

The first 440 bytes, from offset 0 to offset 439, contain the **Maser Bootstrap Loader Code**. In this case starting **33 C0 BE**.

At offset 440, for a length of 4 bytes, is the **Windows Disk signature**. In this example it is **2AD42AD4**. This is unique for a drive, and can be considered to be a forensic artifacts.

At offset 446, for a length of 1, is a value which states if the partition (whose location is given shortly) is **active** or not, in this case the value is set to **"80"** which means it is active.

At offset 450, for a length of 1, is the **partition type indicator**. i.e it tells the computer if it should expect an NTFS partition or FAT32, or the like. Each partition type has its own unique number, in this case it is **07**

At offset 454, for a length of 1, is a byte which states the number of sectors preceding the start of the partition 1, i.e the **location of the first partition**. In this example (and most "standard" drives) the value is **3F**, which is 63 in decimal. This means that the partition starts at sector 63 (as the first sector is 0).

At offset 458, for a length of 4, is the **size of the first partition**, in sectors. In this example it is **80CE373A**. This needs to be converted, (hex value is in little endian and needs to be converted to big endian). Giving the hex value of 3A37CE80, this gives the decimal value of 976735872. This is the size in sectors of the first partition, as each partition is 512, the total size of the partition is $512 * 976735872 = 500,088,766,464$ bytes, or 465 GB

Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F		
000000000	33	C0	BE	00	7C	BF	00	7A	8E	D0	8B	E7	8E	D8	8E	C0	3À¾. |ç.zžĐ<çžŒžÀ	
000000010	B9	00	02	FC	F3	A4	EA	1B	7A	00	00	BF	BE	7B	B9	04	¹..üóαê.z..ç¾{¹.	
000000020	00	8B	F7	80	7D	04	00	74	05	80	3D	80	74	3B	83	C7	.<÷€}. .t.€=€t;fç	
000000030	10	E2	EE	EB	21	81	C6	00	7A	BB	07	00	B9	01	00	AC	.âîë!fÆ.z»...¹..¬	
000000040	0A	C0	74	06	B4	0E	CD	10	EB	F5	C3	80	7C	04	00	74	.Àt.´.Í.ëðÃ€|. .t	
000000050	18	80	3C	00	74	13	8B	36	D0	00	E8	D8	FF	BE	D2	00	.€<.t.<6Đ.èØÿ¾Ò.	
000000060	E8	D2	FF	B4	00	CD	16	CD	18	83	C6	10	E2	DD	B8	00	èØÿ´.Í.Í.fÆ.âÝ. .	
000000070	41	BB	AA	55	B2	80	CD	13	72	0C	81	FB	55	AA	75	06	A»ªU²€Í.r.fûUªu.	
000000080	F7	C1	01	00	75	0F	BB	00	02	B8	01	02	8B	4C	02	8B	÷Á..u.»...<L.<	
000000090	14	CD	13	EB	1E	66	6A	00	66	FF	75	08	6A	00	68	00	.Í.ë.fj.fÿu.j.h.	
0000000A0	7C	66	68	10	00	01	00	8B	F4	B8	00	42	B2	80	CD	13	|fh....<ð. .B²€Í.	
0000000B0	83	C4	10	72	A1	81	3E	FE	7D	55	AA	8B	36	CE	00	75	fÄ.r;f>þ}Uª<6Î.u	
0000000C0	99	8B	F7	32	F6	B2	80	EA	00	7C	00	00	01	00	D6	00	™<÷2ö²€ê. |....Ö.	
0000000D0	DE	00	E6	00	EF	00	4E	4F	20	4F	53	0D	0A	00	45	72	Ð.æ.ï.NO OS...Er	
0000000E0	72	6F	72	0D	0A	00	50	72	65	73	73	21	0D	0A	00	46	ror...Press!...F	
0000000F0	31	30	20	00	76	61	6C	69	64	20	4D	61	73	74	65	72	10	.valid Master
000000100	20	42	6F	6F	74	20	52	65	63	6F	72	64	0D	0A	00	50	Boot Record...P	
000000110	72	65	73	73	20	61	20	6B	65	79	20	74	6F	20	63	6F	ress a key to co	
000000120	6E	74	69	6E	75	65	2E	0D	0A	00	00	00	00	00	00	00	ntinue.....	
000000130	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000140	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000150	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000160	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000170	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000180	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000190	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
0000001A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
0000001B0	00	00	00	00	00	00	00	CC	00	2A D4	2A D4	00	00	80	01	.....Ï.*Ô*Ô..e.	
0000001C0	01	00	07	FE	FF	FF	3F	00	00	00	80 CE 37 3A	00	00	00	00	00	...þÿÿ?...€Î7:..	
0000001D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
0000001E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
0000001F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	55	AA	.....Uª