

## Windows 3.x resource allocation and cleanup reference

(from ftp.cica.indiana.edu:/pub/pc/win3/programr/cleanup.zip)

### **Resource    Allocation Routine    Cleanup Routine    Cleanup Required?**

Accelerators	LoadAccelerators	N/A	No		
Atoms	GlobalAddAtom	GlobalFreeAtom		Yes	
Bitmaps	CreateBitmap	DeleteObject		Yes <sup>1</sup>	
	CreateBitmapIndirect	DeleteObject		Yes <sup>1</sup>	
	CreateCompatibleBitmap	DeleteObject		Yes <sup>1</sup>	
	CreateDIBitmap	DeleteObject	Yes <sup>1</sup>		
	CreateDiscardableBitmap	DeleteObject		Yes <sup>1</sup>	
Brushes	LoadBitmap	DeleteObject	Yes <sup>1</sup>		
	CreateBrushIndirect	DeleteObject		Yes	
	CreateDIBPatternBrush	DeleteObject	Yes		
	CreateHatchBrush	DeleteObject	Yes		
	CreatePatternBrush	DeleteObject	Yes		
Carets	CreateSolidBrush	DeleteObject	Yes		
	CreateCaret	DestroyCaret	No <sup>4</sup>		
	Clipboard	OpenClipboard	CloseClipboard		Yes
		Comms Ports	OpenComm	CloseComm	Yes
	Cursor	CreateCursor	DestroyCursor		Yes
LoadCursor		N/A	No		
DC	CreateDC	DeleteDC	Yes		
	CreateCompatibleDC	DeleteDC	Yes <sup>3</sup>		
	GetDC	ReleaseDC	Yes		
	GetWindowDC	ReleaseDC	Yes		
	BeginPaint	EndPaint	Yes		
Dialog Box	CreateDialog	DestroyWindow	No		
	CreateDialogIndirect	DestroyWindow	No		
	CreateDialogIndirectParam	DestroyWindow	No	No	
File	CreateDialogParam	DestroyWindow	No		
	OpenFile	_lclose	No		
	Fonts	CreateFont	DeleteObject	Yes	
CreateFontIndirect		DeleteObject	Yes		
AddFontResource		RemoveFontResource		Yes	
GDI Stock Obj	GetStockObject	N/A	No <sup>5</sup>		

Hook	SetWindowsHook	UnhookWindowsHook	Yes
IC	CreateIC	DeleteDC	Yes
Icon	CreateIcon	DestroyIcon	Yes
	LoadIcon	N/A	No
Library	LoadLibrary	FreeLibrary	Yes
Memory	AllocDStoCSAlias	FreeSelector	Yes
	AllocSelector	FreeSelector	Yes
	GlobalAlloc	GlobalFree	No
	GlobalDOSAlloc	GlobalDOSFr	No
	GlobalFix	GlobalUnfix	No
	GlobalLock	GlobalUnlock	No
	GlobalPageLock	GlobalPageUnlock	No
	GlobalRealloc	GlobalFree	No
	GlobalWire	GlobalUnwire	No
	LocalAlloc	LocalFree	No
	LocalLock	LocalUnlock	No
	LocalRealloc	LocalFree	No
Menu	CreateMenu	DestroyMenu	No <sup>2</sup>
	CreatePopupMenu	DestroyMenu	No <sup>2</sup>
	LoadMenu	DestroyMenu	No <sup>2</sup>
	LoadMenuIndirect	DestroyMenu	No <sup>2</sup>
	GetSystemMenu	N/A	No
MetaFile	CreateMetaFile	DeleteMetaFile	Yes
Palette	CreatePalette	DeleteObject	Yes
Pen	CreatePen	DeleteObject	Yes
	CreatePenIndirect	DeleteObject	Yes
Regions	CreateEllipticRgn	DeleteObject	Yes
	CreateEllipticRgnIndirect	DeleteObject	Yes
	CreatePolygonRgn	DeleteObject	Yes
	CreatePolyPolygonRgn	DeleteObject	Yes
	CreateRectRgn	DeleteObject	Yes
	CreateRectRgnIndirect	DeleteObject	Yes
	CreateRoundRectRgn	DeleteObject	Yes
Resource	AllocResource	FreeResource	No
	FindResource	N/A	No
	LoadResource	FreeResource	No
	LockResource	UnlockResource	No
Sound	OpenSound	CloseSound	Yes

String LoadString N/A No

Thunk MakeProInstance FreeProInstance No

Timer SetTimer KillTimer No

Window CreateWindow DestroyWindow No  
CreateWindowEx DestroyWindow No