

FAT16

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FAT16 structure

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0x0000	BOOT Starp Code															
0x0010																
0x0020																
0x0030																
0x0040																
0x0050																
0x0060																
0x0070																
0x0080																
0x0090																
0x00A0																
0x00B0																
0x00C0																
0x00D0																
0x00E0																
0x00F0																
0x0100																
0x0110																
0x0120																
0x0130																
0x0140																
0x0150																
0x0160																
0x0170																
0x0180																
0x0190																
0x01A0																
0x01B0																
0x01C0	Partition Entry														First	
0x01D0	Partition Entry														second	
0x01E0	Partition Entry														third	
0x01F0	Partition Entry														fourth	
															55 AA	

```

root@chfIVBox: ~
00000000  33 C0 8E D0 BC 00 7C 8E C0 8E D8 BE 00 7C BF 00 3.....|.....|..
00000010  06 B9 00 02 FC F3 A4 50 68 1C 06 CB FB B9 04 00 .....Ph.....
00000020  BD BE 07 80 7E 00 00 7C 0B 0F 85 10 01 83 C5 10 ....~...|.....
00000030  E2 F1 CD 18 88 56 00 55 C6 46 11 05 C6 46 10 00 .....V.U.F...F..
00000040  B4 41 BB AA 55 CD 13 5D 72 0F 81 FB 55 AA 75 09 .A..U..]r...U.u.
00000050  F7 C1 01 00 74 03 FE 46 10 66 60 80 7E 10 00 74 ....t..F.f`.~..t
00000060  26 66 68 00 00 00 00 66 FF 76 08 68 00 00 68 00 &fh....f.v.h..h.
00000070  7C 68 01 00 68 10 00 B4 42 8A 56 00 8B F4 CD 13 |h..h...B.V.....
00000080  9F 83 C4 10 9E EB 14 B8 01 02 BB 00 7C 8A 56 00 .....|.V.
00000090  8A 76 01 8A 4E 02 8A 6E 03 CD 13 66 61 73 1E FE .v..N..n...fas..
000000A0  4E 11 0F 85 0C 00 80 7E 00 80 0F 84 8A 00 B2 80 N.....~.....
000000B0  EB 82 55 32 E4 8A 56 00 CD 13 5D EB 9C 81 3E FE ..U2..V...]>...
000000C0  7D 55 AA 75 6E FF 76 00 E8 8A 00 0F 85 15 00 B0 }U.un.v.....
000000D0  D1 E6 64 E8 7F 00 B0 DF E6 60 E8 78 00 B0 FF E6 ..d.....`.x....
000000E0  64 E8 71 00 B8 00 BB CD 1A 66 23 C0 75 3B 66 81 d.q.....f#.u;f.
000000F0  FB 54 43 50 41 75 32 81 F9 02 01 72 2C 66 68 07 .TCPAu2....r,fh.
00000100  BB 00 00 66 68 00 02 00 00 66 68 08 00 00 00 66 ...fh....fh....f
00000110  53 66 53 66 55 66 68 00 00 00 00 66 68 00 7C 00 SfSfUfh....fh.|.
00000120  00 66 61 68 00 00 07 CD 1A 5A 32 F6 EA 00 7C 00 .fah.....Z2...|.
00000130  00 CD 18 A0 B7 07 EB 08 A0 B6 07 EB 03 A0 B5 07 .....
00000140  32 E4 05 00 07 8B F0 AC 3C 00 74 FC BB 07 00 B4 2.....<.t....
00000150  0E CD 10 EB F2 2B C9 E4 64 EB 00 24 02 E0 F8 24 .....+..d..$...$
00000160  02 C3 49 6E 76 61 6C 69 64 20 70 61 72 74 69 74 ..Invalid partit
00000170  69 6F 6E 20 74 61 62 6C 65 00 45 72 72 6F 72 20 ion table.Error
00000180  6C 6F 61 64 69 6E 67 20 6F 70 65 72 61 74 69 6E loading operatin
00000190  67 20 73 79 73 74 65 6D 00 4D 69 73 73 69 6E 67 g system.Missing
000001A0  20 6F 70 65 72 61 74 69 6E 67 20 73 79 73 74 65 operating syste
000001B0  6D 00 00 00 00 62 7A 99 DA D3 C7 5F 00 00 00 02 m....bz...._....
000001C0  03 00 06 28 A8 06 8C 00 00 00 00 E8 1F 00 00 00 ...(.
000001D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000001E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000001F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 55 AA .....U.
--- sdb --0x0/0x40000000-----

```

0x80 * 0x200 = 0x10000

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0x0000	JUMP to bootstrap code			OEM text (MSDOS5.0)									Bytes per sector		Sectors per Cluster	Reserved sectors	
0x0010	Number of FATs	Root Entries		Small sectors		Media type	Sectors per FAT		Sectors per track		Number of Heads		Hidden Sectors				
0x0020	Large sectors				Physical Disk Number	Current Head	Signature (0x28 or 0x29)	Volume Serial Number				Volume					
0x0030	Label						System ID										
0x0040	BOOT Starp Code																
0x0050																	
0x0060																	
0x0070																	
0x0080																	
0x0090																	
0x00A0																	
0x00B0																	
0x00C0																	
0x00D0																	
0x00E0																	
0x00F0																	
0x0100																	
0x0110																	
0x0120																	
0x0130																	
0x0140																	
0x0150																	
0x0160																	
0x0170																	
0x0180																	
0x0190																	
0x01A0																	
0x01B0																	
0x01C0																	
0x01D0																	
0x01E0																	
0x01F0																	

55AA

```

root@chfIVBox: ~
00010000 EB 3C 90 4D 53 44 4F 53 35 2E 30 00 02 20 08 00 .<.MSDOS5.0.. ..
00010010 02 00 02 00 00 F8 00 01 3F 00 40 00 80 00 00 00 .....?.@.....
00010020 00 E8 1F 00 80 00 29 97 81 89 24 4E 4F 20 4E 41 .....)$NO NA
00010030 4D 45 20 20 20 20 46 41 54 31 36 20 20 20 33 C9 ME FAT16 3.
00010040 8E D1 BC F0 7B 8E D9 B8 00 20 8E C0 FC BD 00 7C ....{....|
00010050 38 4E 24 7D 24 8B C1 99 E8 3C 01 72 1C 83 EB 3A 8N$}$$.<.r...:
00010060 66 A1 1C 7C 26 66 3B 07 26 8A 57 FC 75 06 80 CA f..|&f;.&.W.u...
00010070 02 88 56 02 80 C3 10 73 EB 33 C9 8A 46 10 98 F7 ..V....s.3..F...
00010080 66 16 03 46 1C 13 56 1E 03 46 0E 13 D1 8B 76 11 f..F..V..F....v.
00010090 60 89 46 FC 89 56 FE B8 20 00 F7 E6 8B 5E 0B 03 `.F..V.. ....^..
000100A0 C3 48 F7 F3 01 46 FC 11 4E FE 61 BF 00 00 E8 E6 .H...F..N.a....
000100B0 00 72 39 26 38 2D 74 17 60 B1 0B BE A1 7D F3 A6 .r9&8-t.`....}..
000100C0 61 74 32 4E 74 09 83 C7 20 3B FB 72 E6 EB DC A0 at2Nt... ;.r....
000100D0 FB 7D B4 7D 8B F0 AC 98 40 74 0C 48 74 13 B4 0E .}.}....@t.Ht...
000100E0 BB 07 00 CD 10 EB EF A0 FD 7D EB E6 A0 FC 7D EB .....}....}.
000100F0 E1 CD 16 CD 19 26 8B 55 1A 52 B0 01 BB 00 00 E8 .....&.U.R.....
00010100 3B 00 72 E8 5B 8A 56 24 BE 0B 7C 8B FC C7 46 F0 ;.r.[.V$..|...F.
00010110 3D 7D C7 46 F4 29 7D 8C D9 89 4E F2 89 4E F6 C6 =}.F.))...N..N..
00010120 06 96 7D CB EA 03 00 00 20 0F B6 C8 66 8B 46 F8 ..}.....f.F.
00010130 66 03 46 1C 66 8B D0 66 C1 EA 10 EB 5E 0F B6 C8 f.F.f..f....^...
00010140 4A 4A 8A 46 0D 32 E4 F7 E2 03 46 FC 13 56 FE EB JJ.F.2....F..V..
00010150 4A 52 50 06 53 6A 01 6A 10 91 8B 46 18 96 92 33 JRP.Sj.j...F...3
00010160 D2 F7 F6 91 F7 F6 42 87 CA F7 76 1A 8A F2 8A E8 .....B...v.....
00010170 C0 CC 02 0A CC B8 01 02 80 7E 02 0E 75 04 B4 42 .....~...u..B
00010180 8B F4 8A 56 24 CD 13 61 61 72 0B 40 75 01 42 03 ...V$..aar.@u.B.
00010190 5E 0B 49 75 06 F8 C3 41 BB 00 00 60 66 6A 00 EB ^.Iu...A...`fj..
000101A0 B0 42 4F 4F 54 4D 47 52 20 20 20 20 0D 0A 52 65 .BOOTMGR ..Re
000101B0 6D 6F 76 65 20 64 69 73 6B 73 20 6F 72 20 6F 74 move disks or ot
000101C0 68 65 72 20 6D 65 64 69 61 2E FF 0D 0A 44 69 73 her media....Dis
000101D0 6B 20 65 72 72 6F 72 FF 0D 0A 50 72 65 73 73 20 k error...Press
000101E0 61 6E 79 20 6B 65 79 20 74 6F 20 72 65 73 74 61 any key to resta
000101F0 72 74 0D 0A 00 00 00 00 00 00 00 AC CB D8 55 AA rt.....U.
--- sdb --0x10000/0x40000000-----

```

cluster size = 0x0200 * 0x20 = 0x4000
reserved sectors = 0x0200 * 0x08 = 0x1000

```
root@chfIVBox: ~
00011000  F8 FF FF FF FF FF 04 00 05 00 06 00 07 00 08 00 .....
00011010  09 00 0A 00 0B 00 0C 00 0D 00 0E 00 0F 00 10 00 .....
00011020  11 00 12 00 13 00 14 00 15 00 16 00 17 00 18 00 .....
00011030  19 00 1A 00 1B 00 1C 00 1D 00 1E 00 1F 00 20 00 .....
00011040  21 00 22 00 23 00 24 00 25 00 26 00 27 00 28 00 !."#.$.%&.'.(.
00011050  29 00 2A 00 2B 00 2C 00 2D 00 2E 00 2F 00 30 00 ).*+.,-.../.0.
00011060  31 00 32 00 33 00 34 00 35 00 36 00 37 00 38 00 1.2.3.4.5.6.7.8.
00011070  39 00 3A 00 3B 00 3C 00 3D 00 3E 00 3F 00 40 00 9.:.;.<.=.>.?.@.
00011080  41 00 42 00 FF FF 44 00 45 00 46 00 47 00 48 00 A.B...D.E.F.G.H.
00011090  49 00 4A 00 4B 00 4C 00 4D 00 4E 00 4F 00 50 00 I.J.K.L.M.N.O.P.
000110A0  51 00 52 00 53 00 54 00 55 00 56 00 57 00 58 00 Q.R.S.T.U.V.W.X.
000110B0  59 00 5A 00 5B 00 5C 00 5D 00 5E 00 5F 00 60 00 Y.Z.[.\.].^._.`.
000110C0  61 00 62 00 63 00 64 00 65 00 66 00 67 00 68 00 a.b.c.d.e.f.g.h.
000110D0  69 00 6A 00 6B 00 6C 00 6D 00 6E 00 6F 00 70 00 i.j.k.l.m.n.o.p.
000110E0  71 00 72 00 73 00 74 00 75 00 76 00 77 00 78 00 q.r.s.t.u.v.w.x.
000110F0  79 00 7A 00 7B 00 7C 00 7D 00 7E 00 7F 00 80 00 y.z.{.|.}.~.....
00011100  81 00 82 00 FF FF 84 00 85 00 86 00 87 00 88 00 .....
00011110  89 00 8A 00 8B 00 8C 00 8D 00 8E 00 8F 00 90 00 .....
00011120  91 00 92 00 93 00 94 00 95 00 96 00 97 00 98 00 .....
00011130  99 00 9A 00 9B 00 9C 00 9D 00 9E 00 9F 00 A0 00 .....
00011140  A1 00 A2 00 A3 00 A4 00 A5 00 A6 00 A7 00 A8 00 .....
00011150  A9 00 AA 00 AB 00 AC 00 AD 00 AE 00 AF 00 B0 00 .....
00011160  B1 00 B2 00 B3 00 B4 00 B5 00 B6 00 B7 00 B8 00 .....
00011170  B9 00 BA 00 BB 00 BC 00 BD 00 BE 00 BF 00 C0 00 .....
00011180  C1 00 C2 00 FF FF FF FF C5 00 C6 00 C7 00 C8 00 .....
00011190  C9 00 CA 00 CB 00 CC 00 CD 00 CE 00 CF 00 D0 00 .....
000111A0  D1 00 D2 00 D3 00 D4 00 D5 00 D6 00 D7 00 D8 00 .....
000111B0  D9 00 DA 00 DB 00 DC 00 DD 00 DE 00 DF 00 E0 00 .....
000111C0  E1 00 E2 00 E3 00 E4 00 E5 00 E6 00 E7 00 E8 00 .....
000111D0  E9 00 EA 00 EB 00 EC 00 ED 00 EE 00 EF 00 F0 00 .....
000111E0  F1 00 F2 00 F3 00 F4 00 F5 00 F6 00 F7 00 F8 00 .....
000111F0  F9 00 FA 00 FB 00 FC 00 FD 00 FE 00 FF 00 00 01 .....
--- sdb --0x11000/0x40000000-----
```



```
root@chfiVBox: ~
00031000  F8 FF FF FF FF FF 04 00 05 00 06 00 07 00 08 00 .....
00031010  09 00 0A 00 0B 00 0C 00 0D 00 0E 00 0F 00 10 00 .....
00031020  11 00 12 00 13 00 14 00 15 00 16 00 17 00 18 00 .....
00031030  19 00 1A 00 1B 00 1C 00 1D 00 1E 00 1F 00 20 00 .....
00031040  21 00 22 00 23 00 24 00 25 00 26 00 27 00 28 00 !."#$%&'.(.
00031050  29 00 2A 00 2B 00 2C 00 2D 00 2E 00 2F 00 30 00 ).*+.,-.../.0.
00031060  31 00 32 00 33 00 34 00 35 00 36 00 37 00 38 00 1.2.3.4.5.6.7.8.
00031070  39 00 3A 00 3B 00 3C 00 3D 00 3E 00 3F 00 40 00 9.:.;<.=.>.?@.
00031080  41 00 42 00 FF FF 44 00 45 00 46 00 47 00 48 00 A.B...D.E.F.G.H.
00031090  49 00 4A 00 4B 00 4C 00 4D 00 4E 00 4F 00 50 00 I.J.K.L.M.N.O.P.
000310A0  51 00 52 00 53 00 54 00 55 00 56 00 57 00 58 00 Q.R.S.T.U.V.W.X.
000310B0  59 00 5A 00 5B 00 5C 00 5D 00 5E 00 5F 00 60 00 Y.Z.[.\.].^._.`.
000310C0  61 00 62 00 63 00 64 00 65 00 66 00 67 00 68 00 a.b.c.d.e.f.g.h.
000310D0  69 00 6A 00 6B 00 6C 00 6D 00 6E 00 6F 00 70 00 i.j.k.l.m.n.o.p.
000310E0  71 00 72 00 73 00 74 00 75 00 76 00 77 00 78 00 q.r.s.t.u.v.w.x.
000310F0  79 00 7A 00 7B 00 7C 00 7D 00 7E 00 7F 00 80 00 y.z.{.|.}.~.....
00031100  81 00 82 00 FF FF 84 00 85 00 86 00 87 00 88 00 .....
00031110  89 00 8A 00 8B 00 8C 00 8D 00 8E 00 8F 00 90 00 .....
00031120  91 00 92 00 93 00 94 00 95 00 96 00 97 00 98 00 .....
00031130  99 00 9A 00 9B 00 9C 00 9D 00 9E 00 9F 00 A0 00 .....
00031140  A1 00 A2 00 A3 00 A4 00 A5 00 A6 00 A7 00 A8 00 .....
00031150  A9 00 AA 00 AB 00 AC 00 AD 00 AE 00 AF 00 B0 00 .....
00031160  B1 00 B2 00 B3 00 B4 00 B5 00 B6 00 B7 00 B8 00 .....
00031170  B9 00 BA 00 BB 00 BC 00 BD 00 BE 00 BF 00 C0 00 .....
00031180  C1 00 C2 00 FF FF FF FF C5 00 C6 00 C7 00 C8 00 .....
00031190  C9 00 CA 00 CB 00 CC 00 CD 00 CE 00 CF 00 D0 00 .....
000311A0  D1 00 D2 00 D3 00 D4 00 D5 00 D6 00 D7 00 D8 00 .....
000311B0  D9 00 DA 00 DB 00 DC 00 DD 00 DE 00 DF 00 E0 00 .....
000311C0  E1 00 E2 00 E3 00 E4 00 E5 00 E6 00 E7 00 E8 00 .....
000311D0  E9 00 EA 00 EB 00 EC 00 ED 00 EE 00 EF 00 F0 00 .....
000311E0  F1 00 F2 00 F3 00 F4 00 F5 00 F6 00 F7 00 F8 00 .....
000311F0  F9 00 FA 00 FB 00 FC 00 FD 00 FE 00 FF 00 00 01 .....
--- sdb --0x31000/0x40000000-----
```

