



# **U.CHANGE**

**Utility Interface Module  
for the CHANGE Processor**

## **USER'S GUIDE**

**POINT**  **AUTOMATED SOFTWARE PRODUCTS**

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## I. U.CHANGE

U.CHANGE is used to collectively change the protection levels of a specified group of files on a logical unit. U.CHANGE, written in Business Basic under IRIS, is a Utility Interface Module which facilitates the use of the CHANGE processor.

U.CHANGE builds a work file containing the names of files that the user designates for changing. File lists accumulated in this temporary storage area are displayed on the screen for the user to review and modify.

The user makes a final determination of the files to which a new protection code will be assigned, denotes the new code, and then initiates the change function. The protection levels of the specified files are then changed collectively by the CHANGE processor.

## II. USING U.CHANGE

To invoke U.CHANGE from SCOPE, enter "U.CHANGE". If U.CHANGE is not on logical unit zero or the user's assigned logical unit, enter "nn/U.CHANGE", where nn = the logical unit on which the U.CHANGE program is resident. The terminal will then display a screen similar to the one shown below.

```
PORT NUMBER: 15      FILE CHANGE FACILITY      U.CHANGE 1.1 07/06/81

      FILE(S) PREFIX: _____
      TYPE OF FILE(S): _
      SOURCE LOGICAL UNIT: __
      NEW PROTECTION CODE: __

COMMENT:
COMMAND:
MESSAGE:
```

The top line of the screen shows port number, program name, version, revision and release date. File selection criteria fields occupy the middle portion of the screen. Three lines at the bottom of the screen are for system/user interaction. The COMMENT line provides system prompts to the user. The COMMAND line is for user command input, and the MESSAGE line displays error messages from the system.

There are two help modules within the U.CHANGE program. The user may access the first help module by entering "?" in the first keyable position of any field. It explains the various options that are permissible in response to the requested parameters.

While entering the selection criteria an 'escape' will abort the current entry field and return the user to the previous field for changes. An 'escape' entry at the first field will abort the U.CHANGE program and return the user to SCOPE.

The file prefix selection field enables the user to retrieve files for subsequent changing by specifying the beginning characters of the file names. This is particularly helpful when naming conventions have been used to categorize a group of files that the user now wants to change. If the file prefix entry is omitted (by pressing 'return'), all files will be selected unless limited by subsequent parameters.

The next parameter that the user may enter is file type. The user can specify the IRIS file type (e.g., "B" for Basic or "T" for text) to be selected. A 'return' indicates a default from the file type field and causes all files that meet the other parameters to be selected.

With the source logical unit field the user specifies the logical unit containing the files whose protection code will be changed. A default from this entry causes the user's assigned logical unit to be selected.

In the last entry field the user specifies a new protection code for the files that are to be changed. The user may not default from this entry and the new protection code must be valid under IRIS.

After the user has responded to each of the requested parameters with a valid entry (or default), the terminal will display a system prompt asking if all of the entries are correct. An "N" returns the user to the selection criteria to change any or all of the parameters. A "Y" causes the system to begin the file selection process. The terminal will display a "DO NOT DISTURB" message while this file initialization is in progress.

Note that the protection level of the files will not actually be changed until the user has reviewed or modified a list of the designated files.

Once initialization is complete, the system displays lists of the specified files in groups of 36. If the 'escape' key is depressed at any time after the first file list is displayed, the U.CHANGE program will be aborted and the user will be returned to SCOPE.

After the first list of files has been displayed, the user may access the second help module. This help module will aid in a final determination of the files to be changed. The commands shown in the help module may be used to modify the list of files before execution of the change function. Files that remain on the screen after review and modification will be changed when the 'execute' command is performed.

The user should examine all pages (i.e., groups of 36 files) of the selected files prior to entering the 'execute' command in U.CHANGE. Only the files which have been reviewed ("paged" onto the screen) will be changed by U.CHANGE. After the 'execute' command is entered, the terminal displays a status message as each file is processed in turn.

When the last file has been changed, the system will ask if the user wants to change any more files. A "Y" returns the user to the file selection screen to initiate another session, while an "N" terminates the U.CHANGE program and returns the user to SCOPE.

The following walk-through of various U.CHANGE procedures will familiarize the first-time user with the U.CHANGE program. In order to utilize this self-teach package, a number of files must be built. To establish the necessary files, enter and run the following Basic program.

```

10 IF ERR 0 STOP
20 DIM Z$(10),A$(40)
30 FOR Z=1 TO 40
40   LET A$=Z USING "<00>XYZTEST##!"
50   IF Z<10 LET A$[12,12]="0"
60   BUILD #1,A$
70   CLOSE #1
80 NEXT Z
90 END

```

You have now established 40 formatted files (XYZTEST01 through XYZTEST40) with a protection level of <00> on your assigned logical unit. These files will be used in the walk-through to demonstrate the capabilities of U.CHANGE.

Read the comments that appear in the "DESCRIPTION" column. Then enter the information exactly as it appears in the "INPUT" column. Note the result of each entry and proceed to the next step. (CR) indicates that the 'return' or 'enter' key should be depressed. (ESC) indicates that the 'escape' key (CTRL D) should be used.

