

Lab 8: CMS Pipelines

1) Write a pipeline from the command prompt that displays a disk file on your terminal. (Use any file that you would like or, if you cannot think of a file, use the PROFILE EXEC.) When completed, write the pipeline below.

2) Write a pipeline within a REXX EXEC to store the response to the CP command "QUERY NAMES" in a file named: LOGGED USERS A

3) Write an extension of the previous program that places the logged-on users before the list of all users. Write this pipeline within a REXX program.

4) Write another extension of the previous example that filters out all of the names, using the filters shown below: (Portions of the pipeline have been completed for you, so fill in the blanks and test your completed pipeline within a REXX program. Remember that we only want the logon user and not the users associated with other types.)

- One line of the file for each name:

```
`cp _____ |', /* Query names of users */  
`split after , |', /* One-line for each name */
```

- Locate and remove -DSC user (Disconnected users):

```
`nlocate /-_____/ |', /* Remove disconnected users */
```

- Strip the leading blanks:

```
strip leading |', /* Remove blanks */
```

- Find and discard (LOGO, LOGN, and VSM_-) if applicable:

```
_____ LOGO |', /* Find the name; discard; don't need */  
_____ LOGN |', /* Don't need */  
_____ VSM_- |', /* Don't need */
```

- Just take in the user name:

```
`spec 1.8 1 |', /* Just take the user name */
```

- Then write into a file, create the name of it below:

```
`> _____ a |', /* Write File */
```

- Count the number of lines in the file:

```
'count lines |', /* Count */
```

- Format the count output and display to console:

```
'spec 1-* 1 , connected users., next |', /*Format output*/
'_____' /* Write to terminal console*/
```

This pipeline gets only the names of logged-on users.

5) Write a filter to reverse the characters in a record: the first character on an input line is the last one on the output line. For example, if the input line is “Hi how are you?” the output should be “?uoy era ohw iH”. Test your REXX filter with:

```
→ 'Pipe Literal Hi how are you? | Reverse | Reverse | Console'
→ 'Pipe Literal Hi how are you? | Reverse | Console'
```

The first should read normally and the second should read backwards. A start REXX program is shown here to get you started: (Remember to read the captions and search for the right commands to do so.)

```
/* Reverse the Contents of lines - REVERSE REXX */
signal on error
do _____ /* Loop through all lines until there are none left*/
' _____ line' /* Read a line into "line" */
'output' _____(line) /* Write reverse with output command */
end
error: exit RC *(RC<>12)
```

6) Theory question: Discuss XEDIT versus SUBCOM XEDIT-

What are the differences between the two pipe endings shown here?

```
...| xedit
...| spec /i / 1 1-* next | subcom xedit
```