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e systems (FAT, FAT8, FAT16, Fatalalined

recise manner in which data is organised on a hard d File systems are generally operating system depende PC operating system, most other operating systems'! Microsoft Windows.

The FAT file system was first introduced in the days of MS-File Allocation Table is to provide the mapping between clu a disk at the operating system level – and the physical loca and sectors – the form of addressing used by the drive's ha Recomendado por Transportistas

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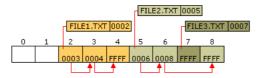
the file system most widely d-compatible

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purpose of the gical storage on nders, tracks

Abrir >

The FAT contains an entry for every file stored on the volume that contains the address of the file's starting cluster. Each cluster contains a pointer to the next cluster in the file, or an end-of-file indicator at (0xFFFF), which indicates that this cluster is the end of the file. The diagram shows three files: File1.txt uses three clusters, File2.txt is a fragmented file that requires three clusters and File3.txt fits in one cluster. In each case, the file allocation table entry points to the first cluster of the file.



The first incarnation of FAT was known as FAT12, which supported a maximum partition size of 8MB. This was superseded in 1984 by FAT16, which increased the maximum partition size to 2GB. FAT16 has undergone a number of minor modifications over the years, for example, enabling it to handle file names longer than the original limitation of 8.3 characters. FAT16's principal limitation is that it imposes a fixed maximum number of clusters per partition, meaning that the bigger the hard disk, the bigger the cluster size and the more unusable space on the drive. The biggest advantage of FAT16 is

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File systems (FAT, FAT8, FAT16, FAT32 and NTFS) explained

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Dating from the Windows 95 OEM Service Release 2 (OSR2), Windows has supported both FAT16 and FAT32. The latter is little more than an extension of the original FAT16 file system that provides for a much larger number of clusters per partition. As such, it offers greatly improved disk utilisation over FAT16. However, FAT32 shares all of the other limitations of FAT16 plus the additional one that many non-Windows operating systems that are FAT16-compatible will not work with FAT32. This makes FAT32 inappropriate for dual-boot environments, although while other operating systems such as Windows NT can't directly read a FAT32 partition, they can read it across the network. It's no problem, therefore, to share information stored on a FAT32 partition with other computers on a network that are running older versions of Windows.

With the advent of Windows XP in October 2001, support was extended to include the NTFS. NTFS is a completely different file system from FAT that was introduced with first version of Windows NT in 1993. Designed to address many of FAT's deficiencies, it provides for greatly increased privacy and security. The Home edition of Windows XP allows users to keep their information private to themselves, while the Professional version supports access control and encryption of individual files and folders. The file system is inherently more resilient than FAT, being less likely to suffer damage in the event of a system crash and it being more likely that any damage is recoverable via the chkdsk.exe utility. NTFS also journalises all file changes, so as to allow the system to be rolled back to an earlier, working state in the event of some catastrophic problem rendering the system inoperable.



Cada coche tiene arañazos, pero pocos conocen este truco para quitarlos.

Todos los coches tienen arañazos, pero s pocos conocen este truco que elimina fác cualquier arañazo y abolladura.

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FAT16, FAT32 and NTFS each use different cluster sizes depending on the size of the volume, and each file system has a maximum number of clusters it can support. The smaller the cluster size, the more efficiently a disk stores information because unused space within a cluster cannot be used by other files; the more clusters supported, the larger the volumes or partitions that can be created.

The table below provides a comparison of volume and default cluster sizes for the different Windows file systems still commonly in use:

	FAT16	FAT32	NTFS
VOLUME SIZE	CLUSTER SIZE	CLUSTER SIZE	CLUSTER SIZE
7MB - 16MB	2KB	Not supported	512 bytes
17MB - 32MB	512 bytes	Not supported	512 bytes
33MB - 64MB	1KB	512 bytes	512 bytes
65MB - 128MB	2KB	1KB	512 bytes
129MB - 256MB	4KB	2KB	512 bytes
257MB - 512MB	8KB	4KB	512 bytes
513MB - 1GB	16KB	4KB	1KB

4GB - 8GB	Not supported	4KB	4KB
8GB - 16GB	Not supported	8KB	4KB
16GB - 32GB	Not supported	16KB	4KB
32GB - 2TB	Not supported	Not supported	4KB

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fat32 theoretically supports till 8TB, but due to limitations it can support till 2TB practically



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the acual difference between fat16 and fat32 needed



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wht dose 16 nd 32 mean in fat......



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16 and 32 stands for the Cluster Bit Size



Unfortunately, there is a factual error present when you state that the first incarnation of FAT was FAT16. FAT8 existed before 16 did.

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