<u>DESCRIPTION</u>	<u>INPUT</u>
1. Run U.CHANGE.	U.CHANGE (CR)
2. You want more information on the file selection fields. Invoke and read the first help summary. Return to the file selection screen.	? (CR)  (CR)
3. Review for possible changing all those files whose names begin with the characters "XYZ".	XYZ (CR)
4. Return to the previous field and change the entry to specify files whose names begin with "XYZT".	(ESC) XYZT (CR)
5. Specify that they are formatted files.	F (CR)
6. Specify your assigned logical unit by a default from the source logical unit entry.	(CR)
7. Assign a new protection code of 11 to the designated files.	11 (CR)
8. The file selection criteria are correct. The system will now perform a LIBR using the specified criteria to begin building the work file.	Y (CR)
9. The screen now displays the files you specified with the selection criteria. Invoke the the second help facility and read the screen modification commands.	? (CR)
10. Return to the list of files.	(CR)

<u>DESCRIPTION</u>	<u>INPUT</u>
11. Enter 'return'. The system response says you must enter one of the commands.	(CR)
12. Page forward to review the rest of the list. Note that numbers on each page begin at one.	P (CR)
13. Page forward again. The system responds by saying you are at the end of the file.	P (CR)
14. Wrap to the beginning of the work file. All of the file names have now been reviewed.	W (CR)
15. You do not want to change the protection codes of file numbers 3, 4, and 30. Erase them from the screen.	3, 4, 30 (CR)
16. Erase file numbers 1 and 2 from the screen.	1 2 (CR)
17. Erase file numbers 31 through 36 from the screen.	31-36 (CR)
18. Restart the review of the current page. The screen will be displayed as it was before any erasures.	R (CR)
19. Erase file numbers 2 through 34.	2-34 (CR)
20. Page forward to the rest of the file.	P (CR)
21. Erase all files on this page.	A (CR)
22. Restart the review of the current page.	R (CR)
23. Erase file numbers 1 through 3.	1-3 (CR)
24. Wrap to the beginning of the file. Note that all of the remaining file names have been relisted and renumbered.	W (CR)
25. Change the protection code of all files listed on the screen. Note the response as each file is processed.	E (CR)
26. The system asks if you wish to change more files. Answer "N" for no. You will then be returned to SCOPE.	N (CR)

To check to see that the protection level of the files has been changed, you can perform a LIBR XYZ and note the protection status, which follows the filename in the LIBR listing.

As a result of this walk-through, you have created 40 files on your logical unit. To avoid confusion in other User's Guides, you may now want to use the Utility Interface Module U.KILL to delete the files.

### III. THE HELP FACILITY

There are two help summaries in the U.CHANGE program. The help facility may be invoked in U.CHANGE by entering "?", causing the appropriate summary to be displayed on the screen.

The first help summary will guide the user in the selection of file parameters. It explains each parameter, gives the result of an omitted entry (default), and offers an illustrative example of a completed set of selection criteria.

The second help summary contains a detailed explanation of the screen modification commands. This screen aids the user in the final determination of those files to be changed.

To exit either help module press 'return'. The user will be returned to the point at which the help facility was invoked.

### IV. CONCEPTS

#### FILES

U.CHANGE uses two temporary storage areas (work files) to accumulate lists of file names designated for changing. The lists in one work file are modified by the user and written to the other work file for subsequent modifications.

Each user has exclusive access to a unique pair of files. This is insured by incorporating the port number into the work file names (represented by "nnn" below). The U.CHANGE work files are:

File Name	Description
EDITSV0nnn	Edit save file -- Used as the output file from the LIBR function of the selection criteria entry, and as the input file during the first work file screen modification.
EDITWKAnnn	Edit work file "A" -- Used as output file for the first work file screen modification, and as the input scratch file for every even-numbered pass through the file.

#### CHANGING

U.CHANGE is a front end (utility interface module) for the CHANGE processor. It provides an efficient means of changing the protection level of files by creating a job stream for the CHANGE processor.

The U.CHANGE program is subject to the same functional guidelines as the CHANGE processor. A file's protection code may only be changed by a user whose privilege level grants full access to that file.

Note that U.CHANGE processes only those files that have been reviewed by the user after initialization. Files listed on pages that the user does not review in the latest pass will not have their protection changed when the 'execute' command is performed.

The processor CHANGE is invoked when the 'execute' command is performed within U.CHANGE. This one command will initiate a change of protection for all of the designated files.

## PROTECTION CODE

The protection code of a file is a two-digit number. The first digit represents protection against lower privilege users, and the second specifies protection against users of the same privilege level. Protection types are listed below.

0 = No protection	4 = Read protect
1 = Copy protect	5 = Read and copy protect
2 = Write protect	6 = Read and write protect
3 = Copy and write protect	7 = Read, write and copy protect

## **V. COMMAND SUMMARY**

Syntax	Command Function
A	A - 'All' erases all file names on the current screen. None of the files erased from the screen will be assigned the new protection.
E	E - 'Execute' initiates the change function by invoking the CHANGE processor. U.CHANGE will transfer to the CHANGE processor all those file names that were left on the screen after the last pass through the work file. The files will then be changed in turn.
P	P - 'Page' stores for later changing the file names left on the screen, and then displays the next 36 selected file names (if present).
R	R - 'Restart' re-displays the current screen as it was before any erasures. File names previously erased from the screen may then be left on the screen for assignment of the new protection code.
W	W - 'Wrap' stores the file names left on the screen for subsequent changing, and restarts the selection process with the first 36 remaining file names.
nn	nn - 'nn' (where nn = the number of a file name) erases file number 'nn' from the screen. Files erased from the screen will not be changed. Two numbers separated by a hyphen will erase the corresponding range of files. Several numbers may be entered at once if they are separated by commas and/or spaces (for example, "5,9,12-14 33 35,2" will erase file numbers 5, 9, 12, 13, 14, 33, 35 and 2).

## **VI. NOTES**



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