Script is placed in directory /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya

Trash Directory is /backup/BACKUP\_EL603/TRASH

Clean period = 15(current configuration)

Script usage

Delscript.sh [<path of the files> <regex/filename> | trash|TRASH]

The script will tar the files matching the regex/filename as a command line parameter($2) from the directory(CLP $1). The tar file will be made in the TRASH directory. Once the tar file is made successfully, then the files will be deleted from the directory.

Once the script identifies the files to be moved, it prompts the user for his approval to delete the files. If the user types y/Y, then only the files will be tared and moved. If the user enters n/N, then the files are not deleted and script finishes. If the user presses Q/q, the script finishes as well.

Other than the above valid input, in all the cases, it displays bad option and it quits.

In case everything goes correct, the files selected are moved and tarred in the TRASH directory. The name of the tarfile is the <current timestamp>.tar

If the CLP passed is trash/TRASH, then script will delete all files(tar or any other) from the TRASH directory defined in the script.

User of the script can only choose one of the above operation i.e either move the files or clean the trash directory at one time.

Notes:

1. Any soft link matching the regex/filename is not included. Hard links will be tared and eventually deleted.
2. If during the process i.e after the script identifies the files to be deleted and before they are deleted, if any other process deletes the file, then following would happen

* If the tar file was not created by that time, then script will throw error and exit.
* If the tar file was created by the time the file got deleted, the script will not give any error during the delete operation as we wanted to delete and if its already deleted then its OK. This is implemented using the rm –f option.

Tescases executed.

1. Pass the script incorrect number of arguments.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh bad usage. Delscript [TRASH| (path where files have to be deleted)( regex to identify the filenames)]

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh adada

bad usage. Delscript [TRASH/trash| (path where files have to be deleted)( regex/filename)]

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya "tmp\*" trash

bad usage. Delscript [TRASH| (path where files have to be deleted)( regex/filename)]

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya "tmp\*" trash dadfa

bad usage. Delscript [TRASH| (path where files have to be deleted)( regex/filename)]

1. Pass the script incorrect directory.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpiya "tmp\*"

There is some problem in the directory you passed as an argument. Please check it and try again

1. User opts for “n” when prompted for confirmation to delete the files.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source$]> ls -ltr

total 7

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:57 1312\_3433\_243

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:57 1312\_3433\_244

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:57 1312\_3433\_245

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:57 1312\_3433\_246

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:57 1312\_3433\_247

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:57 1312\_3433\_248

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 tmp1

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source "1312\_3433\_2\*"

6 files found matching with regex/filename

Do you want to move the following files, If yes then enter y/Y else enter n/N(this will exit the script) Enter q|Q to quit :

Files to be moved-./1312\_3433\_248

Files to be moved-./1312\_3433\_245

Files to be moved-./1312\_3433\_246

Files to be moved-./1312\_3433\_244

Files to be moved-./1312\_3433\_243

Files to be moved-./1312\_3433\_247

n

You choose not to delete the files. Hence existing from script

1. User opts for “N” when prompted for confirmation to delete the files.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source "1312\_3433\_2\*"

6 files found matching with regex/filename

Do you want to move the following files, If yes then enter y/Y else enter n/N(this will exit the script) Enter q|Q to quit :

Files to be moved-./1312\_3433\_248

Files to be moved-./1312\_3433\_245

Files to be moved-./1312\_3433\_246

Files to be moved-./1312\_3433\_244

Files to be moved-./1312\_3433\_243

Files to be moved-./1312\_3433\_247

N

You choose not to delete the files. Hence existing from script.

1. User enters anything other than y/Y or n/N, the script exists saying bad option.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source "1312\_3433\_2\*"

6 files found matching with regex/filename

Do you want to move the following files, If yes then enter y/Y else enter n/N(this will exit the script) Enter q|Q to quit :

Files to be moved-./1312\_3433\_248

Files to be moved-./1312\_3433\_245

Files to be moved-./1312\_3433\_246

Files to be moved-./1312\_3433\_244

Files to be moved-./1312\_3433\_243

Files to be moved-./1312\_3433\_247

t

Existing script.Not a valid option. Please try again

1. User enters Q when prompted for confirmation to delete files.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source "1312\_3433\_2\*"

6 files found matching with regex/filename

Do you want to move the following files, If yes then enter y/Y else enter n/N(this will exit the script) Enter q|Q to quit :

Files to be moved-./1312\_3433\_248

Files to be moved-./1312\_3433\_245

Files to be moved-./1312\_3433\_246

Files to be moved-./1312\_3433\_244

Files to be moved-./1312\_3433\_243

Files to be moved-./1312\_3433\_247

q

You choose to quit. Hence existing from script

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]>

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]>

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]>

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]>

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]>

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source "1312\_3433\_2\*"

6 files found matching with regex/filename

Do you want to move the following files, If yes then enter y/Y else enter n/N(this will exit the script) Enter q|Q to quit :

