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PBDTAddIcon

Add an icon to the desktop database.

#include <<u>Files.h</u>> <u>Finder Interface</u>

OSErr PBDTAddlcon(paramBlock, async);

<u>DTPBPtr</u> paramBlock; pointer to a DTPB Param Block

<u>Boolean</u> async; 0 = await completion; 1 = immediate return

Your application should not ordinarily call the functions for adding data to the database. If your application does need to write to or delete information from the desktop database, it must call **PBDTFlush** to update the copy stored on the volume.

To add an icon definition to the desktop database, use the **PBDTAddicon** function.

Parameter block

\rightarrow	12	ioCompletion	long	completion routine
\leftarrow	16	ioResult	short	result code
\rightarrow	24	ioDTRefNum	short	desktop database reference number
\rightarrow	28	ioTagInfo	long	reserved; must be initialized to 0
\rightarrow	32	ioDTBuffer	long	pointer to icon data
\rightarrow	36	ioDTReqCount	long	size of icon bitmap
\rightarrow	45	iolconType	char	icon type
\rightarrow	52	ioFile <u>Creator</u>	long	icon's file <u>creator</u>
\rightarrow	56	ioFileType	long	icon's <u>file type</u>

PBDTAddIcon adds an icon definition to the desktop database specified in <u>ioDTRefNum</u>. You specify the <u>creator</u> and <u>file type</u> that the icon is associated with in the <u>ioFileCreator</u> and <u>ioFileType</u> fields. For the icon type in <u>ioIconType</u>, specify either a constant or a value from the following list.

Corresponding

Constant	Value	resource type	Description
<u>kLargelcon</u>	1	<u>'ICN#'</u>	Large black-and-white icon with mask
kLarge4BitIcon		<u>'icl4'</u>	Large 4-bit color icon
kLarge8BitIcon 3		<u>'icl8'</u>	Large 8-bit color icon
<u>kSmallIcon</u>	4	<u>'ics#'</u>	Small black-and-white icon with mask
kSmall4BitIcon 5		<u>'ics4'</u>	Small 4-bit color icon
kSmall8BitIcon 6		<u>'ics8'</u>	Small 8-bit color icon

The value you supply in <u>ioDTReqCount</u> is the size in bytes of the buffer that you've allocated for the icon's bitmap pointed to by <u>ioDTBuffer</u>; this value depends on the icon type. Be sure to allocate enough storage for the icon data; 1024 bytes is the largest amount required for any icon under System 7.0. You can use a constant from the following list.

Constant	Value (bytes in bitmap)	Corresponding resource type	Description
<u>kLargeIconSize</u>	256	<u>'ICN#'</u>	Large black-and-white icon with mask
kLarge4BitIconSize	<u>e</u> 512	<u>'icl4'</u>	Large 4-bit color icon
kLarge8BitIconSize	<u>e</u> 1024	<u>'icl8'</u>	Large 8-bit color icon
<u>kSmallIconSize</u>	64	<u>'ics#'</u>	Small black-and-white icon with mask

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kSmall4BitIconSize	128	<u>'ics4'</u>	Small 4-bit color icon
kSmall8BitIconSize	256	'ics8'	Small 8-bit color icon

You pass a pointer to the icon bitmap in the <u>ioDTBuffer</u> field. You must initialize the <u>ioTagInfo</u> field to 0.

If the database already contains an icon definition for an icon of that type, <u>file type</u>, and file <u>creator</u>, the new definition replaces the old.

Returns: an Error code. It will be one of the following:

noErr	(0)	No error
ioErr	(-36)	I/O error
wPrErr	(-44)	Volume is locked through hardware
vLckdErr	(-46)	Volume is locked through software
rfNumErr	(-51)	Reference number invalid
extFSErr	(-58)	External file system-file system identifier is nonzero
afplconTypeError	(-5030	Sizes of new icon and one it replaces do not match

Note: There is a second, asynchronous, version of this function. It does not take a second parameter; instead, it adds the suffix "Async" to the name of the routine.

Similarly, the third (synchronous) version of the routine does not take a second parameter; instead, it adds the suffix "Sync" to the name of the routine.

Note, however, that the second and third versions of these routines do not use the glue code that the first versions use and are therefore more efficient.