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## 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	Is ~/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.  Is ~/copyme   cpio -pvd ./newdirectory Copies files from ~/copyme to ./newdirectory.
	-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).	

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## **Using dd**

The dd command stands for "data duplicator" and is used to copy and convert 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

Command	Description	Examples	
dd	copy and convert dat such as:  Backing up a partition Backing up t To copy and To convert b	ands for "data duplicator" and is used to a. The dd command can be used for tasks and restoring the entire hard disk or the Master Boot Record (MBR) convert magnetic tape format between ASCII and EBCDIC formats ower case to upper case	dd if=/dev/sda of=/dev/sdb Will clone one hard disk to another hard disk.  dd if=hdadisk.img of=/dev/sdb3 Will restor the above image to an other machine.
	Option	Description	dd if=/dev/hda1 of=~/partition.img
	bs=BYTES	Read and write up to BYTES bytes at a time (default: 512); overrides ibs and obs	Will backup a partion to an image name partition.img
	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	

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	(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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