



**CCAPRINT**

A Newsletter Excerpt for Model 204 Users

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**Commands for Managing Procedures -  
COPY PROC and DISPLAY PROC**

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Many of you maintain very large procedure files containing hundreds, if not thousands of User Language procedures. Sometimes, for various reasons, you may want to move some of these procedures to a different procedure file or even copy some of them to a sequential dataset. There are several ways to accomplish this, but the easiest way is to issue either the COPY PROCEDURE or DISPLAY PROCEDURE command. These commands are especially useful since they let you use patterns with wildcard characters to select a subset of procedures to copy or display.

For example, let's take a look at ABCDPROC, the procedure file maintained at your site for your applications. ABCDPROC contains almost 900 procedures, including the procedures for subsystems like Accounts Management, Development Management, Library and so on. Figure 1 is part of one screen from a DISPLAY LIST command against ABCDPROC.

**Figure 1. DISPLAY LIST against ABCDPROC**

PROCEDURE NAME	DATE	TIME	LENGTH	USER ID	PCL
LIBP.FISIZ610	09/14/04	10:45:27	29271	USER007	
LIBP.FISIZ620	09/14/04	10:45:27	57284	USER007	
LIBP.RCDEF600	09/14/04	10:45:27	93734	USER007	
LIBP.RCLIS600	09/14/04	10:45:27	83822	USER007	
LIBR.CHKDUMM2	09/14/04	10:45:27	3923	USER007	
LIBR.COPYDLNK	09/14/04	10:45:27	2287	USER007	
LIBR.DEFAULTS	09/14/04	10:45:27	7494	USER007	
LIBR.DLINKFND	09/14/04	10:45:27	688	USER007	
LIBR.DLNKFIND	09/14/04	10:45:26	2317	USER007	

## Using the COPY PROC command

Suppose there are 27 procedures with names that begin with LIBR. If I want to copy just those procedures to a different file, such as TEMPPROC, the single command in Figure 2 can accomplish that. (ABCDPROC is the current default file and TEMPPROC is open.)

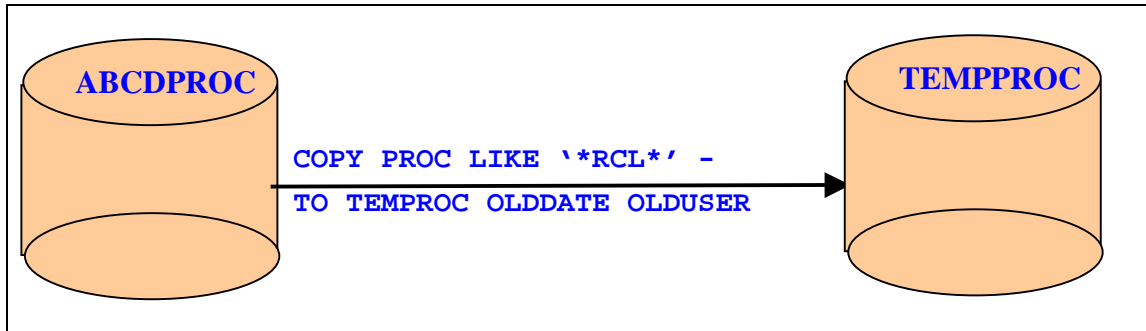
Figure 2. COPY PROC LIKE 'LIBR\*'

```
COPY PROC LIKE 'LIBR*' TO TEMPPROC OLDDATE OLDUSER
```

I specified OLDDATE and OLDUSER to preserve the date of last update and the updater's user ID during the copy to TEMPPROC.

If I want to copy only procedures that had the string RCL anywhere in the procedure name, the COPY PROC command in Figure 3 can accomplish that.

Figure 3. COPY PROC LIKE '\*RCL\*'



The COPY PROC command copies procedures from Table D of the source file to Table D of the target file. Sufficient Table D pages must be available in the target file or a Table D full condition results.

If the current context is a multiple procedure file group, then COPY PROCEDURE searches files in the order determined by the CREATE GROUP command and copies the first found occurrence of each procedure specified.

The complete syntax of the COPY PROC command can be found in the *Model 204 Command Reference Manual*.

## Using patterns to select a subset of procedures

The patterns used in the COPY PROC or DISPLAY PROC commands can employ the following characters:

Pattern match character	Character name	Purpose
*	Wildcard character	Match a single, or many characters
+	Placeholder	Match any single character
!	Escape character	Next character is a pattern character
#	Numeric character	Match only a single, numeric character
@	Alphabetic character	Match only a single, alphabetic character

The other characters supported in User Language pattern matching are not supported for COPY PROC or DISPLAY LIST commands.

Figure 4. Several examples of valid COPY PROC and DISPLAY PROC patterns

```
COPY PROC LIKE 'SIMD.*##' TO TEMPPROC OLDDATE OLDUSER
COPY PROC LIKE '*!-*' TO TEMPPROC
DISPLAY PROC LIKE '*@@@!-*'
DISPLAY PROC LIKE '*HELP#'
```

## Using DISPLAY PROC to copy procedures to a sequential dataset

If you need to copy a subset of procedures to a sequential dataset for use as a backup or to transfer those procedures to another site, you can issue the USE OUTXXXXX and DISPLAY PROC commands for that purpose.

If I want to copy the source text of those 27 procedures whose names begin with LIBR, then the example in Figure 5 can accomplish that objective.

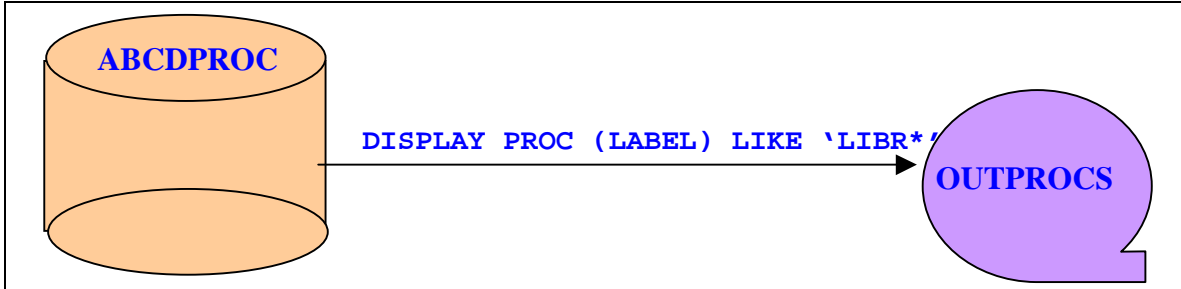
Figure 5. USE OUTXXXXX command

```
USE OUTPROCS
DISPLAY PROC (LABEL) LIKE 'LIBR*'
```

The LABEL option causes the PROCEDURE command, with the procedure name, to precede the source text and the END PROCEDURE command to follow:

```
PROCEDURE LIBR.CHKDUMM2  
Source text  
END PROCEDURE
```

Figure 6. Schematic of DISPLAY PROC to a USE dataset



### In Conclusion

If you need a quick and easy way to copy procedures from one Model 204 file to another or from a Model 204 file to a sequential dataset, consider the COPY PROC and DISPLAY PROC commands.

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