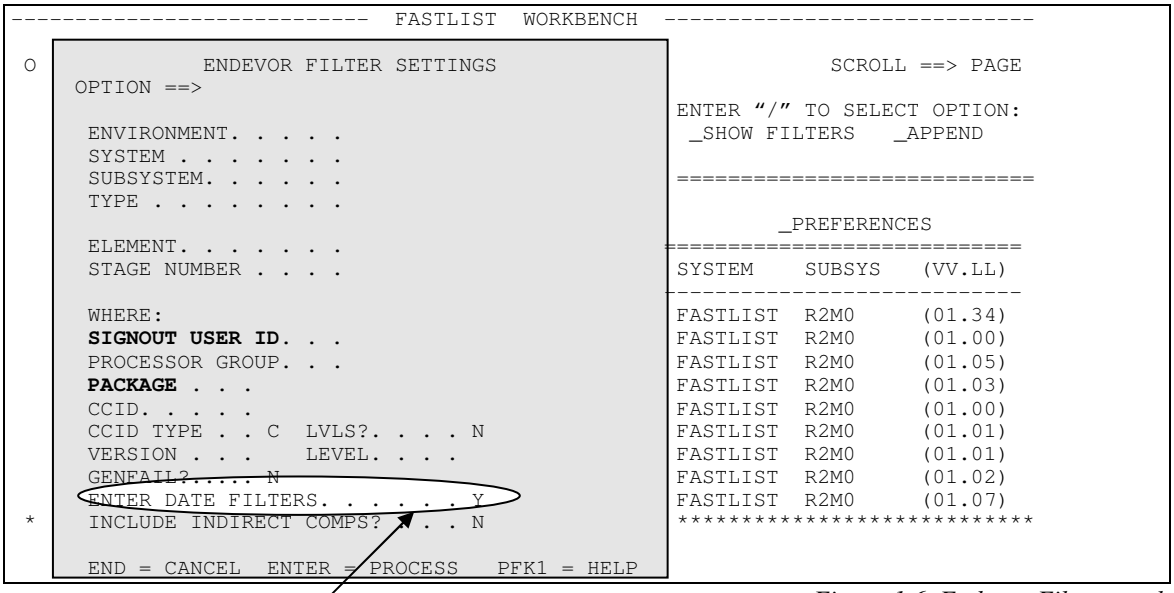


Figure 1.6 Endevor Filter panel

Accessing the Date Range Panel

Step 2: Specify a date range.

From the Date and Time Search pop-up panel, you would specify the date range.

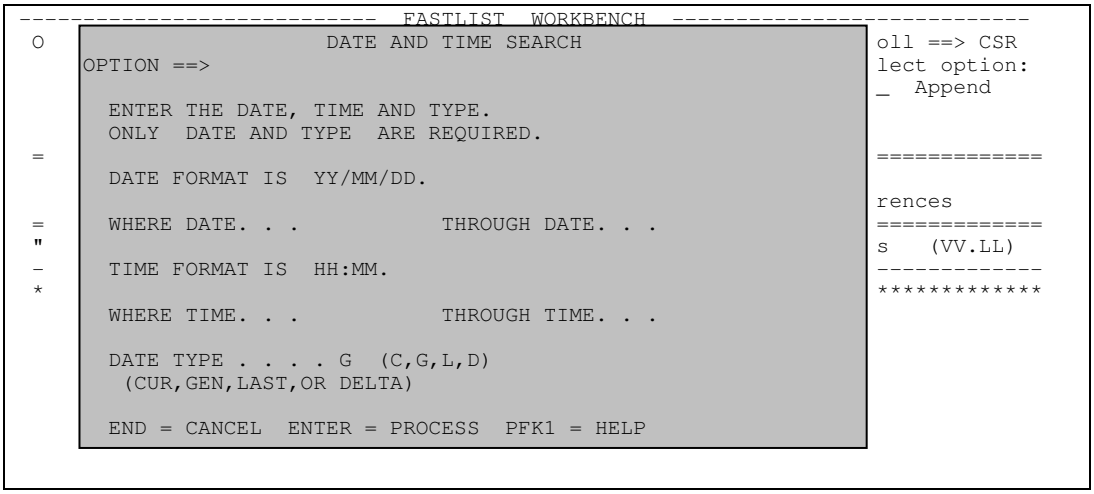


Figure 1.7
Date-Range Filter panel

Year 2000 Compliance:

FastLIST supports century windowing on date range queries and date processing. The ISPF and batch interfaces uses a 52-based windowing technique, meaning that all two-digit year fields below 52 will be processed as 21st century dates, and all two-digit year fields above 52 will be processed as 20th century dates.

Step 3: RETRIEVE listed programs

After initiating a date range search, only those programs that match the date range criteria will be shown in the result area on the FastLIST Main Panel.

To retrieve the programs, type a '/' in the Group Action Area, which will display the Group Mode Action panel. Select Option 3, Retrieve.

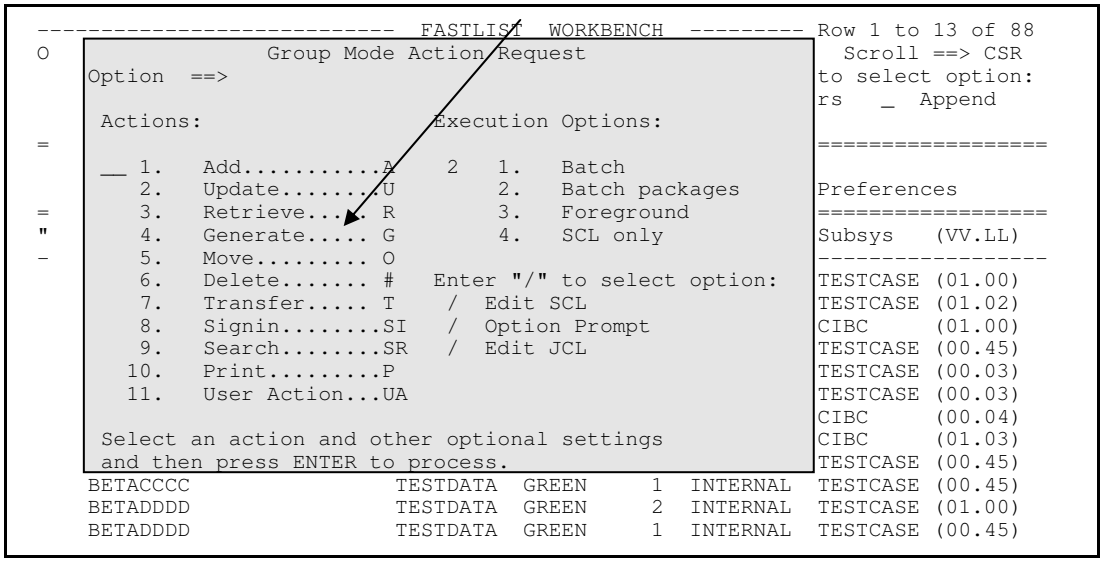


Figure 1.8
Retrieving listed programs

FastLIST provides the ability to execute actions via an ENDEVOR package. To utilize this feature select Execution option 2, Batch packages.

FastLIST Usage Scenario #2: Modifying Processors

When a company decides to upgrade to the newest version of the COBOL compiler, Endevor processors may need to be modified.

Step 1: Edit the processor.

In this example, the processor ASMCP must be modified to support the latest COBOL compiler.

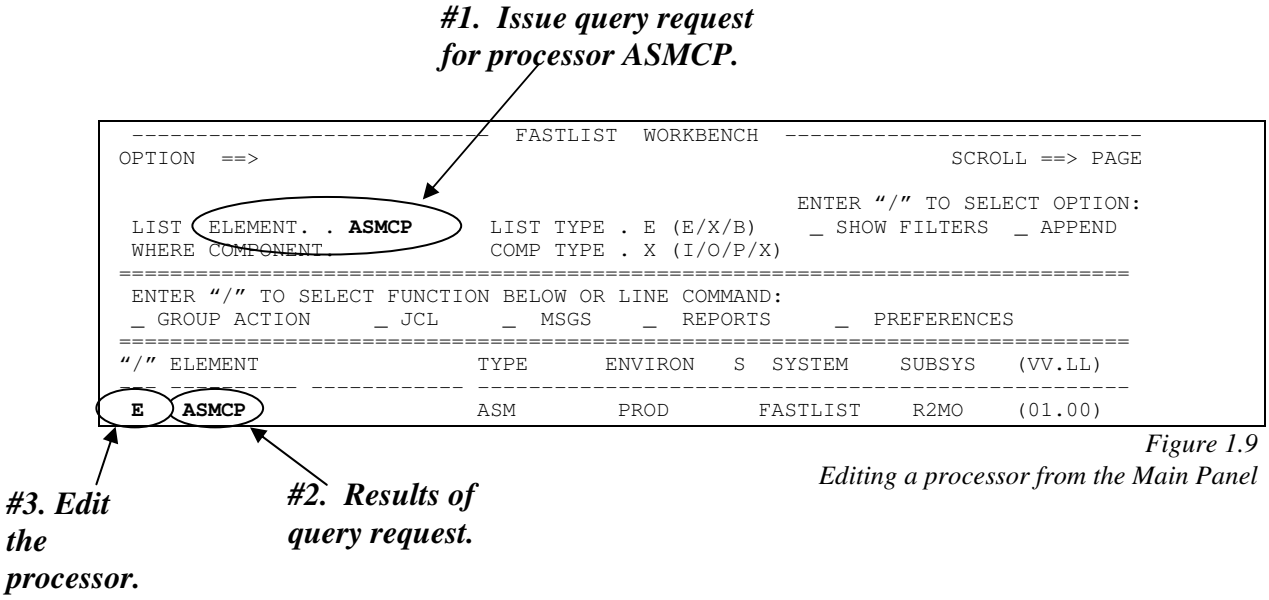


Figure 1.9
Editing a processor from the Main Panel

Step 2: Utilizing package processing, generate all programs that use the impacted processor.

After the processor has been edited, you can use the impact analysis capabilities of FastLIST to build and execute Endevor generate actions, via package processing, for all programs which use the changed processor.

To generate the affected programs, type a '/' in the Group Action Area of the main panel, which will display the Group Mode Action panel. Select Option 4, Generate, and Execution Option 2, Batch packages.

