4/27/2020 TestOut LabSim

8.12.8 cpio and dd Facts

This lesson covers the following topics:

- Using cpio
- Using dd

Using cpio

The **cpio** command is used to archive files or to extract files from a cpio archive. Although similar to other archive tools, **cpio** is different because it takes only the files names from standard input.

The cpio command:

- Copies files to an archive (copy-out mode).
- Extracts files from an archive (copy-in mode).
- Copies files to a different directory tree (copy-pass mode).

Command	Descriptions		Example
cpio	Option	Description	<pre>ls ~/4archive cpio -ov > filename.cpio Creates a cpio archive from the files in the ~/4archive directory. cpio -iv < filename.cpio Extracts the files from the cpio archive. ls ~/copyme cpio -pvd ./newdirectory Copies files from ~/copyme to ./newdirectory.</pre>
	-0	Creates the archive in copy-out mode.	
	-v	Causes cpio to display verbose output, showing file names as they're added or removed.	
	-i	Extracts files by invoking copy-in mode.	
	-u	Overwrites existing files.	
	-d	Creates directory paths (if needed) during extraction.	
	-t	Displays archive contents without extracting files.	
	-р	Copies files to a new directory (copy-pass mode).	

Using dd

The dd command stands for "data duplicator" and is used to copy and covert data. The dd command can be used for tasks such as:

- Backing up and restoring the entire hard disk or partition
- Backing up the Master Boot Record (MBR)
- To copy and convert magnetic tape format
- To convert between ASCII and EBCDIC formats
- To convert lower case to upper case

The syntax of dd is: dd options=value

Command	Description		Examples
dd	The dd command stands for "data duplicator" and is used to copy and covert data. The dd command can be used for tasks such as: Backing up and restoring the entire hard disk or partition		dd if=/dev/sda of=/dev/sdb Will clone one hard disk to another hard disk.
	Backing up theTo copy and coTo convert bet	dd if=hdadisk.img of=/dev/sdb3 Will restor the above image to an other machine.	
	To convert low The syntax of dd is: dd	dd if=/dev/hda1 of=~/partition.img Will backup a partion to an image	
	Option	Description	name partition.img
	bs=BYTES	Read and write up to BYTES bytes at a time (default: 512);	

	overrides ibs and obs	
cbs=BYTES	Convert BYTES bytes at a time	
conv=CONVS	Convert the file as per the comma separated symbol list	
count=N	Copy only N input blocks	
ibs=BYTES	Read up to BYTES bytes at a time (default: 512)	
if=FILE	Read from FILE instead of stdin	
iflag=FLAGS	Fead as per the comma separated symbol list	
obs=BYTES	Write BYTES bytes at a time (default: 512)	
of=FILE	Write to FILE instead of stdout	
oflag=FLAGS	Write as per the comma separated symbol list	
seek=N	Skip N obs-sized blocks at start of output	
skip=N	Skip N ibs-sized blocks at start of input	
status=LEVEL	The LEVEL of information to print to stderr; 'none' suppresses everything but error messages, 'noxfer' suppresses the final transfer statistics, 'progress' shows periodic transfer statistics	

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