

Format of the DOS 4.0/5.0 System File Table Entry

Offset	Size
00h	Word
02h	Word

04h	Byte
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05h	Word
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Sheet1

07h	DWord
0Bh	Word
0Dh	Word
0Fh	Word
11h	DWord
15h	DWord
19h	Word
1Bh	DWord
1Fh	Byte
20h-3Ah	27 Bytes

Description

Number of handles referencing this file

File open mode

Bit 15: Always 0

Bits 8-14: Reserved

Bit 7: Inheritance Flag

0=Child process will inherit file

1=Child process will not inherit file

Bits 4-6: File sharing mode

0=FCB compatibility mode

1=Read/write access denied to other processes

10=write access denied to other processes

11=Read access denied to other processes

100=Full access permitted to the file

Bit 3: Reserved (should be 0)

Bits 0-2: File access mode

0=Read-only access

1=write-only access

10=Read/write access

File attribute

Bits 6-7 Unused

Bit 5 1=file has been modified since it was  
last backed up (archive attribute)

Bit 4 1=Entry corresponds to a subdirectory

Bit 3 1=Entry corresponds to a volume label

Bit 2 1=file is a system file

Bit 1 1=file is a hidden file

Bit 0 1=file is a Read-only file

Device information word

If this SFT entry references a file:

Bits 8-15 Reserved

Bit 7 0 (Identifies this as a file)

Bit 6 0=file has been written

1=file has not been written

Bits 0-5 Drive number (0=A, 1=B, and so on)

If this SFT entry references a device:

Bit 15 Reserved

Bit 14 1=Device can process IOCTL control strings

Bits 8-13 Reserved

Bit 7 1 (Identifies this as a device)

Bit 6 0=Signal end of file on input

Bit 5 0 = "Cooked" mode

1 = "Raw" mode

Bit 4 Reserved

Bit 3 1=Clock Device

Bit 2 1=Null Device

Bit 1 1=Standard output Device

Bit 0      1=Standard input Device  
For a file: Address of the Drive Parameter Block  
For a character device: Address of device header  
Starting cluster of file  
Time stamp (packed format)  
Bits 11-15    Hours (0 through 23)  
Bits 5-10    Minutes (0 through 59)  
Bits 0-4    Seconds divided by 2 (0 through 29)  
Date stamp (packed format)  
Bits 9-15    Year (relative to 1980)  
Bits 5-8    Month (1 through 12)  
Bits 0-4    Day (1 through 31)  
File size in bytes  
Current offset into file (position of file pointer)  
Last cluster accessed, relative to the starting cluster  
(local,nonnetwork files only)  
Number of the sector that contains the file's directory  
entry (local, nonnetwork files only)  
Offset of the file's directory entry within the sector,  
divided by 32 (local, nonnetwork files only)  
Network use only