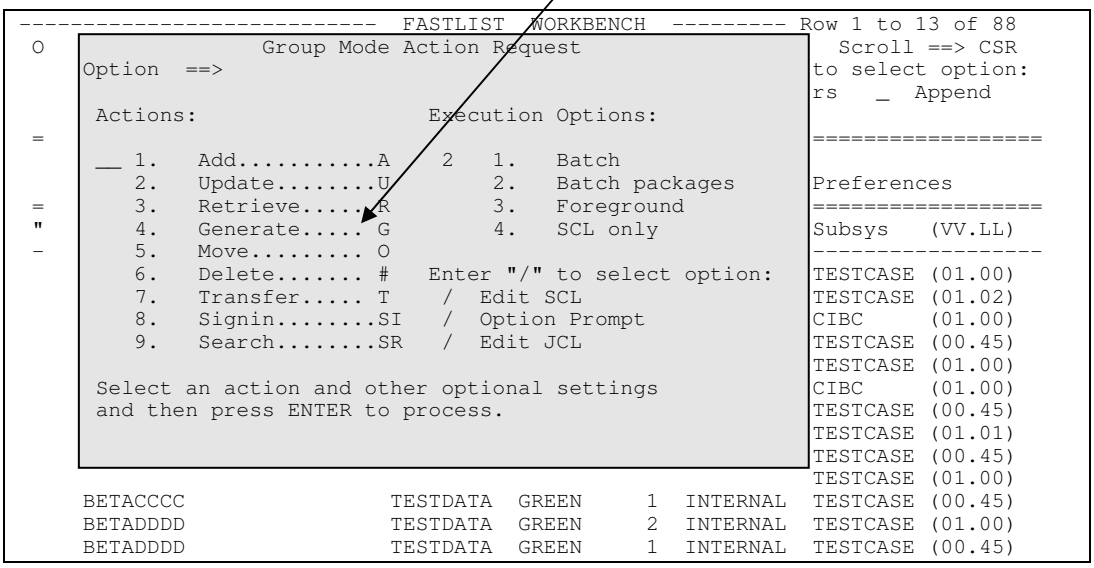


Figure 1.10

Retrieving listed programs via package processing

FastLIST Usage Scenario #3: Release Management Using CCIDs

In this scenario, a program correction was made to several programs earlier this year. In making these changes the CCID 'TEST002' was assigned to the programs being changed. You need to identify all programs that were assigned this CCID, even if additional changes (using different CCIDs) were made. FastLIST allows Delta level CCIDs to be searched in addition to current levels.

Step 1: Access the FILTERS panel.

To request a CCID search, you first must access the FILTERS panel. As shown below, the FILTERS panel is accessible by typing '/' in the Show Filters field on the FastLIST Main Panel. After pressing <Enter>, the FILTER SETTINGS panel will be displayed, where you can specify filtering options, such as CCID.

#1. Request to display the ENDEVOR Filter Settings panel.

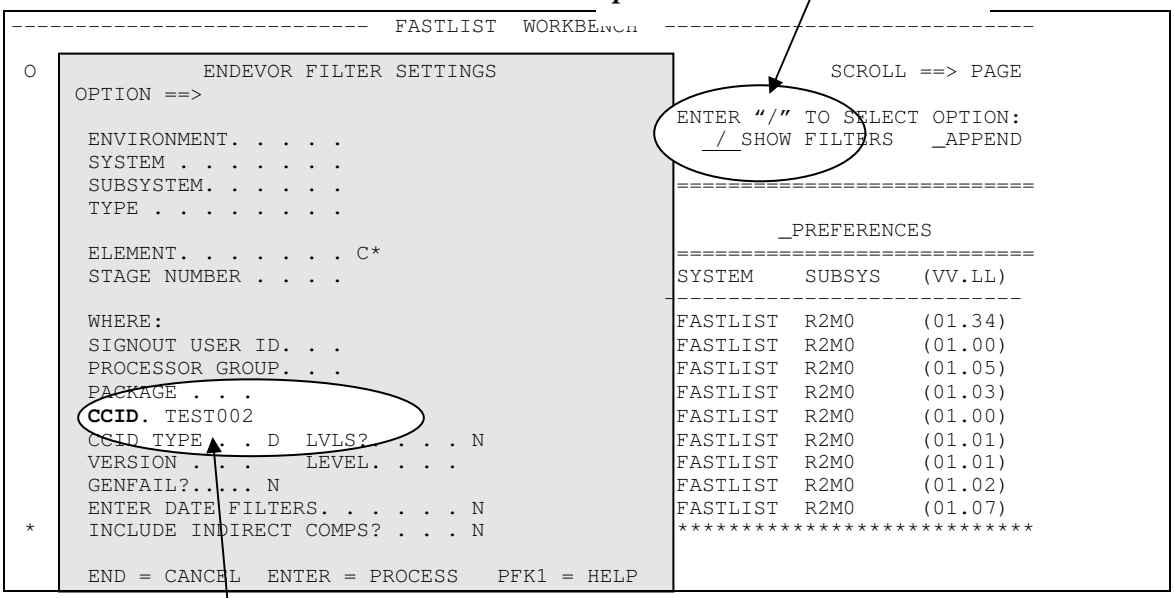


Figure 1.11 Endevor Filter Settings

#2. Show me all programs using CCID=TEST002, regardless of the level to which the change was made.

Step 2: Display a list of programs.

After specifying the CCID search criteria, those programs which have delta levels associated with TEST002 are displayed. CCID search criteria includes current levels, delta levels, last action, generate, retrieve or all of the above.

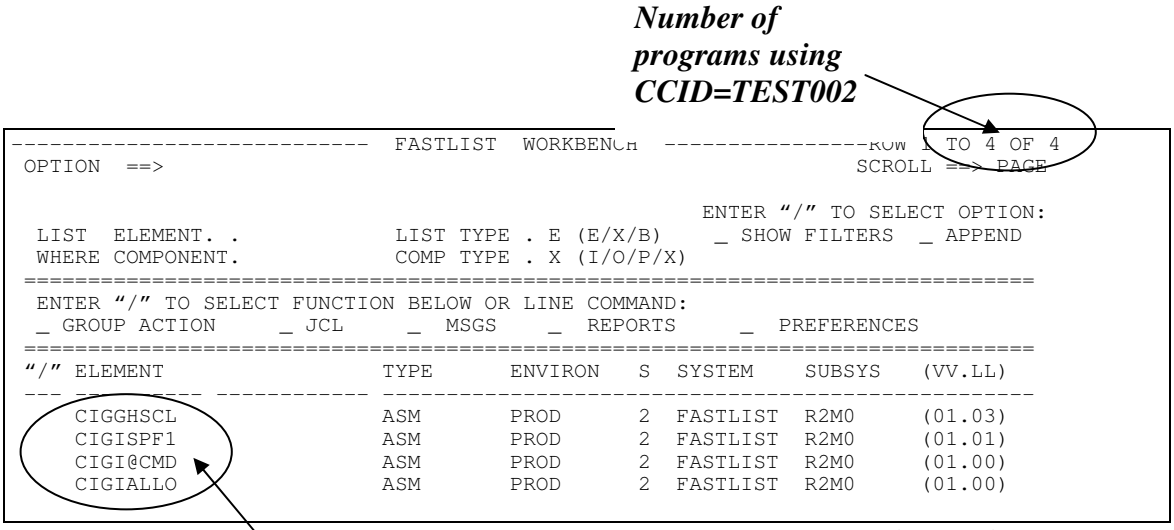


Figure 1.12 Displaying a list of programs.

Usage Scenario #4: Implementing mass changes through search and replace

In this scenario, we want to change all references to "$QSAM".

Step 1. Drive a list of all elements that contain references to $QSAM.

"Show me all components which reference $QSAM."

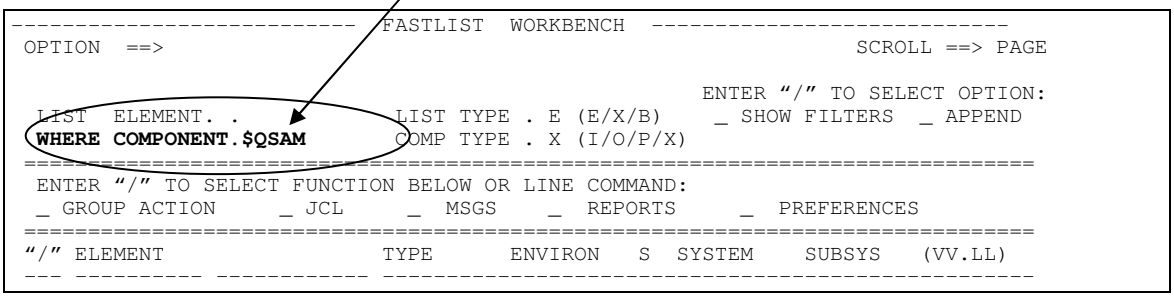


Figure 1.13 Implementing Mass Changes through Search and Replace

Step 2. Invoke the Group Mode Action Request panel.

Once FastLIST returns the list of components, invoke the Group Mode Action Request panel by entering a '/' in the Group Action field. Select Option 9, Search, to build search SCL for all references to $QSAM.

After pressing <Enter>, you will be prompted with an input panel for the search string, a replace string, and search attributes. Figure 1.18 below shows the Group Scan and Replace panel. After exiting this panel, a job will be submitted to perform the search.

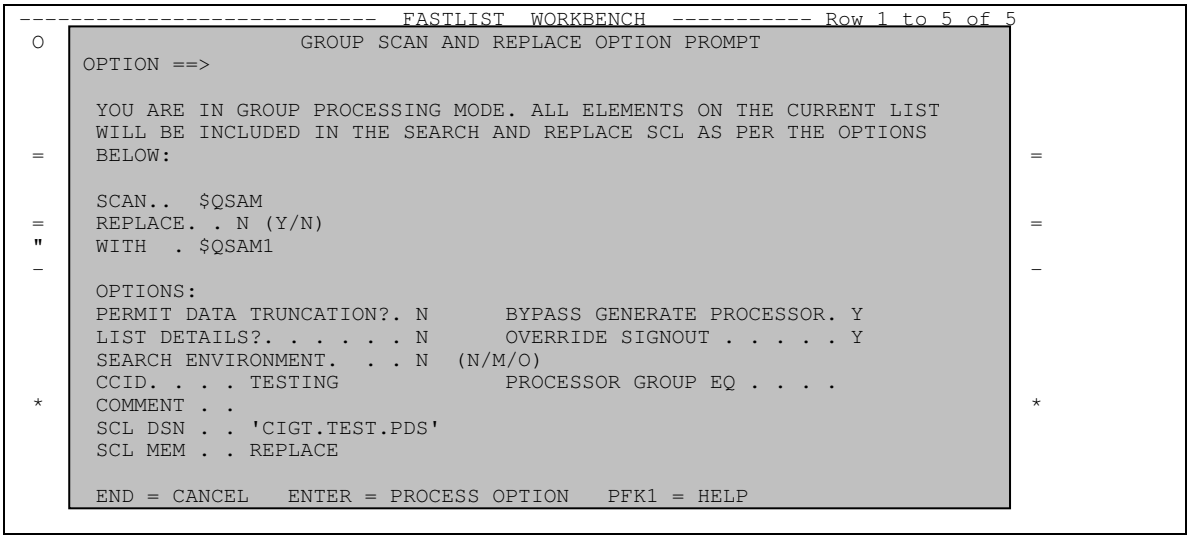


Figure 1.14 Group Scan and Replace Option Prompt

FastLIST 12.0

Chapter 2: The ISPF Interface

This chapter contains a detailed explanation of how to use the FastLIST ISPF front end, including how to:

- Produce a list and how to create SCL.
- Perform impact analysis.
- Use Line Edit commands to edit elements and other members.
- Build and submit FastLIST report requests.
- Use Action Line commands.
- Build a package.
- Build and submit Search and Replace commands.