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0x0000	Filename (8+3)											Attribu tes: 00AD VSHR	reserv ed	create time milise c	create time	
0x0010	Create date		Last access date		0x0000 if FAT16/12, high bytes of start cluster if FAT32		Last Modified Time		Last Modified Date		Start Cluster		Filesize			

```

root@chfiVBox: ~
00051000  45 56 49 44 46 41 54 31 36 20 20 08 00 00 00 00 EVIDFAT16 .....
00051010  00 00 00 00 00 00 AE 5A D2 3E 00 00 00 00 00 00 .....Z.>.....
00051020  4D 41 49 4C 32 4B 37 20 20 20 20 10 08 BA D3 5A MAIL2K7 ....Z
00051030  D2 3E D2 3E 00 00 78 2F B8 42 02 00 00 00 00 00 .>.>...x/.B.....
00051040  4D 41 49 4C 32 4B 31 30 20 20 20 10 08 03 D4 5A MAIL2K10 ....Z
00051050  D2 3E D2 3E 00 00 78 2F B8 42 C3 00 00 00 00 00 .>.>...x/.B.....
00051060  4D 41 49 4C 32 4B 31 33 20 20 20 10 08 29 D4 5A MAIL2K13 ..).Z
00051070  D2 3E D2 3E 00 00 78 2F B8 42 6B 02 00 00 00 00 .>.>...x/.Bk.....
00051080  4D 41 49 4C 39 37 20 20 20 20 20 10 08 32 D4 5A MAIL97 ..2.Z
00051090  D2 3E D2 3E 00 00 78 2F B8 42 CC 02 00 00 00 00 .>.>...x/.B.....
000510A0  50 44 46 20 20 20 20 20 20 20 20 10 08 40 D4 5A PDF ..@.Z
000510B0  D2 3E D2 3E 00 00 78 2F B8 42 30 03 00 00 00 00 .>.>...x/.B0.....
000510C0  44 4F 43 20 20 20 20 20 20 20 20 10 08 6D D4 5A DOC ..m.Z
000510D0  D2 3E D2 3E 00 00 78 2F B8 42 2B 04 00 00 00 00 .>.>...x/.B+.....
000510E0  4B 45 50 45 4B 20 20 20 20 20 20 10 08 AC D4 5A KEPEK ....Z
000510F0  D2 3E D2 3E 00 00 96 5B 96 43 65 06 00 00 00 00 .>.>...[.Ce.....
00051100  52 4F 4F 54 46 49 4C 45 54 58 54 20 18 C0 D8 5A ROOTFILETXT ...Z
00051110  D2 3E D2 3E 00 00 9D 4E D2 3E 26 07 26 00 00 00 .>.>...N.>&.&...
00051120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb --0x51000/0x40000000-----

```

$$0x0726 * 2 = 0xE4C$$

$$(0x0726 - 1) * 0x20 * 0x0200 + 0x051000 = 0x01CE5000$$


```
root@chfiVBox: ~
00011E00  01 07 02 07 03 07 04 07 05 07 06 07 07 07 08 07 .....
00011E10  09 07 0A 07 0B 07 0C 07 0D 07 0E 07 0F 07 10 07 .....
00011E20  11 07 12 07 13 07 14 07 15 07 16 07 17 07 18 07 .....
00011E30  19 07 1A 07 1B 07 1C 07 1D 07 1E 07 1F 07 20 07 .....
00011E40  21 07 FF FF 23 07 24 07 FF FF FF FF FF FF 00 00 !...#.$.....
00011E50  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011E60  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011E70  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011E80  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011E90  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011EA0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011EB0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011EC0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011ED0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011EE0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011EF0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011F00  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011F10  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011F20  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011F30  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011F40  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011F50  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011F60  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011F70  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011F80  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011F90  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011FA0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011FB0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011FC0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011FD0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011FE0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011FF0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb --0x11E48/0x40000000-----
```

```
root@chfiVBox: ~
00031E00  01 07 02 07 03 07 04 07 05 07 06 07 07 07 08 07 .....
00031E10  09 07 0A 07 0B 07 0C 07 0D 07 0E 07 0F 07 10 07 .....
00031E20  11 07 12 07 13 07 14 07 15 07 16 07 17 07 18 07 .....
00031E30  19 07 1A 07 1B 07 1C 07 1D 07 1E 07 1F 07 20 07 .....
00031E40  21 07 FF FF 23 07 24 07 FF FF FF FF FF FF 00 00 !...#.$.....
00031E50  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031E60  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031E70  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031E80  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031E90  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031EA0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031EB0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031EC0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031ED0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031EE0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031EF0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031F00  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031F10  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031F20  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031F30  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031F40  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031F50  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031F60  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031F70  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031F80  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031F90  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031FA0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031FB0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031FC0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031FD0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031FE0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031FF0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb      --0x31E48/0x40000000-----
```

```
root@chfivBox: ~
01CE5000  54 48 49 53 20 46 49 4C 45 20 49 53 20 49 4E 20 THIS FILE IS IN
01CE5010  54 48 45 20 52 4F 4F 54 20 44 49 52 45 43 54 4F THE ROOT DIRECTO
01CE5020  52 59 0D 0A 0D 0A 00 00 00 00 00 00 00 00 00 00 RY.....
01CE5030  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5040  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5050  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5060  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5070  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5080  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5090  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5110  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb      --0x1CE51F0/0x40000000-----
```

Then find a file within a directory

```

root@chfIVBox: ~
00051000  45 56 49 44 46 41 54 31 36 20 20 08 00 00 00 00 EVIDFAT16 .....
00051010  00 00 00 00 00 00 AE 5A D2 3E 00 00 00 00 00 00 .....Z.>.....
00051020  4D 41 49 4C 32 4B 37 20 20 20 20 10 08 BA D3 5A MAIL2K7 ....Z
00051030  D2 3E D2 3E 00 00 78 2F B8 42 02 00 00 00 00 00 .>.>..x/.B.....
00051040  4D 41 49 4C 32 4B 31 30 20 20 20 10 08 03 D4 5A MAIL2K10 ....Z
00051050  D2 3E D2 3E 00 00 78 2F B8 42 C3 00 00 00 00 00 00 .>.>..x/.B.....
00051060  4D 41 49 4C 32 4B 31 33 20 20 20 10 08 29 D4 5A MAIL2K13 ..).Z
00051070  D2 3E D2 3E 00 00 78 2F B8 42 6B 02 00 00 00 00 00 .>.>..x/.Bk.....
00051080  4D 41 49 4C 39 37 20 20 20 20 20 10 08 32 D4 5A MAIL97 ..2.Z
00051090  D2 3E D2 3E 00 00 78 2F B8 42 CC 02 00 00 00 00 00 .>.>..x/.B.....
000510A0  50 44 46 20 20 20 20 20 20 20 20 10 08 40 D4 5A PDF ..@.Z
000510B0  D2 3E D2 3E 00 00 78 2F B8 42 30 03 00 00 00 00 00 .>.>..x/.B0.....
000510C0  44 4F 43 20 20 20 20 20 20 20 20 10 08 6D D4 5A DOC ..m.Z
000510D0  D2 3E D2 3E 00 00 78 2F B8 42 2B 04 00 00 00 00 00 .>.>..x/.B+.....
000510E0  4B 45 50 45 4B 20 20 20 20 20 20 10 08 AC D4 5A KEPEK ....Z
000510F0  D2 3E D2 3E 00 00 96 5B 96 43 65 06 00 00 00 00 .>.>...[.Ce.....
00051100  52 4F 4F 54 46 49 4C 45 54 58 54 20 18 C0 D8 5A ROOTFILETXT ...Z
00051110  D2 3E D2 3E 00 00 9D 4E D2 3E 26 07 26 00 00 00 .>.>...N.>&...
00051120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb --0x51048/0x40000000-----

