

# OpenBSD MAC(B) Timestamps

M	Last data Modification
A	Last data Access
C	Last file status Change
B	Birth: not used (always 0)
Resolution	1 nanosecond
M/A/C	M/A/C is updated to current time
m/a/c	M/A/C is inherited from m/a/c of source file/dir
.	M/A/C is not modified

Mount Option	Description
<b>(default)</b>	MAC updates are all performed
noatime	A updates are performed only if M or C is also marked for update

	New File/Dir touch, mkdir	File Read /Execute cat, exec()	Symlink Read/Follow readlink	File Write >, >>	File/Dir Change chmod, chown	New/Delete Hardlink ln, rm	File/Dir Rename mv	Local File Move mv	Local Dir Move mv	Volume File/Dir Move cp	File/Dir Copy (new) cp	File Copy (existing)
M	<b>M</b>	.	.	<b>M</b>	.	.	.	.	<b>M</b>	<b>m</b>	<b>M</b>	<b>M</b>
A	<b>A</b>	<b>A</b>	.	.	.	.	.	.	.	<b>a</b>	<b>A</b>	.
C	<b>C</b>	.	.	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>

	<b>Dir</b> Traversal cd	<b>Dir</b> Listing ls	<b>Dir:</b> Dir Moved into (Local) mv	<b>Dir:</b> New/Rename Child (File/Dir/Hardlink) touch, mkdir, ln, mv, cp	<b>Dir:</b> Delete Child (File/Dir/Hardlink) rm, mv	<b>Dir:</b> Child Read/Exec/Write/Change cat, readlink, >>...
M	.	.	<b>M</b>	<b>M</b>	<b>M</b>	.
A	.	<b>A</b>	<b>A</b>	.	.	.
C	.	.	<b>C</b>	<b>C</b>	<b>C</b>	.