How to Display Listings to the FastLIST ISPF Front end

ISPF Front end Capabilities

With the ISPF front end, you can:

1. Create a list of elements meeting your search criteria. FastLIST allows searches based on CCIDs, components, date and time stamps, or other element information.

2. Edit elements or members.

3. Perform Endevor line command actions and browse listings from a single panel.

4. Produce SCL from your list and submit it to Endevor or store it for later use.

5. Build and submit report requests.

6. Build and submit packages.

7. Build and submit search and replace commands

FastLIST ISPF functions interactively, so you see search results instantly from search criteria that has traditionally only been available through the Endevor batch LIST action. The FastLIST impact analysis screen accepts criteria such as "where CCID equals" and "where component equals." FastLIST also explicitly searches delta level CCIDs. Results from all of these searches are immediately written to the ISPF screen.

Panels

The ISPF front end has been designed as a workbench. All functions and prompts come from and return to the same main panel. This approach eliminates time consuming, multi-panel select and return sequences. The majority of the panels are pop-up panels that will prompt the user through an input process. When the input process is complete the panel disappears. In addition to the main panel, there are several CUA compliant panels that prompt the user with available options.

The Main Panel

The FastLIST Primary Panel consists of three areas:

- The Query Area
- The Action Area
- The Result Area

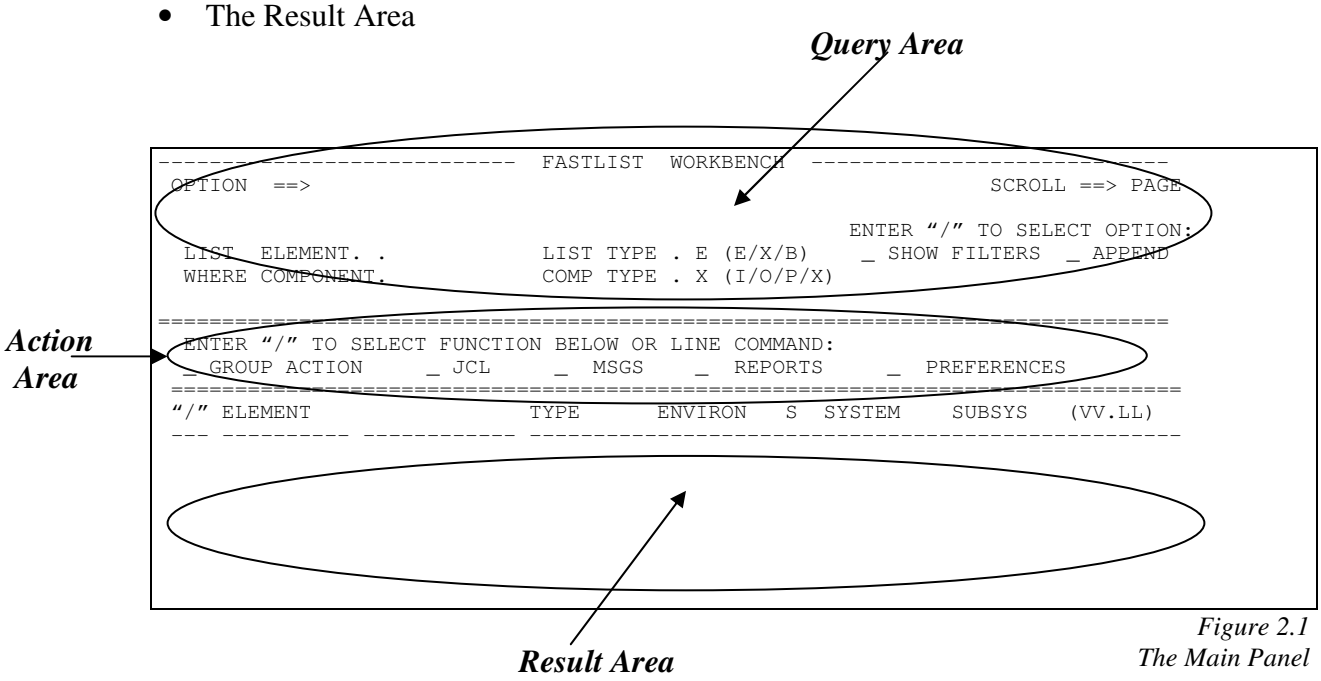


Figure 2.1
The Main Panel

Query Area — Search criteria are specified in the Query Area. Advanced searches (e.g., date ranges, CCID usage) are available via the pop-up filter panel. The FastLIST ISPF interface combines the traditional batch "where used" capabilities with an interactive, real-time online panel for list generation and action processing.

Action Area — The CUA compliant Action Area allows you to call up several additional pop-up panels that allow you to perform:

- Group Mode Actions, which allow you to perform standard Endevor actions in Batch or Foreground, and against a package.
- View and Edit the current settings for Endevor job cards and additional JCL variables.
- View a log of informational and error messages
- Request reports. The menu for reports will include the field and lines of code reports.
- Check or update user preferences.

Result Area

The Result Area shows a list of all elements or PDS members that match your search criteria. In addition to being able to perform standard Endevor line commands against elements listed in the Result Area, this area also supports the CUA '/' convention. To get a selection list of options, or to select an option, enter a '/' character in a field and press enter.

Main Panel Query Area

FastLIST performs an element search based on a combination of information from the Preferences Panel and the query area of the Main Panel. In addition, prior to list creation, the user will be prompted with the current Endevor inventory search settings. FastLIST will use all the criteria from Endevor Filter Setting Panel, as well as the criteria from the LIST section of the Preferences Panel to generate a list. The following is a display of the search section of the main ISPF panel and a description of each search related field.

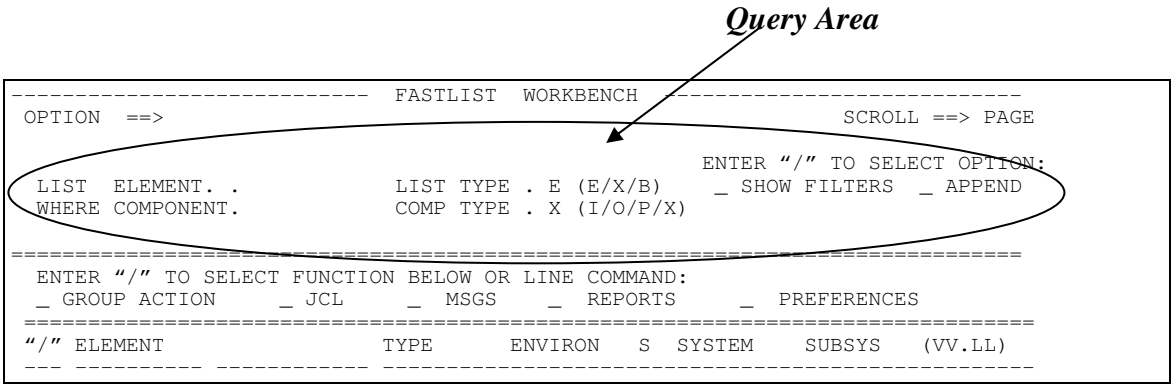


Figure 2.2
The Search Section

Field	**Description**
List Element	Element name or mask of 10 characters or fewer.
List Type	Endevor (E), External dataset (X), or Both (B)
Where Component	Component name of 10 characters or fewer. A component can be a copybook, macro, processor or Endevor object.
Comp Type	One character Component type. Choices are: **I** - Input Component (copybook or macro) **O** - Output Component **P** - Processor Component **X** - Endevor Object Comp type is related to 'where component' described above.

Show Filters	Accepts a '/'. Show Filters causes the Endevor Filter Settings panel to be displayed.
Append	Accepts a '/'. Append allows the user to either append elements to a current list or to generate a new list. If not selected, the existing list of elements appearing in the Result Area will be erased and any new elements found will be displayed. If no elements are found from the search, the list in the Result Area will be empty. If selected, any new elements generated from a search will be added to the existing list of elements in the Result Area.

Query Prompt Panels: ENDEVOR Filters

If the user requests an Endevor List Type from the main panel, the following prompt panel will be displayed. The fields in this panel are Endevor-specific.

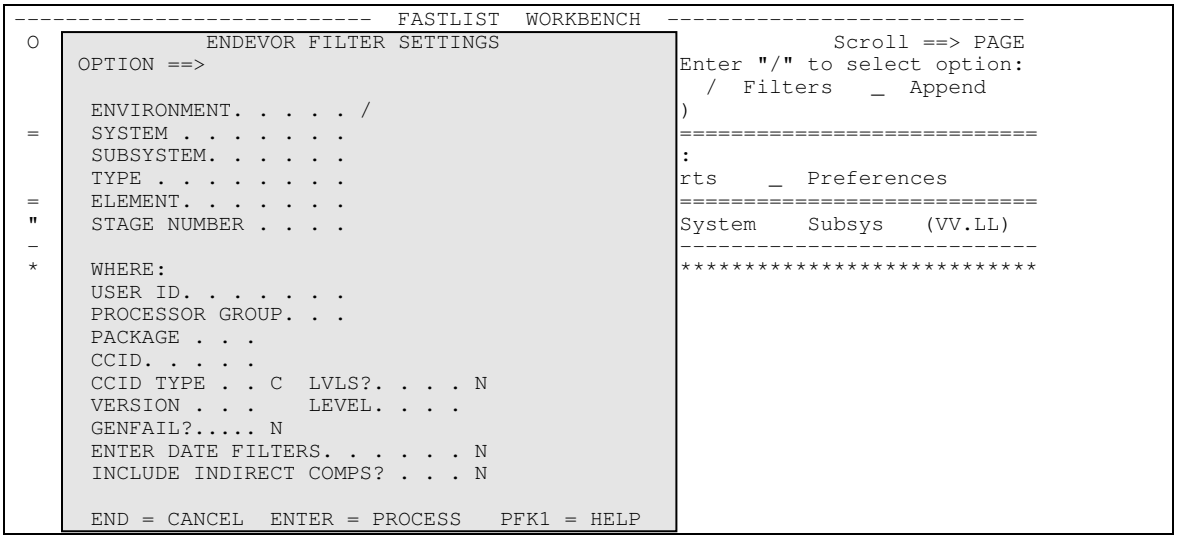


Figure 2.4 Endevor Filter Settings Panel.

From the Endevor Filter panel, if you enter a '/' in any of the inventory or processor group fields, you will be provided with an inventory selection table, shown below.