```

$$0x0665 * 2 = 0x0CCA$$

$$(0x0665 - 1) * 0x20 * 0x200 + 0x51000 = 0x019E1000$$


```
root@chfiVBox: ~
00011C00  01 06 02 06 03 06 04 06 05 06 06 06 07 06 08 06 .....
00011C10  09 06 0A 06 0B 06 0C 06 0D 06 0E 06 0F 06 10 06 .....
00011C20  11 06 12 06 13 06 14 06 15 06 16 06 17 06 18 06 .....
00011C30  19 06 1A 06 1B 06 1C 06 1D 06 1E 06 1F 06 20 06 .....
00011C40  21 06 22 06 23 06 24 06 25 06 26 06 27 06 28 06 !."#$%&'.(.
00011C50  29 06 2A 06 2B 06 2C 06 2D 06 2E 06 2F 06 30 06 ).*+.,-.../.0.
00011C60  31 06 32 06 33 06 34 06 35 06 36 06 37 06 38 06 1.2.3.4.5.6.7.8.
00011C70  39 06 3A 06 3B 06 3C 06 3D 06 3E 06 3F 06 40 06 9.:.;.<.=.>.?@.
00011C80  FF FF 42 06 43 06 44 06 45 06 46 06 47 06 48 06 ..B.C.D.E.F.G.H.
00011C90  49 06 4A 06 4B 06 4C 06 4D 06 4E 06 4F 06 50 06 I.J.K.L.M.N.O.P.
00011CA0  51 06 52 06 53 06 54 06 55 06 56 06 57 06 58 06 Q.R.S.T.U.V.W.X.
00011CB0  59 06 5A 06 5B 06 5C 06 5D 06 5E 06 5F 06 60 06 Y.Z.[.\.].^._.`.
00011CC0  61 06 62 06 63 06 64 06 FF FF FF FF 67 06 68 06 a.b.c.d....g.h.
00011CD0  69 06 6A 06 6B 06 6C 06 6D 06 6E 06 6F 06 70 06 i.j.k.l.m.n.o.p.
00011CE0  71 06 72 06 73 06 74 06 75 06 76 06 FF FF 78 06 q.r.s.t.u.v...x.
00011CF0  79 06 7A 06 7B 06 7C 06 7D 06 7E 06 7F 06 80 06 y.z.{.|.}.~.....
00011D00  81 06 82 06 83 06 84 06 85 06 86 06 87 06 88 06 .....
00011D10  89 06 8A 06 8B 06 8C 06 8D 06 8E 06 8F 06 90 06 .....
00011D20  91 06 92 06 93 06 94 06 95 06 96 06 97 06 98 06 .....
00011D30  99 06 9A 06 9B 06 9C 06 9D 06 9E 06 9F 06 A0 06 .....
00011D40  A1 06 A2 06 A3 06 A4 06 A5 06 A6 06 A7 06 A8 06 .....
00011D50  A9 06 AA 06 AB 06 AC 06 AD 06 AE 06 AF 06 B0 06 .....
00011D60  B1 06 B2 06 B3 06 B4 06 B5 06 B6 06 B7 06 B8 06 .....
00011D70  B9 06 BA 06 BB 06 BC 06 BD 06 BE 06 BF 06 C0 06 .....
00011D80  C1 06 C2 06 C3 06 C4 06 C5 06 C6 06 C7 06 C8 06 .....
00011D90  C9 06 CA 06 CB 06 CC 06 CD 06 CE 06 CF 06 D0 06 .....
00011DA0  D1 06 D2 06 D3 06 D4 06 D5 06 D6 06 D7 06 D8 06 .....
00011DB0  D9 06 DA 06 DB 06 DC 06 DD 06 DE 06 DF 06 E0 06 .....
00011DC0  E1 06 E2 06 E3 06 E4 06 E5 06 E6 06 E7 06 E8 06 .....
00011DD0  E9 06 EA 06 EB 06 EC 06 ED 06 EE 06 EF 06 F0 06 .....
00011DE0  F1 06 F2 06 F3 06 F4 06 F5 06 F6 06 F7 06 F8 06 .....
00011DF0  F9 06 FA 06 FB 06 FC 06 FD 06 FE 06 FF 06 00 07 .....
--- sdb --0x11CCA/0x40000000-----
```



```
root@chfIVBox: ~
00031C00 01 06 02 06 03 06 04 06 05 06 06 06 07 06 08 06 .....
00031C10 09 06 0A 06 0B 06 0C 06 0D 06 0E 06 0F 06 10 06 .....
00031C20 11 06 12 06 13 06 14 06 15 06 16 06 17 06 18 06 .....
00031C30 19 06 1A 06 1B 06 1C 06 1D 06 1E 06 1F 06 20 06 .....
00031C40 21 06 22 06 23 06 24 06 25 06 26 06 27 06 28 06 !."#$%&'.(.
00031C50 29 06 2A 06 2B 06 2C 06 2D 06 2E 06 2F 06 30 06 ).*+.,-.../.0.
00031C60 31 06 32 06 33 06 34 06 35 06 36 06 37 06 38 06 1.2.3.4.5.6.7.8.
00031C70 39 06 3A 06 3B 06 3C 06 3D 06 3E 06 3F 06 40 06 9.:.;.<.=.>.?.@.
00031C80 FF FF 42 06 43 06 44 06 45 06 46 06 47 06 48 06 ..B.C.D.E.F.G.H.
00031C90 49 06 4A 06 4B 06 4C 06 4D 06 4E 06 4F 06 50 06 I.J.K.L.M.N.O.P.
00031CA0 51 06 52 06 53 06 54 06 55 06 56 06 57 06 58 06 Q.R.S.T.U.V.W.X.
00031CB0 59 06 5A 06 5B 06 5C 06 5D 06 5E 06 5F 06 60 06 Y.Z.[.\.].^._.`.
00031CC0 61 06 62 06 63 06 64 06 FF FF FF FF 67 06 68 06 a.b.c.d....g.h.
00031CD0 69 06 6A 06 6B 06 6C 06 6D 06 6E 06 6F 06 70 06 i.j.k.l.m.n.o.p.
00031CE0 71 06 72 06 73 06 74 06 75 06 76 06 FF FF 78 06 q.r.s.t.u.v...x.
00031CF0 79 06 7A 06 7B 06 7C 06 7D 06 7E 06 7F 06 80 06 y.z.{.|.}.~.....
00031D00 81 06 82 06 83 06 84 06 85 06 86 06 87 06 88 06 .....
00031D10 89 06 8A 06 8B 06 8C 06 8D 06 8E 06 8F 06 90 06 .....
00031D20 91 06 92 06 93 06 94 06 95 06 96 06 97 06 98 06 .....
00031D30 99 06 9A 06 9B 06 9C 06 9D 06 9E 06 9F 06 A0 06 .....
00031D40 A1 06 A2 06 A3 06 A4 06 A5 06 A6 06 A7 06 A8 06 .....
00031D50 A9 06 AA 06 AB 06 AC 06 AD 06 AE 06 AF 06 B0 06 .....
00031D60 B1 06 B2 06 B3 06 B4 06 B5 06 B6 06 B7 06 B8 06 .....
00031D70 B9 06 BA 06 BB 06 BC 06 BD 06 BE 06 BF 06 C0 06 .....
00031D80 C1 06 C2 06 C3 06 C4 06 C5 06 C6 06 C7 06 C8 06 .....
00031D90 C9 06 CA 06 CB 06 CC 06 CD 06 CE 06 CF 06 D0 06 .....
00031DA0 D1 06 D2 06 D3 06 D4 06 D5 06 D6 06 D7 06 D8 06 .....
00031DB0 D9 06 DA 06 DB 06 DC 06 DD 06 DE 06 DF 06 E0 06 .....
00031DC0 E1 06 E2 06 E3 06 E4 06 E5 06 E6 06 E7 06 E8 06 .....
00031DD0 E9 06 EA 06 EB 06 EC 06 ED 06 EE 06 EF 06 F0 06 .....
00031DE0 F1 06 F2 06 F3 06 F4 06 F5 06 F6 06 F7 06 F8 06 .....
00031DF0 F9 06 FA 06 FB 06 FC 06 FD 06 FE 06 FF 06 00 07 .....
--- sdb --0x31CCA/0x40000000-----
```

```

root@chfivBox: ~
019E1000  2E 20 20 20 20 20 20 20 20 20 20 10 00 AC D4 5A . ....Z
019E1010  D2 3E D2 3E 00 00 D5 5A D2 3E 65 06 00 00 00 00 .>.>...Z.>e.....
019E1020  2E 2E 20 20 20 20 20 20 20 20 20 10 00 AC D4 5A .. ....Z
019E1030  D2 3E D2 3E 00 00 D5 5A D2 3E 00 00 00 00 00 00 00 00 .>.>...Z.>.....
019E1040  46 4C 4F 57 45 52 20 20 4A 50 47 20 18 B1 D4 5A FLOWER JPG ...Z
019E1050  D2 3E D2 3E 00 00 CA 5A 96 43 66 06 7C 1F 04 00 .>.>...Z.Cf.|...
019E1060  4B 45 50 31 20 20 20 20 4A 50 47 20 18 B3 D4 5A KEP1 JPG ...Z
019E1070  D2 3E D2 3E 00 00 ED 5E 7A 3D 77 06 31 86 2A 00 .>.>...^z=w.1.*.
019E1080  4B 45 50 32 20 20 20 20 4A 50 47 20 18 04 D5 5A KEP2 JPG ...Z
019E1090  D2 3E D2 3E 00 00 2E 6D 32 40 22 07 C2 8D 00 00 .>.>...m2@".....
019E10A0  41 54 00 68 00 75 00 6D 00 62 00 0F 00 A4 73 00 AT.h.u.m.b....s.
019E10B0  2E 00 64 00 62 00 00 00 FF FF 00 00 FF FF FF FF ..d.b.....
019E10C0  54 48 55 4D 42 53 20 20 44 42 20 26 00 05 D5 5A THUMBS DB &...Z
019E10D0  D2 3E D2 3E 00 00 B3 26 7E 41 25 07 00 26 00 00 .>.>...&~A%..&..
019E10E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E10F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1110  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb --0x19E1000/0x40000000-----

```

$$0x11000 + 0x0666 * 2 = 0x011CCC$$

$$0x31000 + 0x0666 * 2 = 0x031CCC$$

$$(0x0666 - 1) * 0x20 * 0x0200 + 0x51000 = 0x019E5000$$

$$\text{int}(0x00041F7C / (0x20 * 0x0200)) = 0x10$$

$$0x00041F7C \bmod (0x20 * 0x0200) = 0x1F7C$$

```

root@chfIVBox: ~
00011C00 01 06 02 06 03 06 04 06 05 06 06 06 07 06 08 06 .....
00011C10 09 06 0A 06 0B 06 0C 06 0D 06 0E 06 0F 06 10 06 .....
00011C20 11 06 12 06 13 06 14 06 15 06 16 06 17 06 18 06 .....
00011C30 19 06 1A 06 1B 06 1C 06 1D 06 1E 06 1F 06 20 06 .....
00011C40 21 06 22 06 23 06 24 06 25 06 26 06 27 06 28 06 !."#$%&'.(
00011C50 29 06 2A 06 2B 06 2C 06 2D 06 2E 06 2F 06 30 06 ).*+.,-.../.0
00011C60 31 06 32 06 33 06 34 06 35 06 36 06 37 06 38 06 1.2.3.4.5.6.7.8
00011C70 39 06 3A 06 3B 06 3C 06 3D 06 3E 06 3F 06 40 06 9.:.;.<.=.>.?@
00011C80 FF FF 42 06 43 06 44 06 45 06 46 06 47 06 48 06 ..B.C.D.E.F.G.H
00011C90 49 06 4A 06 4B 06 4C 06 4D 06 4E 06 4F 06 50 06 I.J.K.L.M.N.O.P
00011CA0 51 06 52 06 53 06 54 06 55 06 56 06 57 06 58 06 Q.R.S.T.U.V.W.X
00011CB0 59 06 5A 06 5B 06 5C 06 5D 06 5E 06 5F 06 60 06 Y.Z.[.\.].^._.`
00011CC0 61 06 62 06 63 06 64 06 FF FF FF FF 67 06 68 06 a.b.c.d....g.h
00011CD0 69 06 6A 06 6B 06 6C 06 6D 06 6E 06 6F 06 70 06 i.j.k.l.m.n.o.p
00011CE0 71 06 72 06 73 06 74 06 75 06 76 06 FF FF 78 06 q.r.s.t.u.v...x
00011CF0 79 06 7A 06 7B 06 7C 06 7D 06 7E 06 7F 06 80 06 y.z.{.|.}~.....
00011D00 81 06 82 06 83 06 84 06 85 06 86 06 87 06 88 06 .....
00011D10 89 06 8A 06 8B 06 8C 06 8D 06 8E 06 8F 06 90 06 .....
00011D20 91 06 92 06 93 06 94 06 95 06 96 06 97 06 98 06 .....
00011D30 99 06 9A 06 9B 06 9C 06 9D 06 9E 06 9F 06 A0 06 .....
00011D40 A1 06 A2 06 A3 06 A4 06 A5 06 A6 06 A7 06 A8 06 .....
00011D50 A9 06 AA 06 AB 06 AC 06 AD 06 AE 06 AF 06 B0 06 .....
00011D60 B1 06 B2 06 B3 06 B4 06 B5 06 B6 06 B7 06 B8 06 .....
00011D70 B9 06 BA 06 BB 06 BC 06 BD 06 BE 06 BF 06 C0 06 .....
00011D80 C1 06 C2 06 C3 06 C4 06 C5 06 C6 06 C7 06 C8 06 .....
00011D90 C9 06 CA 06 CB 06 CC 06 CD 06 CE 06 CF 06 D0 06 .....
00011DA0 D1 06 D2 06 D3 06 D4 06 D5 06 D6 06 D7 06 D8 06 .....
00011DB0 D9 06 DA 06 DB 06 DC 06 DD 06 DE 06 DF 06 E0 06 .....
00011DC0 E1 06 E2 06 E3 06 E4 06 E5 06 E6 06 E7 06 E8 06 .....
00011DD0 E9 06 EA 06 EB 06 EC 06 ED 06 EE 06 EF 06 F0 06 .....
00011DE0 F1 06 F2 06 F3 06 F4 06 F5 06 F6 06 F7 06 F8 06 .....
00011DF0 F9 06 FA 06 FB 06 FC 06 FD 06 FE 06 FF 06 00 07 .....
--- sdb ---0x11CCA/0x40000000-----

```



```

root@chfiVBox: ~
00031C00  01 06 02 06 03 06 04 06 05 06 06 06 07 06 08 06 .....
00031C10  09 06 0A 06 0B 06 0C 06 0D 06 0E 06 0F 06 10 06 .....
00031C20  11 06 12 06 13 06 14 06 15 06 16 06 17 06 18 06 .....
00031C30  19 06 1A 06 1B 06 1C 06 1D 06 1E 06 1F 06 20 06 .....
00031C40  21 06 22 06 23 06 24 06 25 06 26 06 27 06 28 06 !."#$%&.'.(.
00031C50  29 06 2A 06 2B 06 2C 06 2D 06 2E 06 2F 06 30 06 ).*+.,-.../.0.
00031C60  31 06 32 06 33 06 34 06 35 06 36 06 37 06 38 06 1.2.3.4.5.6.7.8.
00031C70  39 06 3A 06 3B 06 3C 06 3D 06 3E 06 3F 06 40 06 9...;.<.=.>.?.@.
00031C80  FF FF 42 06 43 06 44 06 45 06 46 06 47 06 48 06 ..B.C.D.E.F.G.H.
00031C90  49 06 4A 06 4B 06 4C 06 4D 06 4E 06 4F 06 50 06 I.J.K.L.M.N.O.P.
00031CA0  51 06 52 06 53 06 54 06 55 06 56 06 57 06 58 06 Q.R.S.T.U.V.W.X.
00031CB0  59 06 5A 06 5B 06 5C 06 5D 06 5E 06 5F 06 60 06 Y.Z.[.\.].^._.`.
00031CC0  61 06 62 06 63 06 64 06 FF FF FF FF 67 06 68 06 a.b.c.d....g.h.
00031CD0  69 06 6A 06 6B 06 6C 06 6D 06 6E 06 6F 06 70 06 i.j.k.l.m.n.o.p.
00031CE0  71 06 72 06 73 06 74 06 75 06 76 06 FF FF 78 06 q.r.s.t.u.v...x.
00031CF0  79 06 7A 06 7B 06 7C 06 7D 06 7E 06 7F 06 80 06 y.z.{.|.}.~.....
00031D00  81 06 82 06 83 06 84 06 85 06 86 06 87 06 88 06 .....
00031D10  89 06 8A 06 8B 06 8C 06 8D 06 8E 06 8F 06 90 06 .....
00031D20  91 06 92 06 93 06 94 06 95 06 96 06 97 06 98 06 .....
00031D30  99 06 9A 06 9B 06 9C 06 9D 06 9E 06 9F 06 A0 06 .....
00031D40  A1 06 A2 06 A3 06 A4 06 A5 06 A6 06 A7 06 A8 06 .....
00031D50  A9 06 AA 06 AB 06 AC 06 AD 06 AE 06 AF 06 B0 06 .....
00031D60  B1 06 B2 06 B3 06 B4 06 B5 06 B6 06 B7 06 B8 06 .....
00031D70  B9 06 BA 06 BB 06 BC 06 BD 06 BE 06 BF 06 C0 06 .....
00031D80  C1 06 C2 06 C3 06 C4 06 C5 06 C6 06 C7 06 C8 06 .....
00031D90  C9 06 CA 06 CB 06 CC 06 CD 06 CE 06 CF 06 D0 06 .....
00031DA0  D1 06 D2 06 D3 06 D4 06 D5 06 D6 06 D7 06 D8 06 .....
00031DB0  D9 06 DA 06 DB 06 DC 06 DD 06 DE 06 DF 06 E0 06 .....
00031DC0  E1 06 E2 06 E3 06 E4 06 E5 06 E6 06 E7 06 E8 06 .....
00031DD0  E9 06 EA 06 EB 06 EC 06 ED 06 EE 06 EF 06 F0 06 .....
00031DE0  F1 06 F2 06 F3 06 F4 06 F5 06 F6 06 F7 06 F8 06 .....
00031DF0  F9 06 FA 06 FB 06 FC 06 FD 06 FE 06 FF 06 00 07 .....
--- sdb --0x31CCA/0x40000000-----

