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PBClose Close an open device driver

#include <<u>Devices.h</u>> <u>Device Manager</u>

OSErr PBClose(pb, async);

<u>ParmBlkPtr</u> *pb*; address of a 50-byte <u>IOParam</u> structure <u>Boolean</u> async; 0=await completion; 1=immediate return

returns Error Code; 0=no error

PBClose is used by the File Manager and the Device Manager.

File Manager Usage

PBClose flushes the file buffer to the volume and removes the file's access path (i.e., invalidates its file reference number).

Device Manager Usage

PBClose closes the device driver referenced in the ioRefNum parameter after completing any pending I/O's and releases whatever memory the driver obtained.

pb is the address of a 50-byte <u>IOParam</u> structure. The relevant fields are as follows:

Out-In Name		<u>Type</u>	Size Offset		<u>Description</u>
->	ioCompletion	ProcPtr	4	12	Completion routine address (if async =TRUE)
->	ioRefNum	<u>short</u>	2	24	Device reference number of driver to close
<-	ioResult	OSErr	2	16	Error Code (0=no error, 1=not done yet)

async is a <u>Boolean</u> value. Use <u>FALSE</u> for normal (synchronous) operation or <u>TRUE</u> to enqueue the request and resume control immediately. See <u>Async I/O</u>.

File MgrReturns: an operating system <u>Error Code</u>. It will be one of:

noErr (0) No error

badUnitErr (-21) refNum doesn't match unit table

unitEmptyErr (-22) refNum specifies NIL handle in unit table

dRemoveErr (-25) Can't remove open driver

Device Mgr Returns: an operating system <u>Error Code</u>. It will be one of:

noErr (0) No error (-58)extFSErr External file system File not found fnfErr (-43)fnOpnErr (-38)File not open (-36)ioErr I/O error (-35)No such volume nsvErr rfNumErr (-51) Bad ioRefNum

File Mgr Notes:

DO NOT close a file if already closed. It is possible to wipe out a disk if you do so. A safe suggestion is to set your file reference number to 0 (an invalid value) after you close a file; then if you close the file again, you'll get an error, rather than a catastrophe.

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Closing a file does not necessarily flush all related data to disk. To ensure data integrity, you should use **PBFlushVol** directly after closing.

Device Mgr Notes:

This is the low-level equivalent of <u>CloseDriver</u>. The <u>Device Manager</u> and the <u>File Manager</u> share the same parameter block data structure, but file-specific aspects don't apply to <u>Device Manager</u> calls.