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BOOT SECTOR & VOLUME BOOT RECORD (VBR) -> logical sector 0
#####
Sector  BPB      Field      Description
offset  offset  length
-----
0x0000          BYTE      EB (JMP)
0x0001          BYTE      ADR (to BOOT LOADER ADDRESS) EB 3C -> JMP 003E
0x0002          BYTE      90 (NOP)
0x0003          8 BYTE     SYSTEM ID, OEM NAME
-----
DOS 2.0 -----BPB BEGIN-
0x000B  0x00      WORD      Bytes per logical sector
0x000D  0x02      BYTE      Logical sectors per cluster
0x000E  0x03      WORD      Reserved logical sectors
0x0010  0x05      BYTE      Number of FATs
0x0011  0x06      WORD      Root directory entries
0x0013  0x08      WORD      Total logical sectors
0x0015  0x0A      BYTE      Media descriptor
0x0016  0x0B      WORD      Logical sectors per FAT
-----
DOS 3.31 -----
0x0018  0x0D      WORD      Physical sectors per track
0x001A  0x0F      WORD      Number of heads
0x001C  0x11      DWORD     Hidden sectors
0x0020  0x15      DWORD     Large total logical sectors
-----
DOS 4.0 -----
0x0024  0x19      BYTE      Physical drive number
0x0025  0x1A      BYTE      Flags etc.
0x0026  0x1B      BYTE      Extended boot signature
0x0027  0x1C      DWORD     Volume serial number
0x002B  0x20      11 BYTE   Volume label
0x0036  0x2B      8 BYTE     File-system type
-----
-----BPB END-----

.....

DOS BOOT LOADER

.....
0x1FE          BYTE      0x55 (Boot sector signature)
0x1FF          BYTE      0xAA
-----
-----BOOT SECTOR END-
0x200          512 BYTE

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```

#####
BOOT SECTOR (512 byte)
-----
00 01 02 03 04 05 06 07-08 09 0A 0B 0C 0D 0E 0F
-----
0000 EB 3C 90 4D 53 44 4F 53-35 2E 30 00 02 02 01 00 .<.MSDOS5.0.....
0010 02 70 00 D0 02 FD 02 00-09 00 02 00 00 00 00 00 .p.....
0020 00 00 00 00 00 00 29 08-19 25 3B 52 45 54 52 4F .....).%;RETRO
0030 43 4D 50 20 20 20 46 41-54 31 32 20 20 20 FA 33 CMP FAT12 .3
0040 C0 8E D0 BC 00 7C 16 07-BB 78 00 36 C5 37 1E 56 ....|...x.6.7.V
0050 16 53 BF 3E 7C B9 0B 00-FC F3 A4 06 1F C6 45 FE .S.>|.....E.
0060 0F 8B 0E 18 EB 3C -> JMP 003E - FA 07 3E 7C FB ...|.M..G...>|.
0070 CD 13 72 79 8B 0E 13 7C ..ry3.9...|t...|
0080 89 0E 20 7C A0 10 7C F7-26 16 7C 03 06 1C 7C 13 ..|..|.&.|...|.
0090 16 1E 7C 03 06 0E 7C 83-D2 00 A3 50 7C 89 16 52 ..|...|....P|..R
00A0 7C A3 49 7C 89 16 4B 7C-B8 20 00 F7 26 11 7C 8B |.I|..K|. ..&|.
00B0 1 0002 0200 Bytes per logical sector (512) ..|.H...I|..K|
00C0 0 02 02 Logical sectors per cluster .....R|.P|...r.
00D0 B 0100 0001 Reserved logical sectors .....r.....}.
00E0 A 02 02 Number of FATs .u... ..t...}
00F0 E 7000 0070 Root directory entries (112) ._.3...^....D...
0100 5 D002 02D0 Total logical sectors (720) F XXX...G.HH...|2.
0110 F FD Media descriptor (DSDD, 360K) ....I|..K|.....
0120 5 0200 0002 Logical sectors per FAT PRQ::r....T.YZX
0130 7 0900 0009 Physical sectors per track r.....|....
0140 1 0200 0002 Number of heads .|..$|..I|..K|...
0150 70 00 AC 0A C0 74 29 B4-0E BB 07 00 CD 10 EB F2 p....t).....
0160 3B 16 18 7C 73 19 F7 36-18 7C FE C2 88 16 4F 7C ;..|s..6.|....O|
0170 33 D2 F7 36 1A 7C 88 16-25 7C A3 4D 7C F8 C3 F9 3..6.|...%|.M|...
0180 C3 B4 02 8B 16 4D 7C B1-06 D2 E6 0A 36 4F 7C 8B .....M|.....60|.
0190 CA 86 E9 8A 16 24 7C 8A-36 25 7C CD 13 C3 0D 0A .....$|.6%|.....
01A0 4B 65 69 6E 20 53 79 73-74 65 6D 20 6F 64 65 72 Kein System oder
01B0 20 4C 61 75 66 77 65 72-6B 73 66 65 68 6C 65 72 Laufwerksfehler
01C0 0D 0A 57 65 63 68 73 65-6C 6E 20 75 6E 64 20 54 ..Wechseln und T
01D0 61 73 74 65 20 64 72 81-63 6B 65 6E 0D 0A 00 49 aste dr.cken..I
01E0 4F 20 20 20 20 20 20 53-59 53 4D 53 44 4F 53 20 O SYMSDOS
01F0 20 20 53 59 53 00 00 00-00 00 00 00 00 00 55 AA SYS.....U.

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