```

$$(0x0676 - 1) * 0x20 * 0x0200 + 0x51000 = 0x01A25000$$

$$0x01A25000 + 0x00001F7C = 0x01A26F7C$$

```

root@chfIVBox: ~
019E5000  FF D8 FF E0 00 10 4A 46 49 46 00 01 02 01 01 2C .....JFIF.....,
019E5010  01 2C 00 00 FF E1 15 3D 45 78 69 66 00 00 49 49 .,.....=Exif..II
019E5020  2A 00 08 00 00 00 0B 00 0E 01 02 00 0B 00 00 00 *.....
019E5030  92 00 00 00 0F 01 02 00 06 00 00 00 9D 00 00 00 .....
019E5040  10 01 02 00 06 00 00 00 A3 00 00 00 12 01 03 00 .....
019E5050  01 00 00 00 01 00 00 00 1A 01 05 00 01 00 00 00 .....
019E5060  A9 00 00 00 1B 01 05 00 01 00 00 00 B1 00 00 00 .....
019E5070  28 01 03 00 01 00 00 00 02 00 00 00 31 01 02 00 (.....1...
019E5080  14 00 00 00 B9 00 00 00 32 01 02 00 14 00 00 00 .....2.....
019E5090  CD 00 00 00 13 02 03 00 01 00 00 00 02 00 00 00 .....
019E50A0  69 87 04 00 01 00 00 00 E4 00 00 00 54 03 00 00 i.....T...
019E50B0  20 20 20 20 20 20 20 20 20 20 00 4E 49 4B 4F 4E .NIKON
019E50C0  00 45 34 33 30 30 00 2C 01 00 00 01 00 00 00 2C .E4300.,.....,
019E50D0  01 00 00 01 00 00 00 41 64 6F 62 65 20 50 68 6F .....Adobe Pho
019E50E0  74 6F 73 68 6F 70 20 37 2E 30 00 32 30 30 36 3A toshop 7.0.2006:
019E50F0  30 36 3A 31 36 20 31 39 3A 35 33 3A 31 37 00 00 06:16 19:53:17..
019E5100  00 00 21 00 9A 82 05 00 01 00 00 00 76 02 00 00 ..!.....v...
019E5110  9D 82 05 00 01 00 00 00 7E 02 00 00 22 88 03 00 .....~..."...
019E5120  01 00 00 00 02 00 00 00 27 88 03 00 01 00 00 00 .....'.....
019E5130  64 00 00 00 00 90 07 00 04 00 00 00 30 32 32 30 d.....0220
019E5140  03 90 02 00 14 00 00 00 86 02 00 00 04 90 02 00 .....
019E5150  14 00 00 00 9A 02 00 00 01 91 07 00 04 00 00 00 .....
019E5160  01 02 03 00 02 91 05 00 01 00 00 00 AE 02 00 00 .....
019E5170  04 92 0A 00 01 00 00 00 B6 02 00 00 05 92 05 00 .....
019E5180  01 00 00 00 BE 02 00 00 07 92 03 00 01 00 00 00 .....
019E5190  05 00 00 00 08 92 03 00 01 00 00 00 00 00 00 00 .....
019E51A0  09 92 03 00 01 00 00 00 10 00 00 00 0A 92 05 00 .....
019E51B0  01 00 00 00 C6 02 00 00 86 92 07 00 7D 00 00 00 .....}...
019E51C0  CE 02 00 00 00 A0 07 00 04 00 00 00 30 31 30 30 .....0100
019E51D0  01 A0 03 00 01 00 00 00 01 00 00 00 02 A0 04 00 .....
019E51E0  01 00 00 00 00 04 00 00 03 A0 04 00 01 00 00 00 .....
019E51F0  00 03 00 00 00 A3 07 00 01 00 00 00 03 00 00 00 .....
--- sdb          --0x19E5000/0x40000000-----

```



```

root@chfiVBox: ~
01A25000  FA 2A 52 87 04 A2 95 16 FD 68 48 58 02 62 0B 21 .*R.....hHX.b.!
01A25010  FC 68 A9 3D C8 48 90 0A 3D 11 59 2F 40 1E D0 8E .h.=.H..=.Y/@...
01A25020  37 1E 81 55 69 1D 55 4A 00 ED BD 46 04 04 4E D4 7..Ui.UJ...F..N.
01A25030  08 83 6D E8 28 51 A4 4D DB 7A 1C E2 65 15 EE 31 ..m.(Q.M.z..e..1
01A25040  B9 E5 EB B5 65 42 67 38 94 32 11 49 18 C6 23 8D ....eBg8.2.I..#.
01A25050  F5 43 E9 41 8F 28 BB 8B 09 30 25 2C 17 5A 10 31 .C.A.(...0%,.Z.1
01A25060  E2 72 01 DC CE BE 8C A2 8C E5 DB 02 07 33 F8 30 .r.....3.0
01A25070  DE A4 83 8C 50 39 1C 5B 6F 5A 8C 00 23 9A 13 22 ....P9.[oZ..#.."
01A25080  6F A5 AE 68 42 24 01 07 24 38 57 6F 51 44 86 E6 o..hB$...$8woQD..
01A25090  91 88 2E 37 65 FB AB 04 63 1F 94 21 1D 17 5F 4A ...7e...c...!.._J
01A250A0  84 81 E4 A9 28 A9 55 0A 52 D5 9E 5C 8A 9B 9B 5C ....(.U.R..\...\
01A250B0  AF C2 84 89 72 8B 62 10 32 03 A3 6F 51 99 3D 85 ....r.b.2..oQ.=.
01A250C0  0A 10 54 03 A3 A3 0A 2A 5F 89 2A 76 16 3E 95 39 ..T....*_..*v.>.9
01A250D0  15 40 8E 58 91 2B 83 23 D7 5A E7 33 C9 61 38 96 .@.X.+.#.Z.3.a8.
01A250E0  44 4B 11 5C 54 40 90 93 6D 37 6A 81 80 E5 17 00 DK.\T@..m7j.....
01A250F0  12 4B 15 42 7F 4A 58 31 88 45 21 CF AD 15 BD 88 .K.B.JX1.E!.....
01A25100  36 AF EE 29 E0 4F 71 71 C6 2E DB 01 5E E3 83 34 6..).Oqq....^..4
01A25110  CC 71 FF 00 83 8E 53 99 8C A4 5F C8 8C 98 44 58 .q....S...._...DX
01A25120  5D 28 CC 80 64 4B A0 72 7A EE 69 E3 B1 26 E1 1E ](.dK.rz.i..&..
01A25130  94 83 A1 00 B9 2B AD 34 49 91 B7 FC BF 90 D2 84 .....+4I.....
01A25140  65 16 44 2C 80 1E BB 50 FA 67 BD E5 CD 1D 46 94 e.D,...P.g....F.
01A25150  44 41 42 10 25 96 EA 76 A1 18 D8 1E 51 17 43 F1 DAB.%.v....Q.C.
01A25160  DE 96 2E E5 C8 47 1A 13 D2 84 78 B1 5E D8 B9 F4 .....G....x.^...
01A25170  50 EB 40 3A 6A 64 10 AE A0 D0 00 7A 2D C2 EA 7F P.@:jd.....z-...
01A25180  9D 21 2B A0 5B AA EF A2 52 5C 32 E9 25 1A AD 21 .!+.[...R\2.%..!
01A25190  90 EE 2C 49 45 4D B6 34 41 93 9B 06 54 1A 0A 13 ..,IEM.4A...T...
01A251A0  8B 10 C7 A6 FF 00 1E B4 40 ED 44 1F A1 09 BD 31 .....@.D....1
01A251B0  2B 63 B1 FE 74 A4 A2 5B 43 62 FB 51 11 B4 B5 17 +c..t..[Cb.Q....
01A251C0  24 1F B2 89 20 BA 22 8D 48 56 BB 68 B5 CE E2 D1 $....".HV.h....
01A251D0  54 08 15 DF 57 A2 50 18 97 44 56 1B 11 64 A2 59 T...W.P..DV..d.Y
01A251E0  11 4C 93 F7 1B 0D E8 C2 41 EF E8 97 4F 85 12 1C .L.....A...O...
01A251F0  18 A9 05 DC 16 7E 94 48 24 44 13 CF EE 72 7A 25 .....~.H$D...rz%
--- sdb --0x1A25000/0x40000000-----

```

```

root@chfiVBox: ~
01A26E00  3F 1A 0D A1 48 AA 0B DC 6D 42 40 28 72 4E FE 83 ?...H...mB@{rN..
01A26E10  53 4A C0 EA 62 55 F4 F5 AE 40 08 92 41 92 0E 49 SJ..bU...@..A..I
01A26E20  B8 A2 9D A6 44 0B B2 2E 9D 34 A9 11 00 0B F2 1A ....D....4.....
01A26E30  DF 4F 4A 25 0F 69 28 0A 0B 5C 35 26 AE A0 6D B0 .OJ%.i(..\5&..m.
01A26E40  1B 1A 08 4A 45 87 50 4B 84 3B 50 1A 05 7B AF C2 ...JE.PK.;P..{..
01A26E50  8A 1E FB 90 A6 DF AD 77 15 B1 BB 85 DA 89 05 41 .....w.....A
01A26E60  74 6B 9D B5 4E B4 0E B2 62 19 14 53 04 93 9B F2 tk..N...b..S....
01A26E70  0B BA 75 A3 24 07 52 AA 22 FB 1A 90 60 9F BA 45 ..u$.R."...`..E
01A26E80  CD 1E 41 08 ED DC 26 CD 7A 70 A1 C1 17 42 75 4A ..A...&.zp...BuJ
01A26E90  04 84 25 EE A5 EE BE 95 23 BA 92 09 67 D2 8A 02 ..%.....#...g...
01A26EA0  24 4A 00 03 3D E8 C8 21 5D 08 62 07 51 4B A9 2E $J..=..!].b.QK..
01A26EB0  45 CA ED 51 89 8A 7E D0 5C 81 2D 7E EB 56 31 22 E..Q...~.\.-~.V1"
01A26EC0  4F 53 AA 0B FF 00 2A 08 51 50 15 21 08 B9 4A 05 OS....*.QP.!..J.
01A26ED0  DA FE 88 BF 6A D0 00 85 D7 61 CB 47 D2 90 81 12 ....j....a.G....
01A26EE0  4F FD 1E D4 00 03 42 BB 4A CA FB 54 8F CB 2D 36 O.....B.J..T...-6
01A26EF0  01 2F F1 D2 B9 71 42 43 96 E4 FA 12 68 39 05 58 ./...qBC....h9.X
01A26F00  5D AA 2E F7 66 2B A8 02 89 42 80 24 8C 7B 5D 59 ]...f+...B.$.[Y
01A26F10  56 8A 85 20 71 2C 85 4D 9C D8 50 37 90 75 36 5B V.. q,.M..P7.u6[
01A26F20  25 45 62 4A 00 18 22 0D 47 C6 9E 4E 45 AE 1D F5 %EbJ.."..G..NE...
01A26F30  DB 6A 70 40 17 00 21 BD 8E F4 7F A8 A9 6F E7 41 .jp@...!.....o.A
01A26F40  DC 94 08 52 4D BD 21 70 5D 06 EB 75 BB 51 24 82 ...RM.!p]..u.Q$.
01A26F50  AE 59 3E C1 FF 00 ED 51 B2 06 12 00 22 E8 86 89 .Y>....Q....."...
01A26F60  20 76 87 5D 0E FD 69 D4 1B 02 0A DB 7E B4 B1 08 v.]..i.....~...
01A26F70  54 72 22 9C A9 44 92 DB F8 6A FF D9 00 00 00 00 Tr"..D...j.....
01A26F80  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26F90  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FA0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FB0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FC0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FD0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FE0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FF0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb --0x1A26E00/0x40000000-----

```

Deleted File

```
root@chfIVBox: ~
00000000 33 C0 8E D0 BC 00 7C 8E C0 8E D8 BE 00 7C BF 00 3.....|.....|..
00000010 06 B9 00 02 FC F3 A4 50 68 1C 06 CB FB B9 04 00 .....Ph.....
00000020 BD BE 07 80 7E 00 00 7C 0B 0F 85 10 01 83 C5 10 ....~...|.....
00000030 E2 F1 CD 18 88 56 00 55 C6 46 11 05 C6 46 10 00 .....V.U.F...F..
00000040 B4 41 BB AA 55 CD 13 5D 72 0F 81 FB 55 AA 75 09 .A..U..]r...U.u.
00000050 F7 C1 01 00 74 03 FE 46 10 66 60 80 7E 10 00 74 ....t..F.f`.~..t
00000060 26 66 68 00 00 00 00 66 FF 76 08 68 00 00 68 00 &fh....f.v.h..h.
00000070 7C 68 01 00 68 10 00 B4 42 8A 56 00 8B F4 CD 13 |h..h...B.V.....
00000080 9F 83 C4 10 9E EB 14 B8 01 02 BB 00 7C 8A 56 00 .....|.V.
00000090 8A 76 01 8A 4E 02 8A 6E 03 CD 13 66 61 73 1E FE .v..N..n...fas..
000000A0 4E 11 0F 85 0C 00 80 7E 00 80 0F 84 8A 00 B2 80 N.....~.....
000000B0 EB 82 55 32 E4 8A 56 00 CD 13 5D EB 9C 81 3E FE ..U2..V...]>...
000000C0 7D 55 AA 75 6E FF 76 00 E8 8A 00 0F 85 15 00 B0 }U.un.v.....
000000D0 D1 E6 64 E8 7F 00 B0 DF E6 60 E8 78 00 B0 FF E6 ..d.....`.x....
000000E0 64 E8 71 00 B8 00 BB CD 1A 66 23 C0 75 3B 66 81 d.q.....f#.u;f.
000000F0 FB 54 43 50 41 75 32 81 F9 02 01 72 2C 66 68 07 .TCPAu2....r,fh.
00000100 BB 00 00 66 68 00 02 00 00 66 68 08 00 00 00 66 ...fh....fh....f
00000110 53 66 53 66 55 66 68 00 00 00 00 66 68 00 7C 00 SfsfUfh....fh.|.
00000120 00 66 61 68 00 00 07 CD 1A 5A 32 F6 EA 00 7C 00 .fah.....Z2...|.
00000130 00 CD 18 A0 B7 07 EB 08 A0 B6 07 EB 03 A0 B5 07 .....
00000140 32 E4 05 00 07 8B F0 AC 3C 00 74 FC BB 07 00 B4 2.....<.t....
00000150 0E CD 10 EB F2 2B C9 E4 64 EB 00 24 02 E0 F8 24 .....+.d..$...$
00000160 02 C3 49 6E 76 61 6C 69 64 20 70 61 72 74 69 74 ..Invalid partit
00000170 69 6F 6E 20 74 61 62 6C 65 00 45 72 72 6F 72 20 ion table.Error
00000180 6C 6F 61 64 69 6E 67 20 6F 70 65 72 61 74 69 6E loading operatin
00000190 67 20 73 79 73 74 65 6D 00 4D 69 73 73 69 6E 67 g system.Missing
000001A0 20 6F 70 65 72 61 74 69 6E 67 20 73 79 73 74 65 operating syste
000001B0 6D 00 00 00 00 62 7A 99 DA D3 C7 5F 00 00 00 02 m....bz...._....
000001C0 03 00 06 28 A8 06 80 00 00 00 00 E8 1F 00 00 00 ...(.
000001D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000001E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000001F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 55 AA .....U.
--- sdb --0x0/0x40000000-----
```

