

BIOS begins @ offset 0B into BOOT Sector

BIOS Parameter Block (BPB) Layout

| Byte Offset                      | Field Length | Sample Value | Meaning                                          |
|----------------------------------|--------------|--------------|--------------------------------------------------|
| 00h                              | Word         | 0200         | Number of bytes per sector                       |
| 02h                              | Byte         | 02           | Number of sectors per cluster                    |
| 03h                              | Word         | 0001         | Number of reserved sectors starting at sector 0  |
| 05h                              | Byte         | 02           | Number of FATs                                   |
| 06h                              | Word         | 0070         | Maximum number of root directory entries         |
| 08h                              | Word         | 02D0         | Total number of sectors (or 0 in V3 if > 65,535) |
| 0Ah                              | Byte         | FD           | Media descriptor                                 |
| 0Bh                              | Word         | 0002         | Number of sectors per FAT                        |
| 0Dh                              | Word         | 0009         | Number of sectors per track                      |
| 0Fh                              | Word         | 0002         | Number of heads                                  |
| 11h                              | Double word  | 00000000     | Number of hidden sectors                         |
| 15h                              | 11 bytes     | —            | Reserved (before V3)                             |
| <b>V3 BPB Extension</b>          |              |              |                                                  |
| 15h                              | Double word  | 00000000     | Total number of sectors if word at 08h = 0       |
| 19h                              | 7 bytes      | —            | Reserved (BPB outside boot record area)          |
| <b>V4 Boot Record Extensions</b> |              |              |                                                  |
| 19h                              | Byte         | 00           | Physical drive number                            |
| 1Ah                              | Byte         | 00           | Reserved                                         |
| 1Bh                              | Byte         | 29           | Signature byte for extended boot record          |
| 1Ch                              | Double word  | 203D10CC     | Volume serial number (made from date/time)       |
| 20h                              | 11 bytes     | NO NAME      | Volume label                                     |
| 2Bh                              | 8 bytes      | FAT12        | Reserved                                         |