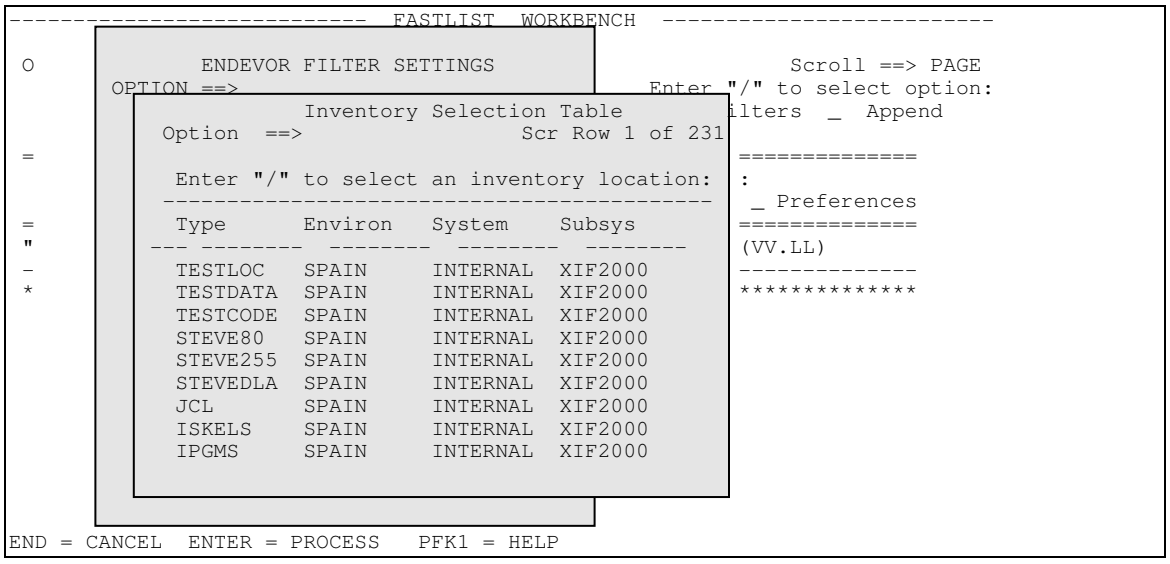


Figure 2.5 Endevor Inventory Selection Table

Environment	Endevor inventory location. Accepts 1-8 characters or '/' for prompt
System	Endevor inventory location. Accepts 1-8 characters or '/' for prompt
Subsystem	Endevor inventory location. Accepts 1-8 characters or '/' for prompt
Type	Endevor inventory location. Accepts 1-8 characters or '/' for prompt
Element	Endevor inventory location. Accepts 1-10 characters.
Stage number	Endevor inventory location. Stage number is limited to a 1, 2 or '*'.
Where User ID	Accepts 1-8 characters.
Processor Group	One to Eight character processor group name.
Package	Accepts up to 16 characters.
CCID	CCID associated with the element. CCID is related to the CCID type field.
CCID Type	One character CCID type. Valid values are:

C - Current CCID
R - Retrieve CCID
G - Generate CCID
L - Last CCID
D - Delta CCID
A - Any CCID

Delta CCID works the same even if you are using the Reverse Delta Endevor format.

Version	Current element version. Accepts values from 1-99.
Level	Current element level. Accepts values from 0-99.

Version and level accept either one or two character numeric values.

LVLS? Accepts a Y or N value.

Y" will cause all element levels that match the search criteria to be displayed on the main panel. "N" will cause only the current level to be displayed.

Dates? Accepts a Y or an N value.

If set to "Y", you will be prompted with the following options panel (Figure 2.6). Use this panel to enter "where date equals" search criteria. Use of this criterion requires specifying date and time fields and identifying the date/time type. The variables on this panel are reset to blanks and the DATES? field will be set to N every time you initialize FastLIST.

GenFail Accepts a Y or an N value.

"Y" will cause only those elements assigned the Generate Failed status to be displayed on the main panel. "N" will result in the search ignoring the Generate Failed status when performing the FastLIST database search.

Include Indirect Comps? Accepts a Y or an N value.

"Y" will cause components indirectly related to an element to be displayed on the main panel. "N" will cause only those elements that satisfy search criteria to be displayed on the main panel. See chapter 1 for a discussion of indirect components.

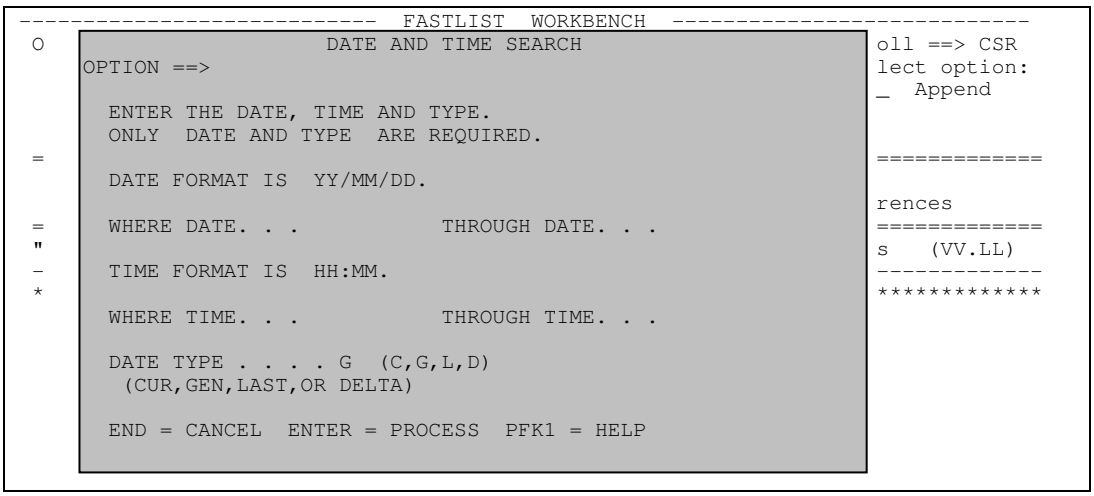


Figure 2.6
Where Date and Time Equals Panel

FastLIST supports century windowing on date range queries and date processing. The ISPF and batch interfaces have been modified to include a 52 based windowing technique, meaning that all two-digit year fields below 52 will be processed as 21st century dates, and all two-digit year fields above 52 will be processed as 20th century dates.

Field	Description
Date	The start of range date or only date. YY/MM/DD format.
Thrudate	Optional. End of date range. YY/MM/DD format.
Time	Optional start of range time or only time. HH:MM format.
Thrutime	Optional. End of date range. HH:MM format
Datetype	One character date type. The choices are as follows: G - Element Generate Date/Time D - Element DELTA Date/Time (includes current source) L - Last Element Modification Date/Time C - Current Date/Time for the element

Query Prompt Panel: External Datasets

If the user requests an External Dataset List Type (or a combination list of Endevor elements and External Dataset members) and the Filters option is selected on the main panel, then the following prompt panel will be displayed. Instead of seeing Endevor inventory information in the result area the dataset will be displayed. By selecting the Append option the content of multiple datasets can be displayed together. Note that Component searches and Endevor filter criteria do not apply to External Dataset lists.

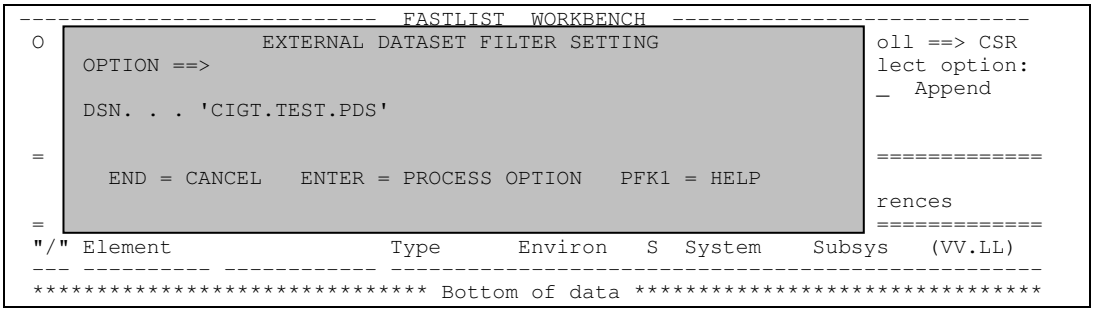


Figure 2.7
External Dataset Prompt Panel

Field	Description
Dsn	Dataset name for member list. If not in quotes, then the user id will be added to the front of the dataset name.

Result Area

The Area shows a list of all Endevor elements or PDS members that match your search criteria. Search criteria are specified in the Query Area of the main panel as well as in the Endevor Filter Setting and External Dataset Filter Setting panels.

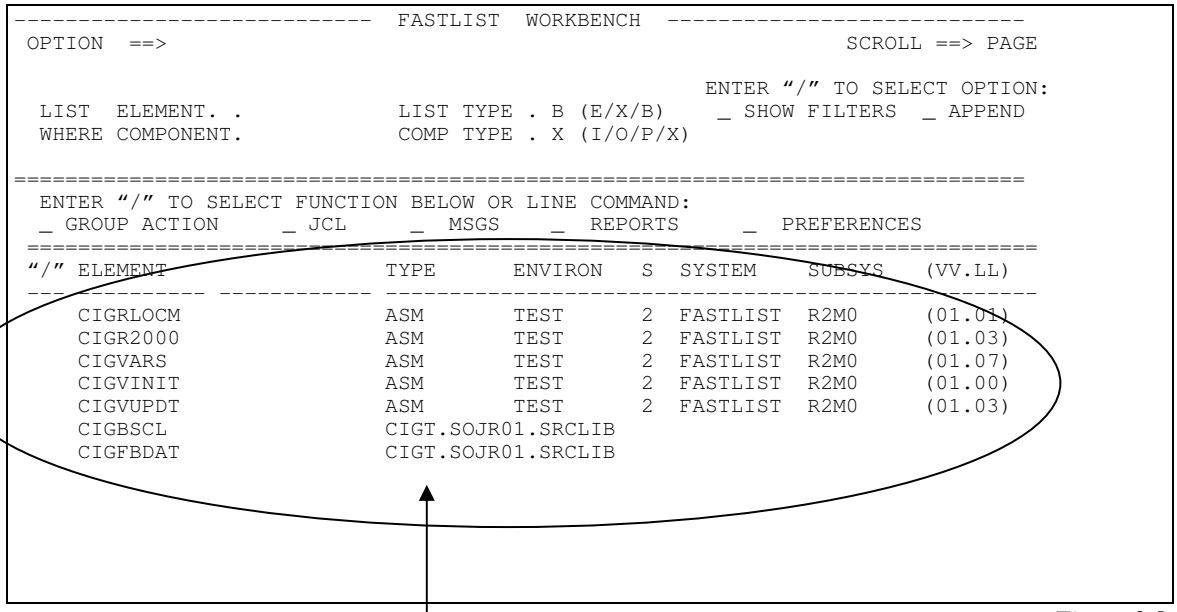


Figure 2.8
Result Area of the Main Panel

There are several line commands supported by FastLIST. The following is a brief description of each one.

PDS Line Commands

- E - Edit a PDS Member
- B - Browse a PDS Member.

ENDEVOR Display Line Commands - The standard set of Endevor Display line commands are supported.

- B - Browse Endevor element.
- S - Browse element summary of levels.
- H - Browse element history.
- C - Browse element changes
- M - Browse master record.
- BX - Browse component list.
- CX - Browse component changes.
- HX - Browse component history.
- S - Browse component level summary.
- BL - Browse Endevor listing.