$$0x80 * 0x200 = 0x10000$$


```

root@chflVBox: ~
00010000 EB 3C 90 4D 53 44 4F 53 35 2E 30 00 02 20 08 00 .<.MSDOS5.0.. ..
00010010 02 00 02 00 00 F8 00 01 3F 00 40 00 80 00 00 00 .....?.@.....
00010020 00 E8 1F 00 80 00 29 97 81 89 24 4E 4F 20 4E 41 .....)$NO NA
00010030 4D 45 20 20 20 20 46 41 54 31 36 20 20 20 33 C9 ME FAT16 3.
00010040 8E D1 BC F0 7B 8E D9 B8 00 20 8E C0 FC BD 00 7C ....{....|
00010050 38 4E 24 7D 24 8B C1 99 E8 3C 01 72 1C 83 EB 3A 8N$}$$.<.r...:
00010060 66 A1 1C 7C 26 66 3B 07 26 8A 57 FC 75 06 80 CA f..|&f;.&.W.u...
00010070 02 88 56 02 80 C3 10 73 EB 33 C9 8A 46 10 98 F7 ..V....s.3..F...
00010080 66 16 03 46 1C 13 56 1E 03 46 0E 13 D1 8B 76 11 f..F..V..F....v.
00010090 60 89 46 FC 89 56 FE B8 20 00 F7 E6 8B 5E 0B 03 `..F..V.. ....^..
000100A0 C3 48 F7 F3 01 46 FC 11 4E FE 61 BF 00 00 E8 E6 .H...F..N.a....
000100B0 00 72 39 26 38 2D 74 17 60 B1 0B BE A1 7D F3 A6 .r9&8-t.`....}..
000100C0 61 74 32 4E 74 09 83 C7 20 3B FB 72 E6 EB DC A0 at2Nt... ;.r....
000100D0 FB 7D B4 7D 8B F0 AC 98 40 74 0C 48 74 13 B4 0E .}.}....@t.Ht...
000100E0 BB 07 00 CD 10 EB EF A0 FD 7D EB E6 A0 FC 7D EB .....}....}.
000100F0 E1 CD 16 CD 19 26 8B 55 1A 52 B0 01 BB 00 00 E8 .....&.U.R.....
00010100 3B 00 72 E8 5B 8A 56 24 BE 0B 7C 8B FC C7 46 F0 ;.r.[.V$..|...F.
00010110 3D 7D C7 46 F4 29 7D 8C D9 89 4E F2 89 4E F6 C6 =}.F.)}...N..N..
00010120 06 96 7D CB EA 03 00 00 20 0F B6 C8 66 8B 46 F8 ..}.....f.F.
00010130 66 03 46 1C 66 8B D0 66 C1 EA 10 EB 5E 0F B6 C8 f.F.f..f....^...
00010140 4A 4A 8A 46 0D 32 E4 F7 E2 03 46 FC 13 56 FE EB JJ.F.2....F..V..
00010150 4A 52 50 06 53 6A 01 6A 10 91 8B 46 18 96 92 33 JRP.Sj.j...F...3
00010160 D2 F7 F6 91 F7 F6 42 87 CA F7 76 1A 8A F2 8A E8 .....B...v.....
00010170 C0 CC 02 0A CC B8 01 02 80 7E 02 0E 75 04 B4 42 .....~...u..B
00010180 8B F4 8A 56 24 CD 13 61 61 72 0B 40 75 01 42 03 ...V$..aar.@u.B.
00010190 5E 0B 49 75 06 F8 C3 41 BB 00 00 60 66 6A 00 EB ^.Iu...A...`fj..
000101A0 B0 42 4F 4F 54 4D 47 52 20 20 20 20 0D 0A 52 65 .BOOTMGR ..Re
000101B0 6D 6F 76 65 20 64 69 73 6B 73 20 6F 72 20 6F 74 move disks or ot
000101C0 68 65 72 20 6D 65 64 69 61 2E FF 0D 0A 44 69 73 her media....Dis
000101D0 6B 20 65 72 72 6F 72 FF 0D 0A 50 72 65 73 73 20 k error...Press
000101E0 61 6E 79 20 6B 65 79 20 74 6F 20 72 65 73 74 61 any key to resta
000101F0 72 74 0D 0A 00 00 00 00 00 00 00 AC CB D8 55 AA rt.....U.
--- sdb --0x10000/0x40000000-----

```

cluster size = 0x0200 * 0x20 = 0x4000
reserved sectors = 0x0200 * 0x08 = 0x1000

```

root@chfivBox: ~
00051000  45 56 49 44 46 41 54 31 36 20 20 08 00 00 00 00 EVIDFAT16 .....
00051010  00 00 00 00 00 00 AE 5A D2 3E 00 00 00 00 00 00 .....Z.>.....
00051020  E5 41 49 4C 32 4B 37 20 20 20 20 10 08 BA D3 5A .AIL2K7 ....Z
00051030  D2 3E D2 3E 00 00 78 2F B8 42 02 00 00 40 00 00 .>.>...x/.B...@..
00051040  E5 41 49 4C 32 4B 31 30 20 20 20 10 08 03 D4 5A .AIL2K10 ....Z
00051050  D2 3E D2 3E 00 00 78 2F B8 42 C3 00 00 40 00 00 .>.>...x/.B...@..
00051060  E5 41 49 4C 32 4B 31 33 20 20 20 10 08 29 D4 5A .AIL2K13 ..).Z
00051070  D2 3E D2 3E 00 00 78 2F B8 42 6B 02 00 40 00 00 .>.>...x/.Bk...@..
00051080  E5 41 49 4C 39 37 20 20 20 20 20 10 08 32 D4 5A .AIL97 ..2.Z
00051090  D2 3E D2 3E 00 00 78 2F B8 42 CC 02 00 40 00 00 .>.>...x/.B...@..
000510A0  E5 44 46 20 20 20 20 20 20 20 20 10 08 40 D4 5A .DF ..@.Z
000510B0  D2 3E D2 3E 00 00 78 2F B8 42 30 03 00 40 00 00 .>.>...x/.B0...@..
000510C0  E5 4F 43 20 20 20 20 20 20 20 20 10 08 6D D4 5A .OC ..m.Z
000510D0  D2 3E D2 3E 00 00 78 2F B8 42 2B 04 00 40 00 00 .>.>...x/.B+...@..
000510E0  E5 45 50 45 4B 20 20 20 20 20 20 10 08 AC D4 5A .EPEK ....Z
000510F0  D2 3E D2 3E 00 00 96 5B 96 43 65 06 00 40 00 00 .>.>...[.Ce...@..
00051100  E5 4F 4F 54 46 49 4C 45 54 58 54 20 18 C0 D8 5A .OOTFILETXT ...Z
00051110  D2 3E D2 3E 00 00 9D 4E D2 3E 26 07 26 00 00 00 .>.>...N.>&.&...
00051120  24 52 45 43 59 43 4C 45 42 49 4E 16 00 51 C9 5B $RECYCLEBIN..Q.[
00051130  D2 3E D2 3E 00 00 CA 5B D2 3E 27 07 00 00 00 00 .>.>...[.>'.....
00051140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb --0x511F0/0x40000000-----

```

$$0x0726 * 2 = 0xE4C$$

$$(0x0726 - 1) * 0x20 * 0x0200 + 0x051000 = 0x01CE5000$$


```
root@chfivBox: ~  
00011E00    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011E10    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011E20    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011E30    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011E40    00 00 00 00 00 00 00 00 00 00 00 00 FF FF .....  
00011E50    FF FF 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011E60    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011E70    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011E80    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011E90    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011EA0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011EB0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011EC0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011ED0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011EE0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011EF0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011F00    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011F10    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011F20    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011F30    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011F40    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011F50    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011F60    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011F70    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011F80    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011F90    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011FA0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011FB0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011FC0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011FD0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011FE0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
00011FF0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....  
--- sdb          --0x11E4A/0x40000000-----
```

[illegible]

```

root@chfIVBox: ~
01CE5000  54 48 49 53 20 46 49 4C 45 20 49 53 20 49 4E 20 THIS FILE IS IN
01CE5010  54 48 45 20 52 4F 4F 54 20 44 49 52 45 43 54 4F THE ROOT DIRECTO
01CE5020  52 59 0D 0A 0D 0A 00 00 00 00 00 00 00 00 00 00 RY.....
01CE5030  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5040  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5050  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5060  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5070  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5080  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5090  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5110  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
---  sdb          --0x1CE5010/0x40000000-----

```



```

root@chfivBox: ~
00051000  45 56 49 44 46 41 54 31 36 20 20 08 00 00 00 00 EVIDFAT16 .....
00051010  00 00 00 00 00 00 AE 5A D2 3E 00 00 00 00 00 00 .....Z.>.....
00051020  E5 41 49 4C 32 4B 37 20 20 20 20 10 08 BA D3 5A .AIL2K7 .....Z
00051030  D2 3E D2 3E 00 00 78 2F B8 42 02 00 00 40 00 00 .>.>..x/.B...@..
00051040  E5 41 49 4C 32 4B 31 30 20 20 20 10 08 03 D4 5A .AIL2K10 .....Z
00051050  D2 3E D2 3E 00 00 78 2F B8 42 C3 00 00 40 00 00 .>.>..x/.B...@..
00051060  E5 41 49 4C 32 4B 31 33 20 20 20 10 08 29 D4 5A .AIL2K13 ..).Z
00051070  D2 3E D2 3E 00 00 78 2F B8 42 6B 02 00 40 00 00 .>.>..x/.Bk...@..
00051080  E5 41 49 4C 39 37 20 20 20 20 20 10 08 32 D4 5A .AIL97 ..2.Z
00051090  D2 3E D2 3E 00 00 78 2F B8 42 CC 02 00 40 00 00 .>.>..x/.B...@..
000510A0  E5 44 46 20 20 20 20 20 20 20 20 10 08 40 D4 5A .DF ..@.Z
000510B0  D2 3E D2 3E 00 00 78 2F B8 42 30 03 00 40 00 00 .>.>..x/.B0...@..
000510C0  E5 4F 43 20 20 20 20 20 20 20 20 10 08 6D D4 5A .OC ...m.Z
000510D0  D2 3E D2 3E 00 00 78 2F B8 42 2B 04 00 40 00 00 .>.>..x/.B+...@..
000510E0  E5 45 50 45 4B 20 20 20 20 20 20 10 08 AC D4 5A .EPEK .....Z
000510F0  D2 3E D2 3E 00 00 96 5B 96 43 65 06 00 40 00 00 .>.>...[.Ce...@..
00051100  E5 4F 4F 54 46 49 4C 45 54 58 54 20 18 C0 D8 5A .OOTFILETXT ...Z
00051110  D2 3E D2 3E 00 00 9D 4E D2 3E 26 07 26 00 00 00 .>.>...N.>&.&...
00051120  24 52 45 43 59 43 4C 45 42 49 4E 16 00 51 C9 5B $RECYCLEBIN..Q.[
00051130  D2 3E D2 3E 00 00 CA 5B D2 3E 27 07 00 00 00 00 .>.>...[.>'.....
00051140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb --0x511F0/0x40000000-----

```

$$(0x0665 - 1) * 0x20 * 0x200 + 0x51000 = 0x019E1000$$


```

root@chfivBox: ~
019E1000  2E 20 20 20 20 20 20 20 20 20 20 10 00 AC D4 5A .      ....Z
019E1010  D2 3E D2 3E 00 00 D5 5A D2 3E 65 06 00 00 00 00 .>.>...Z.>e.....
019E1020  2E 2E 20 20 20 20 20 20 20 20 20 10 00 AC D4 5A ..      ....Z
019E1030  D2 3E D2 3E 00 00 D5 5A D2 3E 00 00 00 00 00 00 00 00 .>.>...Z.>.....
019E1040  46 4C 4F 57 45 52 20 20 4A 50 47 20 18 B1 D4 5A FLOWER  JPG ...Z
019E1050  D2 3E D2 3E 00 00 CA 5A 96 43 66 06 7C 1F 04 00 .>.>...Z.Cf.|...
019E1060  4B 45 50 31 20 20 20 20 4A 50 47 20 18 B3 D4 5A KEP1    JPG ...Z
019E1070  D2 3E D2 3E 00 00 ED 5E 7A 3D 77 06 31 86 2A 00 .>.>...^z=w.1.*.
019E1080  4B 45 50 32 20 20 20 20 4A 50 47 20 18 04 D5 5A KEP2    JPG ...Z
019E1090  D2 3E D2 3E 00 00 2E 6D 32 40 22 07 C2 8D 00 00 .>.>...m2@".....
019E10A0  41 54 00 68 00 75 00 6D 00 62 00 0F 00 A4 73 00 AT.h.u.m.b....s.
019E10B0  2E 00 64 00 62 00 00 00 FF FF 00 00 FF FF FF FF ..d.b.....
019E10C0  54 48 55 4D 42 53 20 20 44 42 20 26 00 05 D5 5A THUMBS  DB &...Z
019E10D0  D2 3E D2 3E 00 00 B3 26 7E 41 25 07 00 26 00 00 .>.>...&~A%..&..
019E10E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E10F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1110  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
---  sdb      --0x19E1000/0x40000000-----

