

CS 345 - Operating Systems

```
int getCluster(int fatEntry)
{
    sector = 0

    // Convert fatEntry to byte location
    FatIndex = (fatEntry * 3)/2
    if (fatEntry is even)
        //split FatIndex + 1 for 4 most sig bits
        sector = FAT[FatIndex + 1] & 0x0f
        sector = sector << 8 // shift to correct location
        sector = sector | FAT[FatIndex]
    else
        sector = FAT[FatIndex+1]
        sector = sector << 4 // shift to correct location
        //split FatIndex for 4 least sig bits
        sector = sector | ((FAT[FatIndex] & 0xf0) >> 4)

    return sector + 31
}
```