Entering any of these line commands in the field to the far left of an element and pressing <Enter> will perform the desired command.

In addition to the ENDEVOR display functions, FastLIST supports the following actions at the element level:

- E - Edit an element
- A - Add
- U - Update
- G - Generate
- R - Retrieve
- # - Delete
- O - Move
- T - Transfer
- SI - Signin
- P - Print

These commands are invoked by selecting the element to process from the list with the appropriate Endevor action character, or by selecting the element with a '/' to display the Line Action Prompt panel. These actions can be processed in batch, foreground, or used to build SCL for later use. The actions can be used in any combination. Add and Update can be invoked on PDS members.

List Content Line Commands - There are two line commands used to control the scope of Group Actions.

- X - EXCLUDES the element from SCL processing.
- I - INCLUDES the element in SCL processing, resetting a previous EXCLUDE.

By default, Group Actions apply to the full content of the current list. The Exclude command prevents an element from being included in the Group Action processing.

Line Command Example: Editing an Element

The following figure (Figure 2.9) depicts a line command request to edit an element. After pressing <Enter>, you will be prompted with the line edit retrieve pop panel.

Step 1: Place an E in front of the Element to Edit.

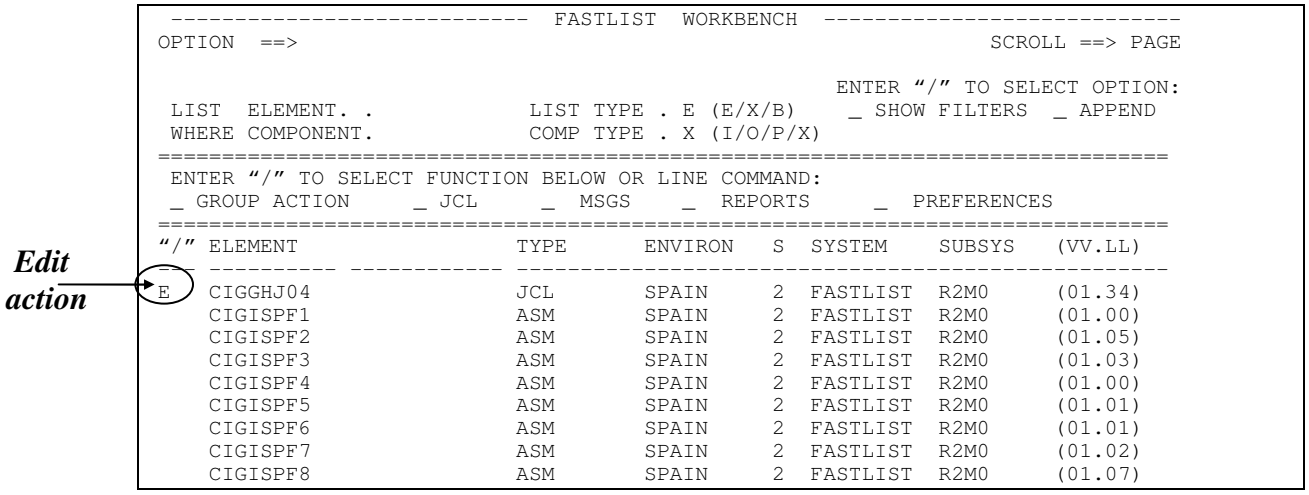


Figure 2.9
Edit Request Example

Step 2: Fill in Line Edit Retrieve Options

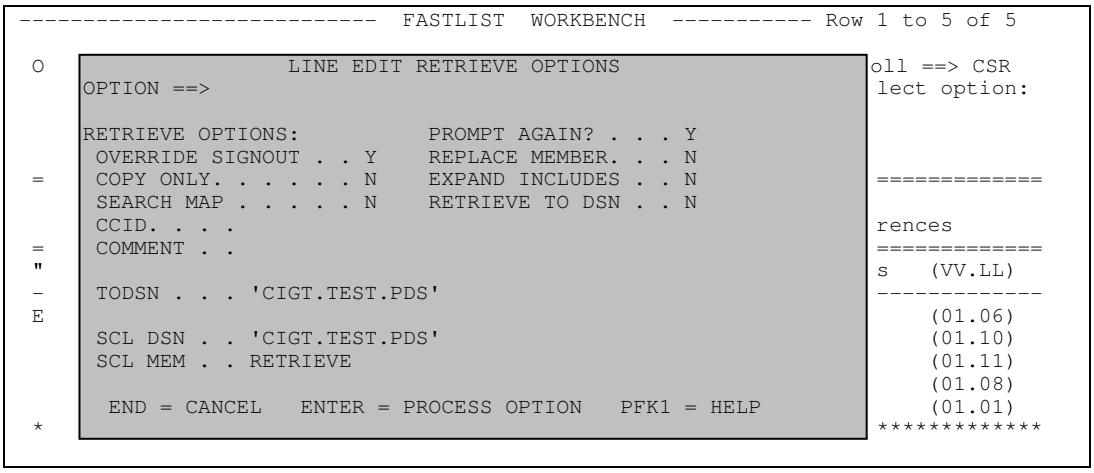


Figure 2.10
Line Edit Prompt

From this prompt panel, users can set various Endevor retrieve options. These options are fully documented in the CA-Endevor documentation. Users should set CCIDs and all other appropriate values for the retrieve.

One default option is to retrieve to a temporary dataset. If the user wants to retrieve to a permanent dataset, then they must fill in the TODSN value.

The SCL dataset name (DSN) and member name (MEM) must be filled in with valid information, since this SCL is used to perform the Endevor action.

Step 3: Edit the Element

Once all values are entered, type END. The element will be retrieved and presented to the user in edit mode, as seen in the following diagram.

```
CIGEDIT--- CIGGHJ04/SPAIN/FASTLIST/R2M0/JCL/2 (01.00)-------- COLUMNS 000 000
COMMAND ===>                                                  SCROLL ===> PAGE
****** **************************** Top of Data ******************************
000001 //**JOBCARD
000002 //**
000003 //* ------------------------------------------------------------------ *
000004 //* NAME:    CIGGHJ04                                                  *
000005 //* PURPOSE: RUN THE TRANSLATE AND ADD BACK UTILITY                    *
000006 //* ------------------------------------------------------------------ *
000007 //* MODIFY THE JCL IN THE FOLLOWING WAYS:                              *
000008 //*  1) ADD A  VALID JOB CARD                                          *
000009 //*  2) MAKE SURE THE STEPLIB POINTS TO THE CIGINI AND THE             *
000010 //*     CIGFEXEC LOADMODS. IF THESE MODULES ARE IN THE LINKLST         *
000011 //*     THEN A STEPLIB IS NOT NEEDED.                                  *
000012 //*  3) MODIFY DUNIT TO POINT TO A VALID UNIT VALUE FOR TEMPORARY      *
000013 //*     WORK FILES. IF YOU WANT TO SAVE THE ENDEVOR OR PDM SYNTAX      *
000014 //*     THEN MODIFY THE ALLOCATIONS TO POINT TO PERMANENT FILE.        *
000015 //* ------------------------------------------------------------------ *
000016 //STEP1    EXEC PGM=CIGFEXEC,PARM='CIGXLATE'
000017 //STEPLIB  DD  DSN=FLHQ1.FLHQ2.LOADLIB,DISP=SHR
000018 //* ------------------------------------------------------------------ *
000019 //* ENDEVOR SYNTAX DDNAME.                                             *
000020 //* BSTIPT01 IS THE DDNAME USED TO BUILD ENDEVOR SCL.                  *
000021 //* THE ADD ACTION  IS THE DEFAULT.                                    *
```

Figure 2.11
Element Edit Example

Once the user has completed the updates, type END to add the element back into Endevor. A CANCEL command will cancel the update. The following panel will be displayed prior to adding the element back.

Step 4: Save (Add back) the element into Endevor

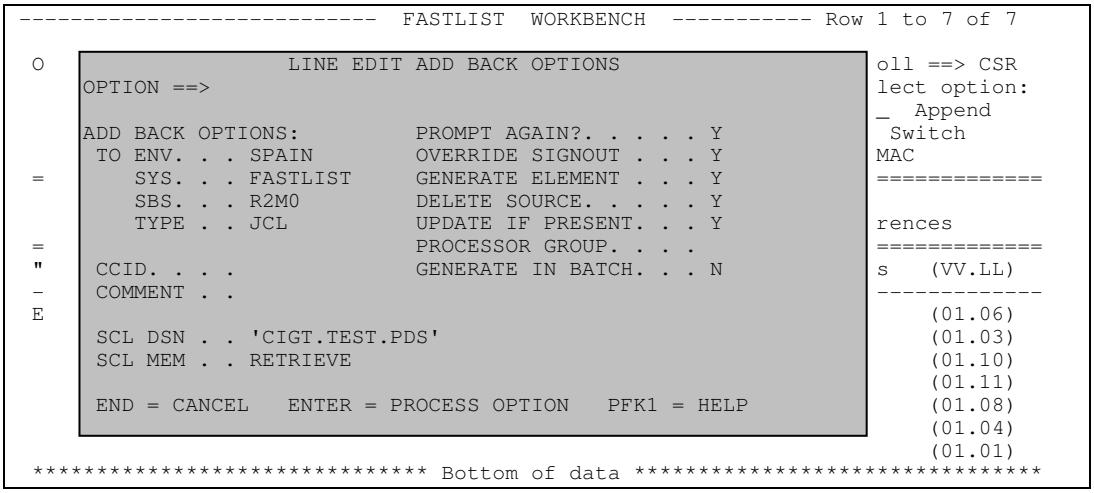


Figure 2.12
Add Back Prompt

The Endevor Add options are fully documented in the CA-Endevor documentation.

All FastLIST edit actions result in a foreground Add action in Endevor. The "GENERATE IN BATCH" option controls whether to submit the associated generate action separately as a batch job. After entering desired options, press <Enter> to process and return to the main panel. Pressing END at this panel will cancel the Add action completely.

The SCL Dataset name (DSN) and member name (MEM) must be filled in with valid information, since this SCL is used to perform the Endevor action.

Print Support

The Print Action

The Print action is a batch-only action. To perform print-type commands in the foreground, the user should use line commands 1 through 10 from the line command prompt panel, shown previously. The print command can be used with execute modes batch, SCL, and batch packages.