```

$$0x11000 + 0x0666 * 2 = 0x11CCC$$

$$0x31000 + 0x0666 * 2 = 0x31CCC$$

$$(0x0666 - 1) * 0x20 * 0x0200 + 0x51000 = 0x019E5000$$

$$\text{int}(0x00041F7C / (0x20 * 0x0200)) = 0x10$$

$$0x00041F7C \bmod (0x20 * 0x0200) = 0x1F7C$$

[illegible]

[illegible]


```

root@chfivBox: ~
019E5000  FF D8 FF E0 00 10 4A 46 49 46 00 01 02 01 01 2C .....JFIF.....,
019E5010  01 2C 00 00 FF E1 15 3D 45 78 69 66 00 00 49 49 .,.....=Exif..II
019E5020  2A 00 08 00 00 00 0B 00 0E 01 02 00 0B 00 00 00 *.
019E5030  92 00 00 00 0F 01 02 00 06 00 00 00 9D 00 00 00 .....
019E5040  10 01 02 00 06 00 00 00 A3 00 00 00 12 01 03 00 .....
019E5050  01 00 00 00 01 00 00 00 1A 01 05 00 01 00 00 00 .....
019E5060  A9 00 00 00 1B 01 05 00 01 00 00 00 B1 00 00 00 .....
019E5070  28 01 03 00 01 00 00 00 02 00 00 00 31 01 02 00 (.....1...
019E5080  14 00 00 00 B9 00 00 00 32 01 02 00 14 00 00 00 .....2.....
019E5090  CD 00 00 00 13 02 03 00 01 00 00 00 02 00 00 00 .....
019E50A0  69 87 04 00 01 00 00 00 E4 00 00 00 54 03 00 00 i.....T...
019E50B0  20 20 20 20 20 20 20 20 20 20 00 4E 49 4B 4F 4E .NIKON
019E50C0  00 45 34 33 30 30 00 2C 01 00 00 01 00 00 00 2C .E4300.,.....,
019E50D0  01 00 00 01 00 00 00 41 64 6F 62 65 20 50 68 6F .....Adobe Pho
019E50E0  74 6F 73 68 6F 70 20 37 2E 30 00 32 30 30 36 3A toshop 7.0.2006:
019E50F0  30 36 3A 31 36 20 31 39 3A 35 33 3A 31 37 00 00 06:16 19:53:17..
019E5100  00 00 21 00 9A 82 05 00 01 00 00 00 76 02 00 00 ..!.....v...
019E5110  9D 82 05 00 01 00 00 00 7E 02 00 00 22 88 03 00 .....~..."...
019E5120  01 00 00 00 02 00 00 00 27 88 03 00 01 00 00 00 .....'.....
019E5130  64 00 00 00 00 90 07 00 04 00 00 00 30 32 32 30 d.....0220
019E5140  03 90 02 00 14 00 00 00 86 02 00 00 04 90 02 00 .....
019E5150  14 00 00 00 9A 02 00 00 01 91 07 00 04 00 00 00 .....
019E5160  01 02 03 00 02 91 05 00 01 00 00 00 AE 02 00 00 .....
019E5170  04 92 0A 00 01 00 00 00 B6 02 00 00 05 92 05 00 .....
019E5180  01 00 00 00 BE 02 00 00 07 92 03 00 01 00 00 00 .....
019E5190  05 00 00 00 08 92 03 00 01 00 00 00 00 00 00 00 .....
019E51A0  09 92 03 00 01 00 00 00 10 00 00 00 0A 92 05 00 .....
019E51B0  01 00 00 00 C6 02 00 00 86 92 07 00 7D 00 00 00 .....}...
019E51C0  CE 02 00 00 00 A0 07 00 04 00 00 00 30 31 30 30 .....0100
019E51D0  01 A0 03 00 01 00 00 00 01 00 00 00 02 A0 04 00 .....
019E51E0  01 00 00 00 00 04 00 00 03 A0 04 00 01 00 00 00 .....
019E51F0  00 03 00 00 00 A3 07 00 01 00 00 00 03 00 00 00 .....
--- sdb          --0x19E5000/0x40000000-----

```



```

root@chfIVBox: ~
01A29000  FF D8 FF E1 16 4D 45 78 69 66 00 00 49 49 2A 00 .....MExif..II*.
01A29010  08 00 00 00 0F 00 0F 01 02 00 06 00 00 00 C2 00 .....
01A29020  00 00 10 01 02 00 16 00 00 00 C8 00 00 00 1A 01 .....
01A29030  05 00 01 00 00 00 DE 00 00 00 1B 01 05 00 01 00 .....
01A29040  00 00 E6 00 00 00 28 01 03 00 01 00 00 00 02 00 .....(.....
01A29050  7C 7C 32 01 02 00 14 00 00 00 EE 00 00 00 13 02 ||2.....
01A29060  03 00 01 00 00 00 01 00 7D 7D 01 10 03 00 01 00 .....}}.....
01A29070  00 00 00 0C 7C 7C 02 10 03 00 01 00 00 00 00 09 ....||.....
01A29080  7E 7E 69 87 04 00 01 00 00 00 0A 01 00 00 01 A4 ~~i.....
01A29090  03 00 01 00 00 00 00 00 7F 7F 02 A4 03 00 01 00 .....
01A290A0  00 00 00 00 80 80 03 A4 03 00 01 00 00 00 00 00 .....
01A290B0  80 80 04 A4 05 00 01 00 00 00 02 01 00 00 06 A4 .....
01A290C0  03 00 01 00 00 00 00 00 80 80 9C 08 00 00 43 61 .....Ca
01A290D0  6E 6F 6E 00 43 61 6E 6F 6E 20 50 6F 77 65 72 53 non.Canon PowerS
01A290E0  68 6F 74 20 53 44 35 30 30 00 B4 00 00 00 01 00 hot SD500.....
01A290F0  00 00 B4 00 00 00 01 00 00 00 32 30 30 36 3A 30 .....2006:0
01A29100  35 3A 31 33 20 31 36 3A 34 39 3A 35 34 00 00 0C 5:13 16:49:54...
01A29110  00 00 00 0C 00 00 19 00 9A 82 05 00 01 00 00 00 .....
01A29120  3C 02 00 00 9D 82 05 00 01 00 00 00 44 02 00 00 <.....D...
01A29130  00 90 07 00 04 00 00 00 30 32 32 30 03 90 02 00 .....0220....
01A29140  14 00 00 00 4C 02 00 00 04 90 02 00 14 00 00 00 ....L.....
01A29150  60 02 00 00 01 91 07 00 04 00 00 00 01 02 03 00 `.....
01A29160  02 91 05 00 01 00 00 00 74 02 00 00 01 92 0A 00 .....t.....
01A29170  01 00 00 00 7C 02 00 00 02 92 05 00 01 00 00 00 ....|.....
01A29180  84 02 00 00 04 92 0A 00 01 00 00 00 8C 02 00 00 .....
01A29190  05 92 05 00 01 00 00 00 94 02 00 00 07 92 03 00 .....
01A291A0  01 00 00 00 05 00 8D CE 09 92 03 00 01 00 00 00 .....
01A291B0  19 00 DF BD 0A 92 05 00 01 00 00 00 9C 02 00 00 .....
01A291C0  7C 92 07 00 E0 04 00 00 A4 02 00 00 86 92 07 00 |.....
01A291D0  08 01 00 00 84 07 00 00 00 A0 07 00 04 00 00 00 .....
01A291E0  30 31 30 30 01 A0 03 00 01 00 00 00 01 00 B4 7B 0100.....{
01A291F0  02 A0 03 00 01 00 00 00 00 09 BC 02 03 A0 03 00 .....
--- sdb          --0x1A291F0/0x40000000-----

```

```

root@chfIVBox: ~
01A26E00  3F 1A 0D A1 48 AA 0B DC 6D 42 40 28 72 4E FE 83 ?...H...mB@ (rN..
01A26E10  53 4A C0 EA 62 55 F4 F5 AE 40 08 92 41 92 0E 49 SJ..bU...@..A..I
01A26E20  B8 A2 9D A6 44 0B B2 2E 9D 34 A9 11 00 0B F2 1A ....D....4.....
01A26E30  DF 4F 4A 25 0F 69 28 0A 0B 5C 35 26 AE A0 6D B0 .OJ%.i(..\5&..m.
01A26E40  1B 1A 08 4A 45 87 50 4B 84 3B 50 1A 05 7B AF C2 ...JE.PK.;P..{..
01A26E50  8A 1E FB 90 A6 DF AD 77 15 B1 BB 85 DA 89 05 41 .....w.....A
01A26E60  74 6B 9D B5 4E B4 0E B2 62 19 14 53 04 93 9B F2 tk..N...b..S....
01A26E70  0B BA 75 A3 24 07 52 AA 22 FB 1A 90 60 9F BA 45 ..u.$..R."...`..E
01A26E80  CD 1E 41 08 ED DC 26 CD 7A 70 A1 C1 17 42 75 4A ..A...&.zp...BuJ
01A26E90  04 84 25 EE A5 EE BE 95 23 BA 92 09 67 D2 8A 02 ..%. ....#...g...
01A26EA0  24 4A 00 03 3D E8 C8 21 5D 08 62 07 51 4B A9 2E $J..=..!].b.QK..
01A26EB0  45 CA ED 51 89 8A 7E D0 5C 81 2D 7E EB 56 31 22 E..Q...~.\..~.V1"
01A26EC0  4F 53 AA 0B FF 00 2A 08 51 50 15 21 08 B9 4A 05 OS....*.QP.!..J.
01A26ED0  DA FE 88 BF 6A D0 00 85 D7 61 CB 47 D2 90 81 12 ....j....a.G....
01A26EE0  4F FD 1E D4 00 03 42 BB 4A CA FB 54 8F CB 2D 36 0.....B..J..T...-6
01A26EF0  01 2F F1 D2 B9 71 42 43 96 E4 FA 12 68 39 05 58 ./...qBC....h9.X
01A26F00  5D AA 2E F7 66 2B A8 02 89 42 80 24 8C 7B 5D 59 ]...f+...B.$.{]Y
01A26F10  56 8A 85 20 71 2C 85 4D 9C D8 50 37 90 75 36 5B V.. q,.M..P7.u6[
01A26F20  25 45 62 4A 00 18 22 0D 47 C6 9E 4E 45 AE 1D F5 %EbJ.."..G...NE...
01A26F30  DB 6A 70 40 17 00 21 BD 8E F4 7F A8 A9 6F E7 41 .jp@...!.....o.A
01A26F40  DC 94 08 52 4D BD 21 70 5D 06 EB 75 BB 51 24 82 ...RM.!p]..u.Q$.
01A26F50  AE 59 3E C1 FF 00 ED 51 B2 06 12 00 22 E8 86 89 .Y>....Q...."....
01A26F60  20 76 87 5D 0E FD 69 D4 1B 02 0A DB 7E B4 B1 08 v.]..i.....~...
01A26F70  54 72 22 9C A9 44 92 DB F8 6A FF D9 00 00 00 00 Tr"..D...j.....
01A26F80  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26F90  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FA0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FB0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FC0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FD0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FE0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FF0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb          --0x1A26FF0/0x40000000-----

```

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```
root@chfiVBox: ~
00000000  33 C0 8E D0 BC 00 7C 8E C0 8E D8 BE 00 7C BF 00 3.....|.....|..
00000010  06 B9 00 02 FC F3 A4 50 68 1C 06 CB FB B9 04 00 .....Ph.....
00000020  BD BE 07 80 7E 00 00 7C 0B 0F 85 10 01 83 C5 10 ....~..|.....
00000030  E2 F1 CD 18 88 56 00 55 C6 46 11 05 C6 46 10 00 ....V.U.F...F..
00000040  B4 41 BB AA 55 CD 13 5D 72 0F 81 FB 55 AA 75 09 .A..U..]r...U.u.
00000050  F7 C1 01 00 74 03 FE 46 10 66 60 80 7E 10 00 74 ....t..F.f`.~..t
00000060  26 66 68 00 00 00 00 66 FF 76 08 68 00 00 68 00 &fh....f.v.h..h.
00000070  7C 68 01 00 68 10 00 B4 42 8A 56 00 8B F4 CD 13 |h..h...B.V.....
00000080  9F 83 C4 10 9E EB 14 B8 01 02 BB 00 7C 8A 56 00 .....|.V.
00000090  8A 76 01 8A 4E 02 8A 6E 03 CD 13 66 61 73 1E FE .v..N..n...fas..
000000A0  4E 11 0F 85 0C 00 80 7E 00 80 0F 84 8A 00 B2 80 N.....~.....
000000B0  EB 82 55 32 E4 8A 56 00 CD 13 5D EB 9C 81 3E FE ..U2..V...]>..
000000C0  7D 55 AA 75 6E FF 76 00 E8 8A 00 0F 85 15 00 B0 }U.un.v.....
000000D0  D1 E6 64 E8 7F 00 B0 DF E6 60 E8 78 00 B0 FF E6 ..d.....`.x....
000000E0  64 E8 71 00 B8 00 BB CD 1A 66 23 C0 75 3B 66 81 d.q.....f#.u;f.
000000F0  FB 54 43 50 41 75 32 81 F9 02 01 72 2C 66 68 07 .TCPAu2....r,fh.
00000100  BB 00 00 66 68 00 02 00 00 66 68 08 00 00 00 66 ...fh....fh...f
00000110  53 66 53 66 55 66 68 00 00 00 00 66 68 00 7C 00 SfSfUfh....fh.|.
00000120  00 66 61 68 00 00 07 CD 1A 5A 32 F6 EA 00 7C 00 .fah.....Z2...|.
00000130  00 CD 18 A0 B7 07 EB 08 A0 B6 07 EB 03 A0 B5 07 .....
00000140  32 E4 05 00 07 8B F0 AC 3C 00 74 FC BB 07 00 B4 2.....<.t....
00000150  0E CD 10 EB F2 2B C9 E4 64 EB 00 24 02 E0 F8 24 .....+.d..$...$
00000160  02 C3 49 6E 76 61 6C 69 64 20 70 61 72 74 69 74 ..Invalid partit
00000170  69 6F 6E 20 74 61 62 6C 65 00 45 72 72 6F 72 20 ion table.Error
00000180  6C 6F 61 64 69 6E 67 20 6F 70 65 72 61 74 69 6E loading operatin
00000190  67 20 73 79 73 74 65 6D 00 4D 69 73 73 69 6E 67 g system.Missing
000001A0  20 6F 70 65 72 61 74 69 6E 67 20 73 79 73 74 65 operating syste
000001B0  6D 00 00 00 00 62 7A 99 DA D3 C7 5F 00 00 00 02 m....bz...._....
000001C0  03 00 06 28 A8 06 80 00 00 00 00 E8 1F 00 00 00 ...(.
000001D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000001E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000001F0  00 00 00 00 00 00 00 00 00 00 00 00 55 AA .....U.
--- sdb --0x0/0x40000000-----
```



