

# Network Filesystems

**NFS** Sun's *Network Filesystem (NFS)* is the preferred method of file sharing for networks of Unix or Linux computers. The Linux kernel includes both NFS client support

**Coda** This is an advanced network filesystem that supports features omitted from NFS. These features include better security (including encryption) and improved caching.

**SMB/CIFS** The *Server Message Block (SMB)* protocol, which has been renamed the *Core Internet Filesystem (CIFS)*, is the usual means of network file sharing among Microsoft OSs. The Linux kernel includes SMB/CIFS client support, so you can mount SMB/CIFS shares. You can configure your Linux computer as an SMB/CIFS server using the Samba package (<http://www.samba.org>). The filesystem type code for SMB/CIFS shares is `smbfs`.

**NCP** The *NetWare Core Protocol (NCP)* is NetWare's file sharing protocol. As with SMB/CIFS, Linux includes basic NCP client support in the kernel, and you can add separate server packages to turn Linux into an NCP server. NCP's filesystem type code is `ncpfs`.