Files to be moved-./1312\_3433\_248

Files to be moved-./1312\_3433\_245

Files to be moved-./1312\_3433\_246

Files to be moved-./1312\_3433\_244

Files to be moved-./1312\_3433\_243

Files to be moved-./1312\_3433\_247

Q

You choose to quit. Hence existing from script

1. Success scenario: Everything goes fine.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source$]> ls -ltr

total 9

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 tmp1

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 1312\_\_3433\_333

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 1312\_3433\_333

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 12:20 1312\_3433\_243

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 12:20 1312\_3433\_244

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 12:20 1312\_3433\_245

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 12:20 1312\_3433\_246

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 12:20 1312\_3433\_247

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 12:20 1312\_3433\_248

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/TRASH$]> ls -ltr

total 0

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source "1312\_3433\_2\*"

6 files found matching with regex/filename

Do you want to move the following files, If yes then enter y/Y else enter n/N(this will exit the script) Enter q|Q to quit :

Files to be moved-./1312\_3433\_248

Files to be moved-./1312\_3433\_245

Files to be moved-./1312\_3433\_246

Files to be moved-./1312\_3433\_244

Files to be moved-./1312\_3433\_243

Files to be moved-./1312\_3433\_247

y

files deleted from /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source and moved to TRASH. The tarfile created is 20120229133410.tar

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/TRASH$]> ls -ltr

total 9

-rw-rw-r-- 1 p1elkpe cmptl 4096 Feb 29 13:34 20120229133410.tar

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/TRASH$]> cd ../source

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source$]> ls -lt

total 3

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 1312\_3433\_333

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 1312\_\_3433\_333

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 tmp1

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source$]>

1. The test case verifies script behavior when the file matching regular expression gets deleted before the tar file is created.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source$]> ls -ltr

total 8

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 tmp1

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 1312\_\_3433\_333

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 1312\_3433\_333

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 13:43 1312\_3433\_247

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 13:43 1312\_3433\_246

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 13:43 1312\_3433\_245

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 13:43 1312\_3433\_244

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 13:43 1312\_3433\_243

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source "1312\_3433\_2\*"

5 files found matching with regex/filename

Do you want to move the following files, If yes then enter y/Y else enter n/N(this will exit the script) Enter q|Q to quit :

Files to be moved-./1312\_3433\_245

Files to be moved-./1312\_3433\_246

Files to be moved-./1312\_3433\_244

Files to be moved-./1312\_3433\_243

Files to be moved-./1312\_3433\_247

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source$]> rm 1312\_3433\_245

y

tar: ./1312\_3433\_245: No such file or directory

There is some problem creating tar files. Either the files doesnt exist.

1. The same scenario but the file gets deleted after the tar file is created and files moved. In this case there is no error. Operation completes.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source "1312\_3433\_2\*"

5 files found matching with regex/filename

Do you want to move the following files, If yes then enter y/Y else enter n/N(this will exit the script) Enter q|Q to quit :

Files to be moved-./1312\_3433\_245

Files to be moved-./1312\_3433\_246

Files to be moved-./1312\_3433\_244

Files to be moved-./1312\_3433\_243

Files to be moved-./1312\_3433\_247

Y

files deleted from /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source and moved to TRASH. The tarfile created is 20120229135253.tar

1. If the regex passed, matches a soft link then the script will not include the soft link. In case of hard links, the normal logic applies.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source$]> ln 1312\_\_3433\_333 tmphardlink

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source$]> ln -s 1312\_\_3433\_333 tmp4

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source$]> ls -ltr

total 9

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 tmp1

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 11:59 1312\_3433\_333

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 13:58 tmp2

-rw-rw-r-- 1 p1elkpe cmptl 0 Feb 29 13:58 tmp3

lrwxrwxrwx 1 p1elkpe cmptl 14 Feb 29 13:59 tmp4 -> 1312\_\_3433\_333

-rw-rw-r-- 2 p1elkpe cmptl 18 Feb 29 13:59 tmphardlink

-rw-rw-r-- 2 p1elkpe cmptl 18 Feb 29 13:59 1312\_\_3433\_333

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source "tmp\*"

4 files found matching with regex/filename

Do you want to move the following files, If yes then enter y/Y else enter n/N(this will exit the script) Enter q|Q to quit :

Files to be moved-./tmphardlink

Files to be moved-./tmp3

Files to be moved-./tmp1

Files to be moved-./tmp2

Soft link tmp4 is not selected by script.

[p1elkpe@ /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya$]> delscript.sh /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source "tmp\*"

4 files found matching with regex/filename

Do you want to move the following files, If yes then enter y/Y else enter n/N(this will exit the script) Enter q|Q to quit :

Files to be moved-./tmphardlink

Files to be moved-./tmp3

Files to be moved-./tmp1

Files to be moved-./tmp2

y

files deleted from /u01/appl/p1elkpe/upc\_scripts/pst/sarvpriya/source and moved to TRASH. The tarfile created is 20120229142234.tar