The prompt panel for the Print command is as follows:

```
----------------------------  FASTLIST  WORKBENCH  ---------------- Row 1 of 15
 O .------------------- PRINT COMMAND PROMPT --------------------. oll ==> PAGE
   | OPTION ==>                                                  | lect option:
   |                                                             | _  Append
   | Select one of the print options below and press enter:      |
 = |                                                             | =============
   |    __  B.   Print element source ( DEFAULT )                |
   |        M.   Print element master                            | rences
 = |        H.   Print element history                           | =============
 " |        S.   Print element summary                           | s   (VV.LL)
 - |        C.   Print element changes                           | -------------
   |        BX.  Print component list                            |     (01.00)
   |        HX.  Print component history                         |     (01.03)
   |        SX.  Print component summary                         |     (01.01)
   |        CX.  Print component changes                         |     (01.00)
   |                                                             |     (01.00)
   |  SCL Dsn . . 'CIGT.XIFR01.JCLLIB'                           |     (01.00)
   |  SCL Mem . . DDDDD                                          |     (01.00)
   |                                                             |     (01.01)
   |   End = Cancel   Enter = Process option   PFK1 = Help       |     (01.00)
   |                                                             |     (01.03)
   |                                                             |     (01.00)
   '-------------------------------------------------------------'     (01.00)
    ZTEST7                 ASM       TEST      1  SYSA      SUBA     (01.01)
```

Figure 2.13 Print command prompt panel

Other Line Command Examples:

In the example below, the user has requested Generate, Delete, Retrieve, Transfer, and Move actions on five elements, all from one panel. Each action will be processed in sequence. If any action encounters an error, processing of subsequent actions will be stopped and appropriate error messages will be displayed.

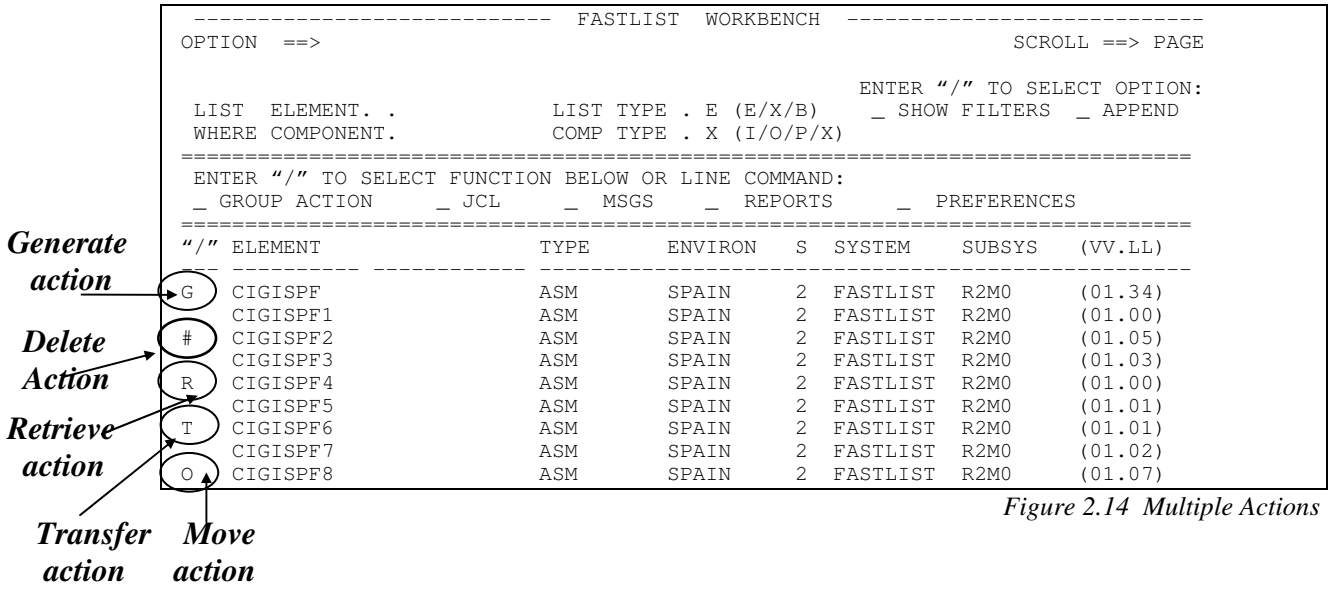


Figure 2.14 Multiple Actions

Browsing Endevor Listings

To browse an Endevor listing, the user enters a BL next to an element name on the table list. The following figure shows an example of a listing request.

Step 1: Specify Browse Listing on the line action area.

```
 ----------------------------  FASTLIST  WORKBENCH  ----------------------------
OPTION  ==>                                                    SCROLL ==> PAGE

                                                     ENTER "/" TO SELECT OPTION:
 LIST  ELEMENT. .            LIST TYPE . E (E/X/B)    _ SHOW FILTERS  _ APPEND
 WHERE COMPONENT.            COMP TYPE . X (I/O/P/X)
================================================================================
 ENTER "/" TO SELECT FUNCTION BELOW OR LINE COMMAND:
 _ GROUP ACTION     _ JCL     _  MSGS    _  REPORTS     _  PREFERENCES
================================================================================
"/" ELEMENT                 TYPE      ENVIRON   S  SYSTEM    SUBSYS   (VV.LL)
--- ---------- ------------ ----------------------------------------------------
BL  CIGISPF                 ASM       SPAIN     2  FASTLIST  R2M0     (01.34)
    CIGISPF1                ASM       SPAIN     2  FASTLIST  R2M0     (01.00)
    CIGISPF2                ASM       SPAIN     2  FASTLIST  R2M0     (01.05)
    CIGISPF3                ASM       SPAIN     2  FASTLIST  R2M0     (01.03)
    CIGISPF4                ASM       SPAIN     2  FASTLIST  R2M0     (01.00)
    CIGISPF5                ASM       SPAIN     2  FASTLIST  R2M0     (01.01)
    CIGISPF6                ASM       SPAIN     2  FASTLIST  R2M0     (01.01)
    CIGISPF7                ASM       SPAIN     2  FASTLIST  R2M0     (01.02)
    CIGISPF8                ASM       SPAIN     2  FASTLIST  R2M0     (01.07)
```

Figure 2.15 Example of Browse Listing Request

If you have coded your processor to monitor the listing as an output component, the system will query the FastLIST database for an output component that is a listing. If a listing component type is sent back, then the dataset associated with the component record will be used. If the listing is not monitored, then you will be prompted to enter in an Endevor dataset name as in Figure 2.15.

Compressed listings stored in CA-Endevor E-Lib datasets cannot be viewed through this facility.

Step 2: Specify the Endevor Listing Dataset

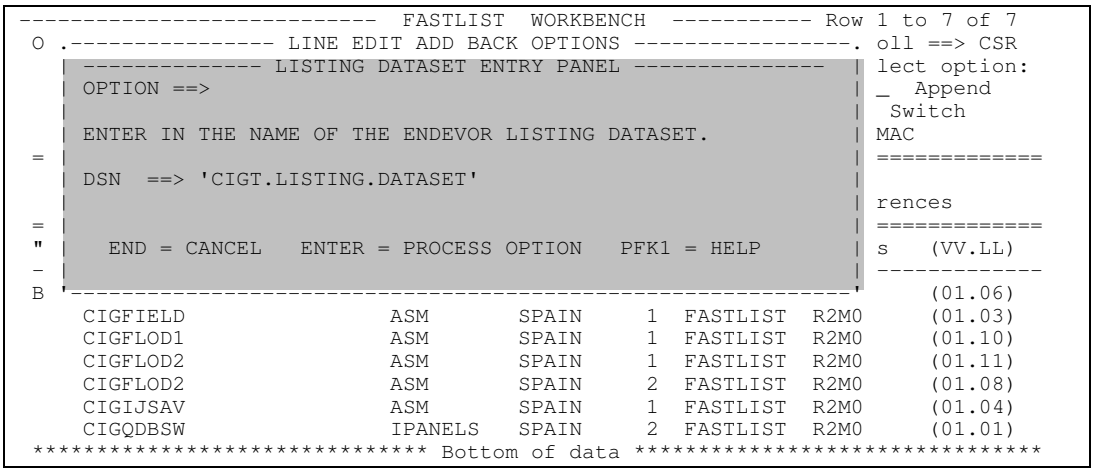


Figure 2.16 Listing Dataset Entry Panel

This panel is processed somewhat differently than the other dataset prompt panels. Like the other panels, the system will append the user id in front of the dataset, if there are no quotes. However, the system will not attempt to allocate or validate the file, because the dataset is usually owned by Endevor and not available to non-Endevor access.

The system will take this dataset name and access the listing through an Endevor print action. The result of the action will be displayed in a standard ISPF browse session. When done with the listing, press END to return to the main FastLIST menu.

Action Area: Performing Endevor Group Actions

In addition to being able to perform all major Endevor actions against individual elements listed in the Result Area, you can also perform Group actions, by typing a '/' in the Group Action field as shown below.

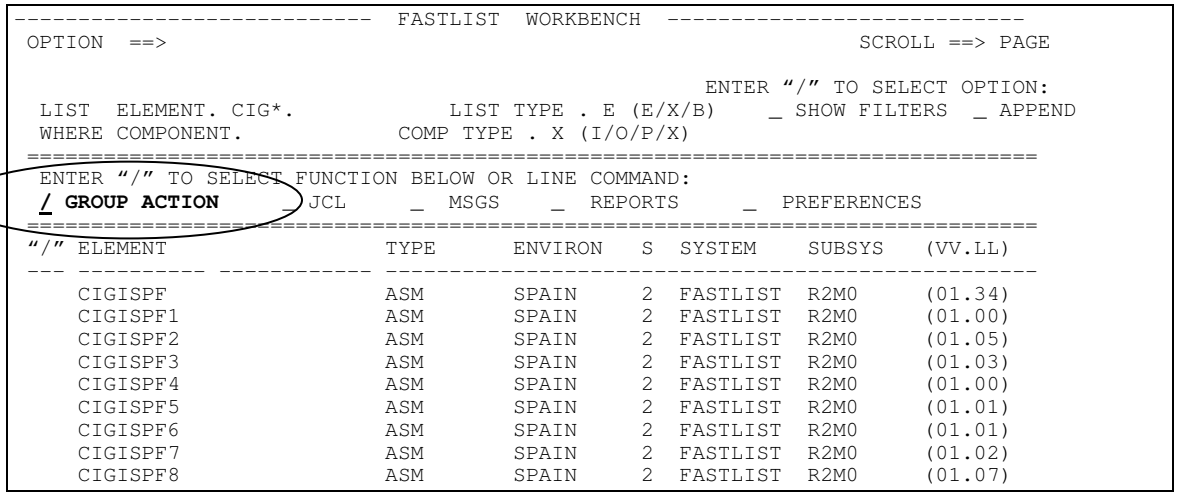


Figure 2.17 Endevor Group Actions

Example: Generate Actions

When the user selects the Generate command in the group action field, the following prompt panel is displayed. There are some special functions on the generate panel that should be pointed out. The set copyback location option will allow the user to specify a target location for copyback. If the user specifies COPY BACK = Y, and they specify SET COPYBACK LOC = Y, then the system will override the current inventory values for the elements.

