UNIX Treats a Directory as a File

Directory inode (128B)

Type	Mode
User ID	Group ID
File size	# blocks
# links	Flags
Timestamps (×3)	
Direct blocks (×12)	
Single indirect	
Double indirect	
Triple indirect	

.	2
..	2
bin	11116545
boot	2
cdrom	12
dev	3
...	...

Directory block

.	inode #
..	inode #
passwd	inode #
fstab	inode #
...	...

File inode (128B)

Type	Mode
User ID	Group ID
File size	# blocks
# links	Flags
Timestamps (×3)	
Direct blocks (×12)	→\→ Data
Single indirect	→Ptr→Data
Double indirect	→Ptr→Ptr→Data
Triple indirect	→Ptr→Ptr→Ptr→Data

Indirect blk

| Ptr (x1024) |

Ptr
Ptr
Ptr
Dir
blks

Ptr
Dir
blks

v
Dir
blks