

FILE SIGNATURES TABLE

File Extension	Hex Signature	ASCII Signature	Trailer	File Description
DOC, DOT, PPS, PPT, XLA, XLS, WIZ	D0 CF 11 E0 A1 B1 1A E1	Ð.àiz.ã		An Object Linking and Embedding (OLE) Compound File (CF) (i.e., OLECF) file format, known as Compound Binary File format by Microsoft, used by Microsoft Office 97-2003 applications (Word, Powerpoint, Excel, Wizard). [See also Word, Powerpoint, and Excel "subheaders" at byte offset 512. There appear to several subheader formats and a dearth of documentation. There have been reports that there are different subheaders for Windows and Mac versions of MS Office but I cannot confirm that.] [Note the similarity between D0 CF 11 E0 and the word "docfile"!] AC_ CaseWare Working Papers compressed client file ADP Access project file APR Lotus/IBM Approach 97 file DB MSWorks database file MSC Microsoft Common Console Document MSI Microsoft Installer package MTW Minitab data file OPT Developer Studio File Workspace Options file PUB MS Publisher file QBM QuickBooks Portable Company File RVT Revit Project file SOU Visual Studio Solution User Options file SPO SPSS output file VSD Visio file WPS MSWorks text document
DOC	[512 byte offset] EC A5 C1 00	[512 byte offset] ixÁ.		Word document subheader (MS Office)
XLS	[512 byte offset] FD FF FF FF nn 00 or [512 byte offset] FD FF FF FF nn 02 or [512 byte offset] 09 08 10 00 00 06 05 00	[512 byte offset] ýýýý.. or [512 byte offset] ýýýý.. or [512 byte offset]		Excel spreadsheet subheader (MS Office)
PPT	[512 byte offset] A0 46 1D F0 or [512 byte offset] 00 6E 1E F0 or [512 byte offset] 0F 00 E8 03 or [512 byte offset] FD FF FF FF nn 00 00	[512 byte offset] F.ð or [512 byte offset] .n.ð or [512 byte offset] ..ë. or [512 byte offset] ýýýý.....		PowerPoint presentation subheader (MS Office)
DOCX, PPTX, XLSX	50 4B 03 04 14 00 06 00	PK.....	Look for 50 4B 05 06 (PK..) followed by 18 additional bytes at the end of the file.	Microsoft Office Open XML Format (OOXML) Document NOTE: There is no subheader for MS OOXML files as there is with DOC, PPT, and XLS files. To better understand the format of these files, rename any OOXML file to have a .ZIP extension and then unzip the file; look at the resultant file named [Content_Types].xml to see the content types. In particular, look for the <Override PartName= tag, where you will find word, ppt, or xl, respectively.
JPG	FF D8	ÿø	FF D9	Digital camera JPG
PNG	89 50 4E 47 0D 0A 1A 0A	%ePNG...	49 45 4E 44 AE 42 60 82 (IEND'B',...)	Portable Network Graphics file
PDF	25 50 44 46	%PDF	0A 25 25 45 4F 46 (.%EOF) 0A 25 25 45 4F 46 0A (.%EOF.) 0D 0A 25 25 45 4F 46 0D 0A (..%EOF.) 0D 25 25 45 4F 46 0D (.%EOF.) NOTE: There may be multiple end-of-file marks within the file. When carving, be sure to get the last one.	Adobe Portable Document Format and Forms Document file
ZIP	50 4B 03 04		Trailer: filename 50 4B 17 characters 00 00 00 Trailer: (filename PK 17 characters ...)	KZIP archive file
PST	21 42 44 4E	IBDN		Microsoft Outlook Personal Folder File