```

root@chflVBox: ~
00010000 EB 3C 90 4D 53 44 4F 53 35 2E 30 00 02 20 08 00 .<.MSDOS5.0.. ..
00010010 02 00 02 00 00 F8 00 01 3F 00 40 00 80 00 00 00 .....?.@.....
00010020 00 E8 1F 00 80 00 29 97 81 89 24 4E 4F 20 4E 41 .....)$NO NA
00010030 4D 45 20 20 20 20 46 41 54 31 36 20 20 20 33 C9 ME FAT16 3.
00010040 8E D1 BC F0 7B 8E D9 B8 00 20 8E C0 FC BD 00 7C ....{....|
00010050 38 4E 24 7D 24 8B C1 99 E8 3C 01 72 1C 83 EB 3A 8N$}$....<.r...:
00010060 66 A1 1C 7C 26 66 3B 07 26 8A 57 FC 75 06 80 CA f..|&f;.&.W.u...
00010070 02 88 56 02 80 C3 10 73 EB 33 C9 8A 46 10 98 F7 ..V....s.3..F...
00010080 66 16 03 46 1C 13 56 1E 03 46 0E 13 D1 8B 76 11 f..F..V..F....v.
00010090 60 89 46 FC 89 56 FE B8 20 00 F7 E6 8B 5E 0B 03 `.F..V.. ....^..
000100A0 C3 48 F7 F3 01 46 FC 11 4E FE 61 BF 00 00 E8 E6 .H...F..N.a.....
000100B0 00 72 39 26 38 2D 74 17 60 B1 0B BE A1 7D F3 A6 .r9&8-t.`....}.
000100C0 61 74 32 4E 74 09 83 C7 20 3B FB 72 E6 EB DC A0 at2Nt... ;.r....
000100D0 FB 7D B4 7D 8B F0 AC 98 40 74 0C 48 74 13 B4 0E .}.}....@t.Ht...
000100E0 BB 07 00 CD 10 EB EF A0 FD 7D EB E6 A0 FC 7D EB .....}....}.
000100F0 E1 CD 16 CD 19 26 8B 55 1A 52 B0 01 BB 00 00 E8 .....&.U.R.....
00010100 3B 00 72 E8 5B 8A 56 24 BE 0B 7C 8B FC C7 46 F0 ;.r.[.V$..|...F.
00010110 3D 7D C7 46 F4 29 7D 8C D9 89 4E F2 89 4E F6 C6 =}.F.))...N..N..
00010120 06 96 7D CB EA 03 00 00 20 0F B6 C8 66 8B 46 F8 ..}.....f.F.
00010130 66 03 46 1C 66 8B D0 66 C1 EA 10 EB 5E 0F B6 C8 f.F.f..f....^...
00010140 4A 4A 8A 46 0D 32 E4 F7 E2 03 46 FC 13 56 FE EB JJ.F.2....F..V..
00010150 4A 52 50 06 53 6A 01 6A 10 91 8B 46 18 96 92 33 JRP.Sj.j...F...3
00010160 D2 F7 F6 91 F7 F6 42 87 CA F7 76 1A 8A F2 8A E8 .....B...v.....
00010170 C0 CC 02 0A CC B8 01 02 80 7E 02 0E 75 04 B4 42 .....~...u..B
00010180 8B F4 8A 56 24 CD 13 61 61 72 0B 40 75 01 42 03 ...V$..aar.@u.B.
00010190 5E 0B 49 75 06 F8 C3 41 BB 00 00 60 66 6A 00 EB ^.Iu...A...`fj..
000101A0 B0 42 4F 4F 54 4D 47 52 20 20 20 20 0D 0A 52 65 .BOOTMGR ..Re
000101B0 6D 6F 76 65 20 64 69 73 6B 73 20 6F 72 20 6F 74 move disks or ot
000101C0 68 65 72 20 6D 65 64 69 61 2E FF 0D 0A 44 69 73 her media....Dis
000101D0 6B 20 65 72 72 6F 72 FF 0D 0A 50 72 65 73 73 20 k error...Press
000101E0 61 6E 79 20 6B 65 79 20 74 6F 20 72 65 73 74 61 any key to resta
000101F0 72 74 0D 0A 00 00 00 00 00 00 00 AC CB D8 55 AA rt.....U.
--- sdb --0x10000/0x40000000-----

```


[illegible]



```
--- sdb
```

- -0x19E5000/0x40000000.

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```

root@chfiVBox: ~
00000000  33 C0 8E D0 BC 00 7C 8E C0 8E D8 BE 00 7C BF 00 3.....|.....|..
00000010  06 B9 00 02 FC F3 A4 50 68 1C 06 CB FB B9 04 00 .....Ph.....
00000020  BD BE 07 80 7E 00 00 7C 0B 0F 85 10 01 83 C5 10 ....~..|.....
00000030  E2 F1 CD 18 88 56 00 55 C6 46 11 05 C6 46 10 00 ....V.U.F...F..
00000040  B4 41 BB AA 55 CD 13 5D 72 0F 81 FB 55 AA 75 09 .A..U..]r...U.u.
00000050  F7 C1 01 00 74 03 FE 46 10 66 60 80 7E 10 00 74 ....t..F.f`.~.t
00000060  26 66 68 00 00 00 00 66 FF 76 08 68 00 00 68 00 &fh....f.v.h..h.
00000070  7C 68 01 00 68 10 00 B4 42 8A 56 00 8B F4 CD 13 |h..h...B.V.....
00000080  9F 83 C4 10 9E EB 14 B8 01 02 BB 00 7C 8A 56 00 .....|.V.
00000090  8A 76 01 8A 4E 02 8A 6E 03 CD 13 66 61 73 1E FE .v..N..n...fas..
000000A0  4E 11 0F 85 0C 00 80 7E 00 80 0F 84 8A 00 B2 80 N.....~.....
000000B0  EB 82 55 32 E4 8A 56 00 CD 13 5D EB 9C 81 3E FE ..U2..V...]>..
000000C0  7D 55 AA 75 6E FF 76 00 E8 8A 00 0F 85 15 00 B0 }U.un.v.....
000000D0  D1 E6 64 E8 7F 00 B0 DF E6 60 E8 78 00 B0 FF E6 ..d.....`.x....
000000E0  64 E8 71 00 B8 00 BB CD 1A 66 23 C0 75 3B 66 81 d.q.....f#.u;f.
000000F0  FB 54 43 50 41 75 32 81 F9 02 01 72 2C 66 68 07 .TCPAu2....r,fh.
00000100  BB 00 00 66 68 00 02 00 00 66 68 08 00 00 00 66 ...fh....fh...f
00000110  53 66 53 66 55 66 68 00 00 00 00 66 68 00 7C 00 SfsfUfh....fh.|.
00000120  00 66 61 68 00 00 07 CD 1A 5A 32 F6 EA 00 7C 00 .fah.....Z2...|.
00000130  00 CD 18 A0 B7 07 EB 08 A0 B6 07 EB 03 A0 B5 07 .....
00000140  32 E4 05 00 07 8B F0 AC 3C 00 74 FC BB 07 00 B4 2.....<.t....
00000150  0E CD 10 EB F2 2B C9 E4 64 EB 00 24 02 E0 F8 24 .....+.d..$...$
00000160  02 C3 49 6E 76 61 6C 69 64 20 70 61 72 74 69 74 ..Invalid partit
00000170  69 6F 6E 20 74 61 62 6C 65 00 45 72 72 6F 72 20 ion table.Error
00000180  6C 6F 61 64 69 6E 67 20 6F 70 65 72 61 74 69 6E loading operatin
00000190  67 20 73 79 73 74 65 6D 00 4D 69 73 73 69 6E 67 g system.Missing
000001A0  20 6F 70 65 72 61 74 69 6E 67 20 73 79 73 74 65 operating syste
000001B0  6D 00 00 00 00 62 7A 99 DA D3 C7 5F 00 00 00 02 m....bz...._....
000001C0  03 00 06 28 A8 06 80 00 00 00 00 E8 1F 00 00 00 ...(.
000001D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000001E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000001F0  00 00 00 00 00 00 00 00 00 00 00 00 55 AA .....U.
--- sdb -----0x0/0x40000000-----

```

$$0x80 * 0x200 = 0x10000$$


```

root@chflVBox: ~
00010000 EB 3C 90 4D 53 44 4F 53 35 2E 30 00 02 20 08 00 .<.MSDOS5.0.. ..
00010010 02 00 02 00 00 F8 00 01 3F 00 40 00 80 00 00 00 .....?.@.....
00010020 00 E8 1F 00 80 00 29 97 81 89 24 4E 4F 20 4E 41 .....)$NO NA
00010030 4D 45 20 20 20 20 46 41 54 31 36 20 20 20 33 C9 ME FAT16 3.
00010040 8E D1 BC F0 7B 8E D9 B8 00 20 8E C0 FC BD 00 7C ....{....|
00010050 38 4E 24 7D 24 8B C1 99 E8 3C 01 72 1C 83 EB 3A 8N$}$$.<.r...:
00010060 66 A1 1C 7C 26 66 3B 07 26 8A 57 FC 75 06 80 CA f..|&f;.&.W.u...
00010070 02 88 56 02 80 C3 10 73 EB 33 C9 8A 46 10 98 F7 ..V....s.3..F...
00010080 66 16 03 46 1C 13 56 1E 03 46 0E 13 D1 8B 76 11 f..F..V..F....v.
00010090 60 89 46 FC 89 56 FE B8 20 00 F7 E6 8B 5E 0B 03 `.F..V.. ....^..
000100A0 C3 48 F7 F3 01 46 FC 11 4E FE 61 BF 00 00 E8 E6 .H...F..N.a....
000100B0 00 72 39 26 38 2D 74 17 60 B1 0B BE A1 7D F3 A6 .r9&8-t.`....}..
000100C0 61 74 32 4E 74 09 83 C7 20 3B FB 72 E6 EB DC A0 at2Nt... ;.r....
000100D0 FB 7D B4 7D 8B F0 AC 98 40 74 0C 48 74 13 B4 0E .}.}....@t.Ht...
000100E0 BB 07 00 CD 10 EB EF A0 FD 7D EB E6 A0 FC 7D EB .....}....}.
000100F0 E1 CD 16 CD 19 26 8B 55 1A 52 B0 01 BB 00 00 E8 .....&.U.R.....
00010100 3B 00 72 E8 5B 8A 56 24 BE 0B 7C 8B FC C7 46 F0 ;.r.[.V$..|...F.
00010110 3D 7D C7 46 F4 29 7D 8C D9 89 4E F2 89 4E F6 C6 =}.F.))...N..N..
00010120 06 96 7D CB EA 03 00 00 20 0F B6 C8 66 8B 46 F8 ..}.....f.F.
00010130 66 03 46 1C 66 8B D0 66 C1 EA 10 EB 5E 0F B6 C8 f.F.f..f....^...
00010140 4A 4A 8A 46 0D 32 E4 F7 E2 03 46 FC 13 56 FE EB JJ.F.2....F..V..
00010150 4A 52 50 06 53 6A 01 6A 10 91 8B 46 18 96 92 33 JRP.Sj.j...F...3
00010160 D2 F7 F6 91 F7 F6 42 87 CA F7 76 1A 8A F2 8A E8 .....B...v.....
00010170 C0 CC 02 0A CC B8 01 02 80 7E 02 0E 75 04 B4 42 .....~...u..B
00010180 8B F4 8A 56 24 CD 13 61 61 72 0B 40 75 01 42 03 ...V$..aar.@u.B.
00010190 5E 0B 49 75 06 F8 C3 41 BB 00 00 60 66 6A 00 EB ^.Iu...A...`fj..
000101A0 B0 42 4F 4F 54 4D 47 52 20 20 20 20 0D 0A 52 65 .BOOTMGR ..Re
000101B0 6D 6F 76 65 20 64 69 73 6B 73 20 6F 72 20 6F 74 move disks or ot
000101C0 68 65 72 20 6D 65 64 69 61 2E FF 0D 0A 44 69 73 her media....Dis
000101D0 6B 20 65 72 72 6F 72 FF 0D 0A 50 72 65 73 73 20 k error...Press
000101E0 61 6E 79 20 6B 65 79 20 74 6F 20 72 65 73 74 61 any key to resta
000101F0 72 74 0D 0A 00 00 00 00 00 00 00 AC CB D8 55 AA rt.....U.
--- sdb --0x10000/0x40000000-----