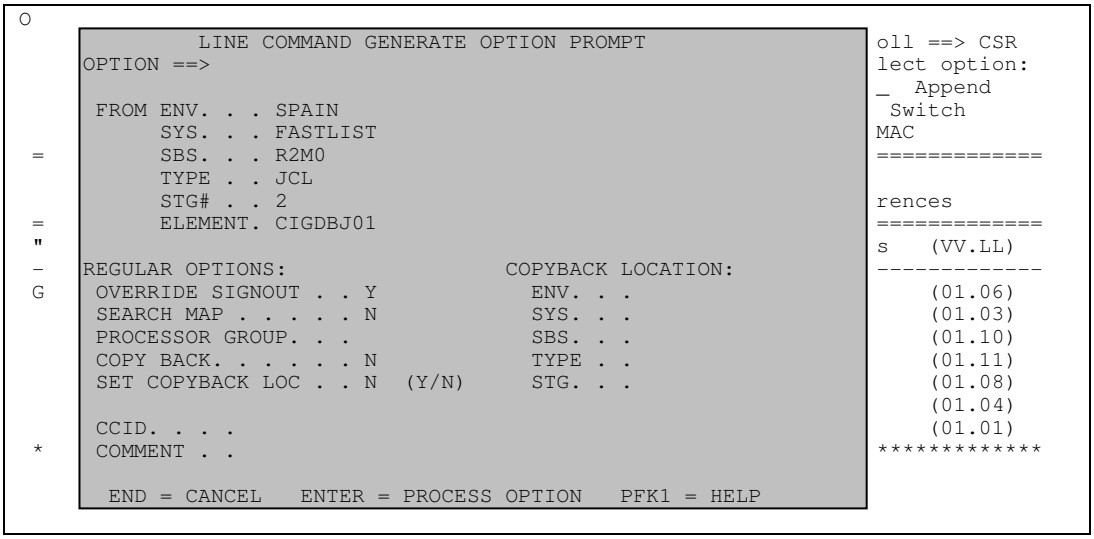


Figure 2.18 Explanation of Copyback Feature

Prior to displaying the panel, the system, subsystem, and type fields will always be cleared. It is advised that you not use these fields unless generating all elements of the same type and the target inventory definitions change lower in the map. A typical usage of this feature would be to create a list of elements that use a macro/copybook. Once that list is available, you would request a Generate with copyback, setting the location to stage 1 in the test regions.

User Action Support

The User Action

The purpose of the User Action is to extend FastLIST to support user-built functionality. Once a list of Endevor elements has been built, the users can enter the name of a user function (an ISPF skeleton name) as provided by their systems administrator. The model User Action skeleton is called CIGUSER0. This skeleton has no functionality, is it used only as a model. Examples of User Action processing could include FDELETE, FLIST, FLOAD, FSYNC, element lists and more.

The User Action is supported only in Batch mode. If the User Action is selected then FastLIST automatically sets the execution mode to batch, regardless of the prompt panel setting.

The prompt panel for the User Action command is as follows:

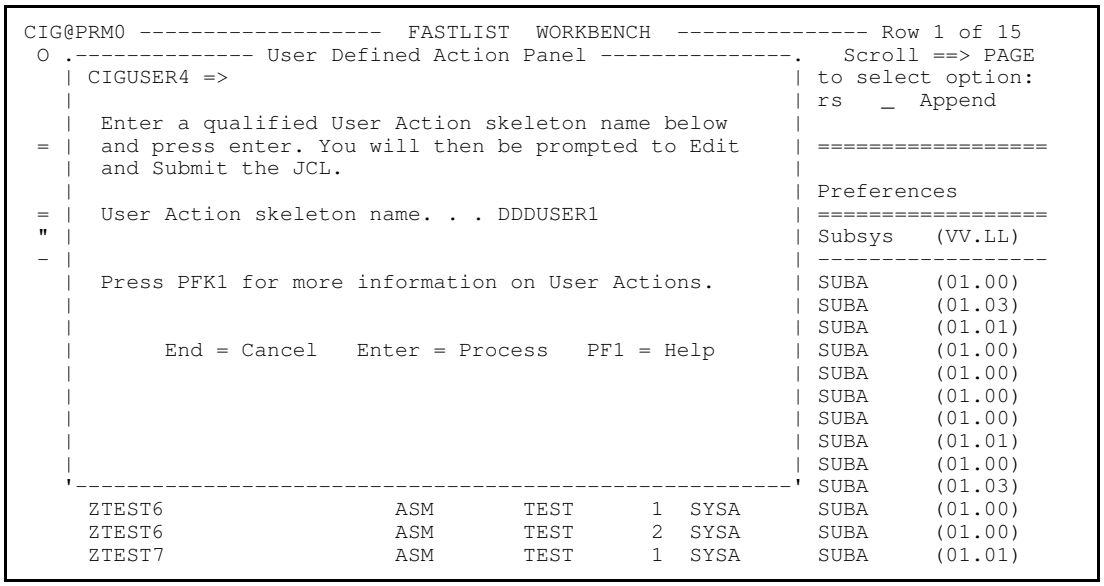


Figure 2.19 User Defined Action panel

The model User Action skeleton, CIGUSER0, is included in the FastLIST Batch User Guide and is meant only as a starting point for building other User Actions.

Running Actions in Batch

Submitting actions for multiple elements is as simple as specifying the action desired, confirming the options to be used in the actions, and allowing the job to submit. The process of steps for performing these actions are

Step 1: Set Your Job card.

Select the JCL function in the Group Action area to display the JCL Setup panel. Space is provided for four jobcards that will be used for batch job execution. Depending on how the product has been installed, these may be filled with the same values used by Endevor. More information on this option is available in the "JCL and Job Card Setup" section below.

Step 2: Build the list of elements to be processed.

Using the LIST ELEMENT option on the FastLIST main panel, identify the elements you wish to invoke the action on. The content of the list is important because the Group Action selected will apply to all elements listed unless they are specifically excluded.

```
----------------------------  FASTLIST  WORKBENCH  ----------------------------
 OPTION  ==>                                                 SCROLL ==> PAGE

                                                      ENTER "/" TO SELECT OPTION:
 LIST  ELEMENT. .CIG*            LIST TYPE . E (E/X/B)    _ SHOW FILTERS  _ APPEND
 WHERE COMPONENT.             COMP TYPE . X (I/O/P/X)
================================================================================
 ENTER "/" TO SELECT FUNCTION BELOW OR LINE COMMAND:
 _ GROUP ACTION     _ JCL     _  MSGS    _  REPORTS     _  PREFERENCES
================================================================================
"/" ELEMENT                 TYPE       ENVIRON   S  SYSTEM    SUBSYS   (VV.LL)
--- ---------- ------------ ------------------------------------------------
    CIGISPF                 ASM        SPAIN     2  FASTLIST  R2M0     (01.34)
    CIGISPF1                ASM        SPAIN     2  FASTLIST  R2M0     (01.00)
    CIGISPF2                ASM        SPAIN     2  FASTLIST  R2M0     (01.05)
    CIGISPF3                ASM        SPAIN     2  FASTLIST  R2M0     (01.03)
    CIGISPF4                ASM        SPAIN     2  FASTLIST  R2M0     (01.00)
    CIGISPF5                ASM        SPAIN     2  FASTLIST  R2M0     (01.01)
    CIGISPF6                ASM        SPAIN     2  FASTLIST  R2M0     (01.01)
    CIGISPF7                ASM        SPAIN     2  FASTLIST  R2M0     (01.02)
    CIGISPF8                ASM        SPAIN     2  FASTLIST  R2M0     (01.07)
```

Figure 2.18 Building an element list

Step 3: Type ‘/’ in the Group Action field.

Entering this action signals FastLIST to bring up the Group Mode Action Request panel, where you will select an action. The Execution Options control whether the job will be submitted in Batch, Foreground, or Not submitted at all.

To submit the action in batch, after specifying the action to be performed, Select Execution Option 1, Batch, and press <Enter>.

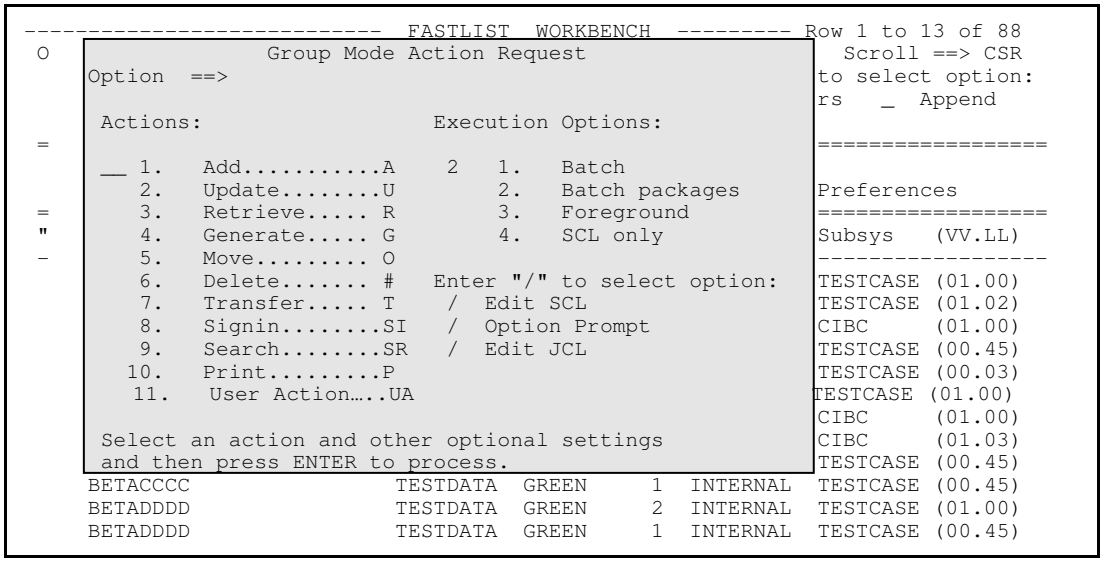


Figure 2.19 Selecting an Action in batch

JCL and Job Card Setup

Step 1: Set Your Job Card.

Actions submitted in batch from the FastLIST screens utilize three file tailoring skeletons:

1. C1SB3000
2. CESSRCH
3. C@SBATPK

Any variables required by ENDEVOR to expand these skeletons are available in FastLIST. To include the message and trace ddnames from FastLIST into any of these skeletons, modify the "additional JCL" variables from the JCL panel as in the example below.

Additional JCL is always included in job submissions, so remember to comment out any DD statements that are not regularly needed.

```
---------------- JCL SETTING FOR FILE TAILORING ----ROW 1 TO 8 OF 20
 COMMAND ===>

 END = RETURN AND SAVE    PFK1 = HELP

 JOB CARDS FOR ALL FILE TAILORING:
 ======>//CIG01A  JOB (810001),'CIG-,CLASS=4,MSGCLASS=H,NOTIFY=CIG01,
 ======>//        REGION=0M
 ======>//*
 ======>//*

 SCL DSN: 'CIGT.TEST.PDS'
 MEMBER:  TEMP

 ADDITIONAL JCL FOR ALL FILE TAILORING:
 ======>//CIGOUT  DD   SYSOUT=*
 ======>//CIGTRACE DD  DUMMY
 ======>//*IGINI DD DISP=SHR,DSN=CIGT.XIFR01.LOADLIB(BIGDATA)
 ======>
 ======>
 ======>
 ======>
 ======>
```

Figure 2.20
JCL Skeleton

Setting Your Preferences from the Action Area

The Preferences Panel contains many of the user defaults for option settings, default inventory locations for searches, sources, and more.