```

cluster size = 0x0200 * 0x20 = 0x4000
reserved sectors = 0x0200 * 0x08 = 0x1000

```
root@chfiVBox: ~
00011000  F8 FF FF FF FF FF FF 00 00 00 00 00 00 00 00 .....
00011010  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011020  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011030  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011040  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011050  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011060  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011070  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011080  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011090  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000110A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000110B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000110C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000110D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000110E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000110F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011110  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00011190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000111A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000111B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000111C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000111D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000111E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000111F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb          --0x11000/0x40000000-----
```

```
root@chfiVBox: ~
00031000  F8 FF FF FF FF FF FF 00 00 00 00 00 00 00 00 .....
00031010  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031020  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031030  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031040  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031050  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031060  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031070  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031080  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031090  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000310A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000310B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000310C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000310D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000310E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000310F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031110  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00031190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000311A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000311B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000311C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000311D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000311E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000311F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb          --0x311F0/0x40000000-----
```

```
root@chfiVBox: ~
00051000  45 56 49 44 46 41 54 31 36 20 20 08 00 00 00 00 EVIDFAT16 .....
00051010  00 00 00 00 00 00 6A 70 D4 3E 00 00 00 00 00 00 .....jp.>.....
00051020  24 52 45 43 59 43 4C 45 42 49 4E 16 00 61 1B 07 $RECYCLEBIN..a..
00051030  D5 3E D5 3E 00 00 1C 07 D5 3E 02 00 00 00 00 00 .>.>.....>.....
00051040  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051050  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051060  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051070  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051080  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051090  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000510A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000510B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000510C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000510D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000510E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000510F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051110  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00051190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
000511F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb          --0x511F0/0x40000000-----
```



```
root@chfiVBox: ~
01CE5000  54 48 49 53 20 46 49 4C 45 20 49 53 20 49 4E 20 THIS FILE IS IN
01CE5010  54 48 45 20 52 4F 4F 54 20 44 49 52 45 43 54 4F THE ROOT DIRECTO
01CE5020  52 59 0D 0A 0D 0A 00 00 00 00 00 00 00 00 00 00 RY.....
01CE5030  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5040  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5050  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5060  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5070  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5080  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5090  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE50F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5110  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE5190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01CE51F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb          --0x1CE51F0/0x40000000-----
```

```

root@chfiVBox: ~
019E1000  2E 20 20 20 20 20 20 20 20 20 20 10 00 AC D4 5A .      ....Z
019E1010  D2 3E D2 3E 00 00 D5 5A D2 3E 65 06 00 00 00 00 .>.>...Z.>e.....
019E1020  2E 2E 20 20 20 20 20 20 20 20 20 10 00 AC D4 5A ..      ....Z
019E1030  D2 3E D2 3E 00 00 D5 5A D2 3E 00 00 00 00 00 00 00 00 .>.>...Z.>.....
019E1040  46 4C 4F 57 45 52 20 20 4A 50 47 20 18 B1 D4 5A FLOWER  JPG ...Z
019E1050  D2 3E D2 3E 00 00 CA 5A 96 43 66 06 7C 1F 04 00 .>.>...Z.Cf.|...
019E1060  4B 45 50 31 20 20 20 20 4A 50 47 20 18 B3 D4 5A KEP1    JPG ...Z
019E1070  D2 3E D2 3E 00 00 ED 5E 7A 3D 77 06 31 86 2A 00 .>.>...^z=w.1.*.
019E1080  4B 45 50 32 20 20 20 20 4A 50 47 20 18 04 D5 5A KEP2    JPG ...Z
019E1090  D2 3E D2 3E 00 00 2E 6D 32 40 22 07 C2 8D 00 00 .>.>...m2@".....
019E10A0  41 54 00 68 00 75 00 6D 00 62 00 0F 00 A4 73 00 AT.h.u.m.b....s.
019E10B0  2E 00 64 00 62 00 00 00 FF FF 00 00 FF FF FF FF ..d.b.....
019E10C0  54 48 55 4D 42 53 20 20 44 42 20 26 00 05 D5 5A THUMBS  DB &...Z
019E10D0  D2 3E D2 3E 00 00 B3 26 7E 41 25 07 00 26 00 00 .>.>...&~A%..&..
019E10E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E10F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1110  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1120  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1130  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1140  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1150  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1160  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1170  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1180  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E1190  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11A0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11B0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11C0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11D0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11E0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
019E11F0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
---  sdb      --0x19E1000/0x40000000-----

```

$$0x11000 + 0x0666 * 2 = 0x011CCC$$

$$0x31000 + 0x0666 * 2 = 0x031CCC$$

$$(0x0666 - 1) * 0x20 * 0x0200 + 0x51000 = 0x019E5000$$

$$\text{int}(0x00041F7C / (0x20 * 0x0200)) = 0x10$$

$$0x00041F7C \bmod (0x20 * 0x0200) = 0x1F7C$$

[illegible]

```

root@chfIVBox: ~
019E5000  FF D8 FF E0 00 10 4A 46 49 46 00 01 02 01 01 2C .....JFIF.....,
019E5010  01 2C 00 00 FF E1 15 3D 45 78 69 66 00 00 49 49 .,.....=Exif..II
019E5020  2A 00 08 00 00 00 0B 00 0E 01 02 00 0B 00 00 00 *.....
019E5030  92 00 00 00 0F 01 02 00 06 00 00 00 9D 00 00 00 .....
019E5040  10 01 02 00 06 00 00 00 A3 00 00 00 12 01 03 00 .....
019E5050  01 00 00 00 01 00 00 00 1A 01 05 00 01 00 00 00 .....
019E5060  A9 00 00 00 1B 01 05 00 01 00 00 00 B1 00 00 00 .....
019E5070  28 01 03 00 01 00 00 00 02 00 00 00 31 01 02 00 (.....1...
019E5080  14 00 00 00 B9 00 00 00 32 01 02 00 14 00 00 00 .....2.....
019E5090  CD 00 00 00 13 02 03 00 01 00 00 00 02 00 00 00 .....
019E50A0  69 87 04 00 01 00 00 00 E4 00 00 00 54 03 00 00 i.....T...
019E50B0  20 20 20 20 20 20 20 20 20 20 00 4E 49 4B 4F 4E .NIKON
019E50C0  00 45 34 33 30 30 00 2C 01 00 00 01 00 00 00 2C .E4300.,.....,
019E50D0  01 00 00 01 00 00 00 41 64 6F 62 65 20 50 68 6F .....Adobe Pho
019E50E0  74 6F 73 68 6F 70 20 37 2E 30 00 32 30 30 36 3A toshop 7.0.2006:
019E50F0  30 36 3A 31 36 20 31 39 3A 35 33 3A 31 37 00 00 06:16 19:53:17..
019E5100  00 00 21 00 9A 82 05 00 01 00 00 00 76 02 00 00 ..!.....v...
019E5110  9D 82 05 00 01 00 00 00 7E 02 00 00 22 88 03 00 .....~..."...
019E5120  01 00 00 00 02 00 00 00 27 88 03 00 01 00 00 00 .....'.
019E5130  64 00 00 00 00 90 07 00 04 00 00 00 30 32 32 30 d.....0220
019E5140  03 90 02 00 14 00 00 00 86 02 00 00 04 90 02 00 .....
019E5150  14 00 00 00 9A 02 00 00 01 91 07 00 04 00 00 00 .....
019E5160  01 02 03 00 02 91 05 00 01 00 00 00 AE 02 00 00 .....
019E5170  04 92 0A 00 01 00 00 00 B6 02 00 00 05 92 05 00 .....
019E5180  01 00 00 00 BE 02 00 00 07 92 03 00 01 00 00 00 .....
019E5190  05 00 00 00 08 92 03 00 01 00 00 00 00 00 00 00 .....
019E51A0  09 92 03 00 01 00 00 00 10 00 00 00 0A 92 05 00 .....
019E51B0  01 00 00 00 C6 02 00 00 86 92 07 00 7D 00 00 00 .....}...
019E51C0  CE 02 00 00 00 A0 07 00 04 00 00 00 30 31 30 30 .....0100
019E51D0  01 A0 03 00 01 00 00 00 01 00 00 00 02 A0 04 00 .....
019E51E0  01 00 00 00 00 04 00 00 03 A0 04 00 01 00 00 00 .....
019E51F0  00 03 00 00 00 A3 07 00 01 00 00 00 03 00 00 00 .....
--- sdb --0x19E51F0/0x40000000-----

```



```

root@chfivBox: ~
01A25000  FA 2A 52 87 04 A2 95 16 FD 68 48 58 02 62 0B 21 .*R.....hHX.b.!
01A25010  FC 68 A9 3D C8 48 90 0A 3D 11 59 2F 40 1E D0 8E .h.=.H..=.Y/@...
01A25020  37 1E 81 55 69 1D 55 4A 00 ED BD 46 04 04 4E D4 7..Ui.UJ...F..N.
01A25030  08 83 6D E8 28 51 A4 4D DB 7A 1C E2 65 15 EE 31 ..m.(Q.M.z..e..1
01A25040  B9 E5 EB B5 65 42 67 38 94 32 11 49 18 C6 23 8D ....eBg8.2.I..#.
01A25050  F5 43 E9 41 8F 28 BB 8B 09 30 25 2C 17 5A 10 31 .C.A.(...0%,.Z.1
01A25060  E2 72 01 DC CE BE 8C A2 8C E5 DB 02 07 33 F8 30 .r.....3.0
01A25070  DE A4 83 8C 50 39 1C 5B 6F 5A 8C 00 23 9A 13 22 ....P9.[oZ..#.."
01A25080  6F A5 AE 68 42 24 01 07 24 38 57 6F 51 44 86 E6 o..hB$.~$8WoQD..
01A25090  91 88 2E 37 65 FB AB 04 63 1F 94 21 1D 17 5F 4A ...7e...c...!..._J
01A250A0  84 81 E4 A9 28 A9 55 0A 52 D5 9E 5C 8A 9B 9B 5C ....(.U.R..\...\
01A250B0  AF C2 84 89 72 8B 62 10 32 03 A3 6F 51 99 3D 85 ....r.b.2..oQ.=.
01A250C0  0A 10 54 03 A3 A3 0A 2A 5F 89 2A 76 16 3E 95 39 ..T....*_.*v.>.9
01A250D0  15 40 8E 58 91 2B 83 23 D7 5A E7 33 C9 61 38 96 .@.X.+.#.Z.3.a8.
01A250E0  44 4B 11 5C 54 40 90 93 6D 37 6A 81 80 E5 17 00 DK.\T@..m7j.....
01A250F0  12 4B 15 42 7F 4A 58 31 88 45 21 CF AD 15 BD 88 .K.B.JX1.E!.....
01A25100  36 AF EE 29 E0 4F 71 71 C6 2E DB 01 5E E3 83 34 6..).0qq....^..4
01A25110  CC 71 FF 00 83 8E 53 99 8C A4 5F C8 8C 98 44 58 .q....S...._...DX
01A25120  5D 28 CC 80 64 4B A0 72 7A EE 69 E3 B1 26 E1 1E ](..dK.rz.i...&..
01A25130  94 83 A1 00 B9 2B AD 34 49 91 B7 FC BF 90 D2 84 .....+.4I.....
01A25140  65 16 44 2C 80 1E BB 50 FA 67 BD E5 CD 1D 46 94 e.D,...P.g....F.
01A25150  44 41 42 10 25 96 EA 76 A1 18 D8 1E 51 17 43 F1 DAB.%..v....Q.C.
01A25160  DE 96 2E E5 C8 47 1A 13 D2 84 78 B1 5E D8 B9 F4 .....G....x.^...
01A25170  50 EB 40 3A 6A 64 10 AE A0 D0 00 7A 2D C2 EA 7F P.@:jd.....z~...
01A25180  9D 21 2B A0 5B AA EF A2 52 5C 32 E9 25 1A AD 21 .!+.[...R\2.%..!
01A25190  90 EE 2C 49 45 4D B6 34 41 93 9B 06 54 1A 0A 13 ..,IEM.4A...T...
01A251A0  8B 10 C7 A6 FF 00 1E B4 40 ED 44 1F A1 09 BD 31 .....@.D....1
01A251B0  2B 63 B1 FE 74 A4 A2 5B 43 62 FB 51 11 B4 B5 17 +c..t..[Cb.Q....
01A251C0  24 1F B2 89 20 BA 22 8D 48 56 BB 68 B5 CE E2 D1 $... ".HV.h....
01A251D0  54 08 15 DF 57 A2 50 18 97 44 56 1B 11 64 A2 59 T...W.P..DV..d.Y
01A251E0  11 4C 93 F7 1B 0D E8 C2 41 EF E8 97 4F 85 12 1C .L.....A...O...
01A251F0  18 A9 05 DC 16 7E 94 48 24 44 13 CF EE 72 7A 25 .....~.H$D...rz%
--- sdb --0x1A251F0/0x40000000-----

```

```

root@chfiVBox: ~
01A26E00  3F 1A 0D A1 48 AA 0B DC 6D 42 40 28 72 4E FE 83 ?...H...mB@{rN..
01A26E10  53 4A C0 EA 62 55 F4 F5 AE 40 08 92 41 92 0E 49 SJ..bU...@..A..I
01A26E20  B8 A2 9D A6 44 0B B2 2E 9D 34 A9 11 00 0B F2 1A ....D....4.....
01A26E30  DF 4F 4A 25 0F 69 28 0A 0B 5C 35 26 AE A0 6D B0 .OJ%.i(..\5&..m.
01A26E40  1B 1A 08 4A 45 87 50 4B 84 3B 50 1A 05 7B AF C2 ...JE.PK.;P..{..
01A26E50  8A 1E FB 90 A6 DF AD 77 15 B1 BB 85 DA 89 05 41 .....w.....A
01A26E60  74 6B 9D B5 4E B4 0E B2 62 19 14 53 04 93 9B F2 tk..N...b..S....
01A26E70  0B BA 75 A3 24 07 52 AA 22 FB 1A 90 60 9F BA 45 ..u$.R."...`..E
01A26E80  CD 1E 41 08 ED DC 26 CD 7A 70 A1 C1 17 42 75 4A ..A...&.zp...BuJ
01A26E90  04 84 25 EE A5 EE BE 95 23 BA 92 09 67 D2 8A 02 ..%. ....#...g...
01A26EA0  24 4A 00 03 3D E8 C8 21 5D 08 62 07 51 4B A9 2E $J..=.!].b.QK..
01A26EB0  45 CA ED 51 89 8A 7E D0 5C 81 2D 7E EB 56 31 22 E..Q...~.\..~.V1"
01A26EC0  4F 53 AA 0B FF 00 2A 08 51 50 15 21 08 B9 4A 05 OS....*.QP.!..J.
01A26ED0  DA FE 88 BF 6A D0 00 85 D7 61 CB 47 D2 90 81 12 ....j....a.G....
01A26EE0  4F FD 1E D4 00 03 42 BB 4A CA FB 54 8F CB 2D 36 0.....B.J..T...-6
01A26EF0  01 2F F1 D2 B9 71 42 43 96 E4 FA 12 68 39 05 58 ./...qBC....h9.X
01A26F00  5D AA 2E F7 66 2B A8 02 89 42 80 24 8C 7B 5D 59 ]...f+...B.$.{]Y
01A26F10  56 8A 85 20 71 2C 85 4D 9C D8 50 37 90 75 36 5B V.. q,.M..P7.u6[
01A26F20  25 45 62 4A 00 18 22 0D 47 C6 9E 4E 45 AE 1D F5 %EbJ.."..G..NE...
01A26F30  DB 6A 70 40 17 00 21 BD 8E F4 7F A8 A9 6F E7 41 .jp@..!.....o.A
01A26F40  DC 94 08 52 4D BD 21 70 5D 06 EB 75 BB 51 24 82 ...RM.!p]..u.Q$.
01A26F50  AE 59 3E C1 FF 00 ED 51 B2 06 12 00 22 E8 86 89 .Y>....Q...."....
01A26F60  20 76 87 5D 0E FD 69 D4 1B 02 0A DB 7E B4 B1 08 v.]..i.....~....
01A26F70  54 72 22 9C A9 44 92 DB F8 6A FF D9 00 00 00 00 Tr"..D...j.....
01A26F80  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26F90  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FA0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FB0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FC0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FD0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FE0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
01A26FF0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
--- sdb          --0x1A26FF0/0x40000000-----

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