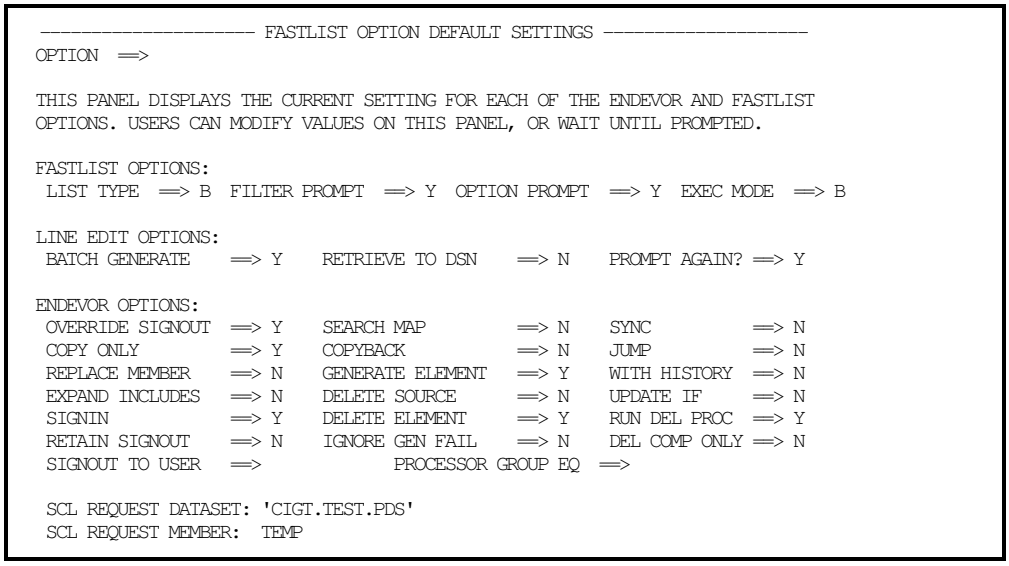


Figure 2.21
The Preferences Panel

FastLIST Options

`List Type` The default list type for FastLIST. Options are E (Endevor), X (external dataset), or B (both).

`Filter Prompt` The default value for the filter flag.

`Option Prompt` The default value of the Option prompt.

`Exec Mode` The default submission mode for actions.

Line Edit Options

`Batch Generate` The default value for the Batch Generate option on the Add action options panel.

`Retrieve to DSN` The default value for what type of dataset to retrieve into, temporary or permanent.

`Prompt Again?` The default value for the Prompt Again option on the Line Edit options panel. This option controls whether the same options are to be used when multiple elements are selected for editing.

Endevor Options

The Endevor options are identical to the options available in the Endevor product and are fully described in the CA-Endevor documentation.

Requesting FastLIST Reports from the Action Area

The user can also request FastLIST reports from the Endevor ISPF Interface. Select the Reports function in the Group Action area and press <Enter>. The FastLIST reports selection screen will be displayed.

The following figure displays the FastLIST Report Selection Panel. Enter 'S' on one or more of the report selections and set inventory filters.

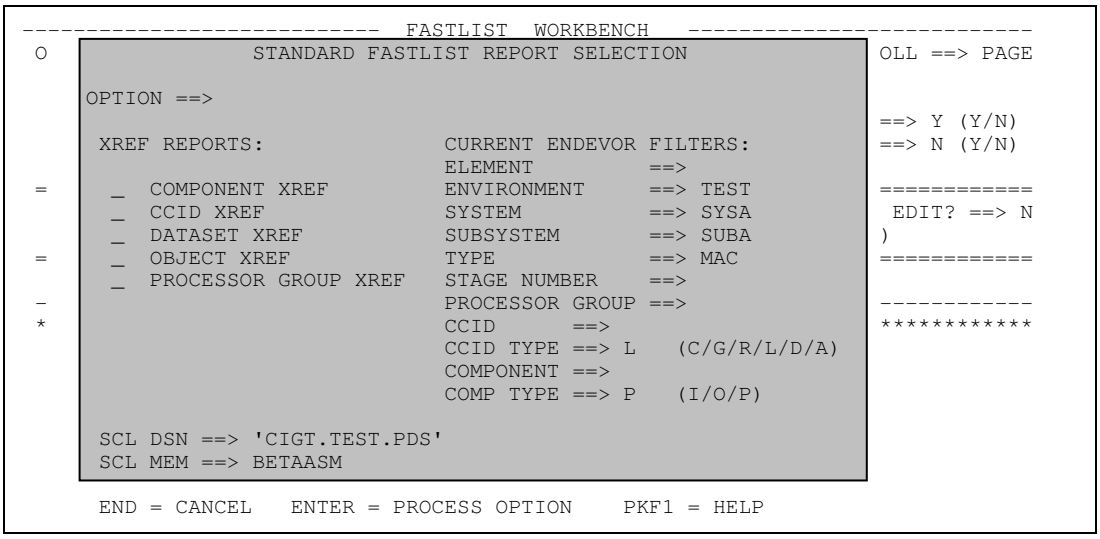


Figure 2.22
FastLIST Report Submission Panel

Multiple report requests will be built and submitted in one job. The job card values setup on the JCL screen will be used for the JCL. Skeleton CIGSKL03 will be used for the file tailoring. This skeleton should have been modified during implementation.

XREF Reports

Field	Description
Current Endevor Filters	The fields in this section of the panel control the scope of the reports by Endevor inventory information. All options under this heading can be masked or wildcarded.
Summaries Only	This option will suppress the detailed content of the report and produce summary information only.
SCL DSN and Member	A valid dataset name and member name are required for submitting the report request.

From the Group Mode Action Request Panel, select Execution Option 2, Batch Package. You will be prompted with the Create or Modify Package panel shown below in Figure 2.23. Note that unless cancelled, this execution mode will always submit a job to invoke Batch Package functions to define the package. Additional package functions are controlled by the package execution options on this prompt panel.

From this panel, you would enter:

- a package ID
- package description, and
- which package actions to invoke
- which package options to enable
- execution windows (overrides default)

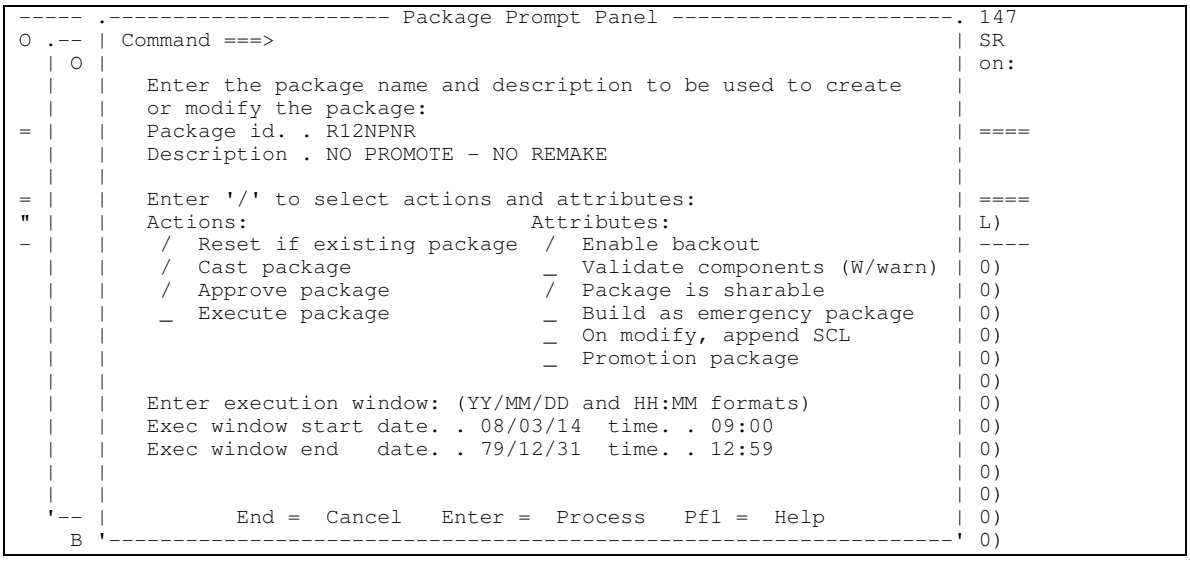


Figure 2.23 Build Package Panel

`Package ID:` Package name. Accepts up to 16 characters.

`Description:` Package description. Accepts up to 50 characters.

`Package Actions:`

`Reset:` Resets an existing package to Endevor IN-EDIT status.

`Cast:` Locks package to prevent further element modifications.

`Approve`: Invoke an Approve action on the package after the case

`Execute:` Invoke a Execute action for the package

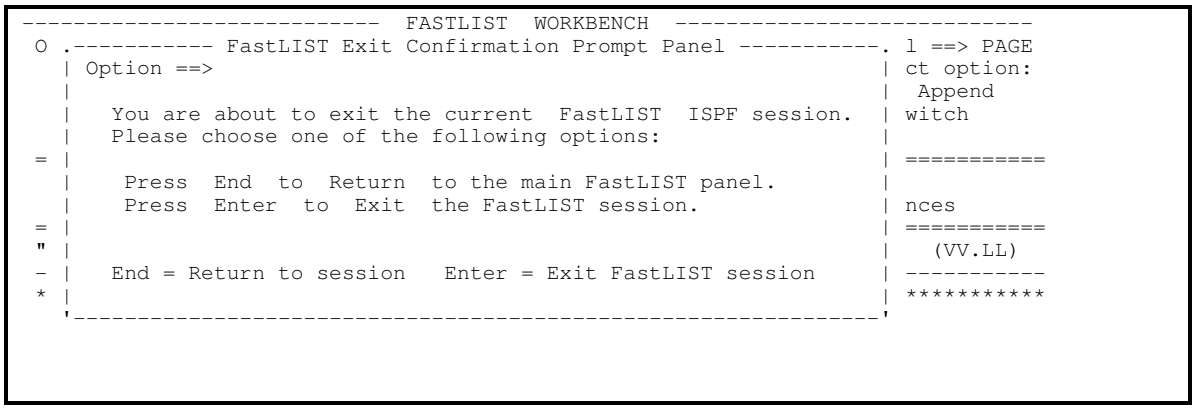
`Package Attributes:`

`Enable Backout:`	Creates Back-out members during execution of pkg
`Validate component:`	Ensures all components used are promoted with change.
`Package sharable:`	Ensures others can update/reset package.
`On Modify Append:`	If SCL already exists in Package append new SCL to it.
`Promotion Package:`	Release 12.0 or higher only. Promotion package will reposition package up the map after execution. MOVE actions only. .

Exiting the FastLIST Workbench

When the user presses the End Key (PF3) to exit the ISPF session, they will now be prompted with an exit confirmation panel. This will keep users from exiting the ISPF application by accident.

The following an example of the new FastLIST Exit Confirmation Panel:



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