Int 10/AH=00h

VIDEO - SET VIDEO MODE

```
AH = 00h
AL = desired video mode (see #00010)
```

Return:

```
AL = video mode flag (Phoenix, AMI BIOS)
20h mode > 7
30h modes 0-5 and 7
3Fh mode 6
AL = CRT controller mode byte (Phoenix 386 BIOS v1.10)
```

Desc: Specify the display mode for the currently active display adapter

InstallCheck:

```
For Ahead adapters, the signature "AHEAD" at C000h:0025h.
For Paradise adapters, the signature "VGA=" at C000h:007Dh.
For Oak Tech OTI-037/057/067/077 chipsets, the signature "OAK VGA" at
C000h:0008h.
For ATI adapters, the signature "761295520" at C000h:0031h; the byte
at C000h:0043h indicates the chipset revision:
31h for 18800
32h for 18800-1
33h for 18800-2
34h for 18800-4
35h for 18800-5
62h for 68800AX (Mach32) (see also #00732)
```

```
the two bytes at C000h:0040h indicate the adapter type
"22" EGA Wonder
"31" VGA Wonder
"32" EGA Wonder800+
the byte at C000h:0042h contains feature flags

bit 1:
Mouse port present

bit 4:
Programmable video clock
the byte at C000h:0044h contains additional feature flags if chipset
byte > 30h (see #00009).
For Genoa video adapters, the signature 77h XXh 99h 66h at C000h:NNNNh,
where NNNNh is stored at C000h:0037h and XXh is
00h for Genoa 6200/6300
11h for Genoa 6400/6600
22h for Genoa 6100
33h for Genoa 5100/5200
55h for Genoa 5300/5400
for SuperEGA BIOS v2.41+, C000h:0057h contains the product level
for Genoa SuperEGA BIOS v3.0+, C000h:0070h contains the signature
"EXTMODE", indicating support for extended modes
```

Notes: IBM standard modes do not clear the screen if the high bit of AL is set (EGA or higher only). The Tseng ET4000 chipset is used by the Orchid Prodesigner II, Diamond SpeedSTAR VGA, Groundhog Graphics Shadow VGA, Boca Super X VGA, Everex EV-673, etc.. Intercepted by GRAFTABL from Novell DOS 7 and Caldera OpenDOS 7.01.

See Also: AX=0070h - AX=007Eh - AX=10E0h - AX=10F0h -

See Also: INT 33/AX=0028h - INT 5F/AH=00h - INT 62/AX=0001h - MEM 0040h:0049h

Index:
```
Installation check;Tseng ET4000|installation check;Ahead video cards
```

Index:
Installation check;Oak Technologies|installation check;ATI video cards

Index:
Installation check;Paradise video|installation check;Genoa video cards

Bitfields for ATI additional feature flags:

Bit(s)	Description (Table 00009)
0	70 Hz non-interlaced display
1	Korean (double-byte) characters
2	45 MHz memory clock rather than 40 MHz
3	zero wait states
4	paged ROMs
6	no 8514/A monitor support
7	HiColor DAC

(Table 00010)
Values for video mode:

text/ grph	text resol	pixel box	pixel resolution	colors	disply pages	scrn addr	system
00h = T	40x25	8x8	320x200	16gray	8	B800	CGA,PCjr,Tandy
= T	40x25	8x14	320x350	16gray	8	B800	EGA
= T	40x25	8x16	320x400	16	8	B800	MCGA
= T	40x25	9x16	360x400	16	8	B800	VGA
01h = T	40x25	8x8	320x200	16	8	B800	CGA,PCjr,Tandy
= T	40x25	8x14	320x350	16	8	B800	EGA
= T	40x25	8x16	320x400	16	8	B800	MCGA
= T	40x25	9x16	360x400	16	8	B800	VGA
02h = T	80x25	8x8	640x200	16gray	4	B800	CGA,PCjr,Tandy
= T	80x25	8x14	640x350	16gray	8	B800	EGA
= T	80x25	8x16	640x400	16	8	B800	MCGA
= T	80x25	9x16	720x400	16	8	B800	VGA
03h = T	80x25	8x8	640x200	16	4	B800	CGA,PCjr,Tandy
= T	80x25	8x14	640x350	16/64	8	B800	EGA

```
= T  80x25  8x16  640x400   16       8   B800 MCGA
= T  80x25  9x16  720x400   16       8   B800 VGA
= T  80x43  8x8   640x350   16       4   B800 EGA,VGA [17]
= T  80x50  8x8   640x400   16       4   B800 VGA [17]
04h = G  40x25  8x8   320x200    4       .   B800 CGA,PCjr,EGA,MCGA,VGA
05h = G  40x25  8x8   320x200   4gray    .   B800 CGA,PCjr,EGA
= G  40x25  8x8   320x200    4       .   B800 MCGA,VGA
06h = G  80x25  8x8   640x200    2       .   B800 CGA,PCjr,EGA,MCGA,VGA
= G  80x25   .       .     mono      .   B000 HERCULES.COM on HGC [14]
07h = T  80x25  9x14  720x350  mono     var  B000 MDA,Hercules,EGA
= T  80x25  9x16  720x400  mono      .   B000 VGA
08h = T 132x25  8x8  1056x200   16       .   B800 ATI EGA/VGA Wonder [2]
= T 132x25  8x8  1056x200  mono      .   B000 ATI EGA/VGA Wonder [2]
= G  20x25  8x8   160x200   16       .     .  PCjr, Tandy 1000
= G  80x25  8x16  640x400  color     .     .  Tandy 2000
= G  90x43  8x8   720x348  mono      .   B000 Hercules + MSHERC.COM
= G  90x45  8x8   720x360  mono      .   B000 Hercules + HERKULES [11]
= G  90x29  8x12  720x348  mono      .     .  Hercules + HERCBIOS [15]
09h = G  40x25  8x8   320x200   16       .     .  PCjr, Tandy 1000
= G  80x25  8x16  640x400  mono      .     .  Tandy 2000
= G  90x43  8x8   720x348  mono      .     .  Hercules + HERCBIOS [15]
0Ah = G  80x25  8x8   640x200    4       .     .  PCjr, Tandy 1000
0Bh =   reserved                                   (EGA BIOS internal use)
= G  80x25  8x8   640x200   16       .     .  Tandy 1000 SL/TL [13]
0Ch =   reserved                                   (EGA BIOS internal use)
0Dh = G  40x25  8x8   320x200   16       8   A000 EGA,VGA
0Eh = G  80x25  8x8   640x200   16       4   A000 EGA,VGA
0Fh = G  80x25  8x14  640x350  mono      2   A000 EGA,VGA
10h = G  80x25  8x14  640x350    4       2   A000 64k EGA
= G    .     .     640x350   16       .   A000 256k EGA,VGA
11h = G  80x30  8x16  640x480  mono      .   A000 VGA,MCGA,ATI EGA,ATI VIP
12h = G  80x30  8x16  640x480   16/256K  .   A000 VGA,ATI VIP
= G  80x30  8x16  640x480   16/64    .   A000 ATI EGA Wonder
= G    .     .     640x480   16       .     .  UltraVision+256K EGA
13h = G  40x25  8x8   320x200  256/256K  .   A000 VGA,MCGA,ATI VIP
14h = T 132x25  Nx16     .      16       .   B800 XGA, IBM Enhanced VGA [3]
= T 132x25  8x16 1056x400   16/256K  .     .  Cirrus CL-GD5420/5422/5426
= G  80x25  8x8   640x200    .       .     .  Lava Chrome II EGA
```

```
= G    .      .    640x400   16       .     .  Tecmar VGA/AD
15h = G  80x25  8x14  640x350    .       .     .  Lava Chrome II EGA
16h = G  80x25  8x14  640x350    .       .     .  Lava Chrome II EGA
= G    .      .    800x600   16       .     .  Tecmar VGA/AD
17h = T 132x25   .       .       .       .     .  Tecmar VGA/AD
= T  80x43  8x8   640x348   16       4   B800 Tseng ET4000 BIOS [10]
= G  80x34  8x14  640x480    .       .     .  Lava Chrome II EGA
18h = T  80x30  9x16  720x480   16       1   A000 Realtek RTVGA [12]
= T 132x25   .       .     mono      .   B000 Cirrus 5320 chipset
= T 132x44  8x8  1056x352  mono      .   B000 Tseng Labs EVA
= T 132x44  9x8  1188x352   4gray    2   B000 Tseng ET3000 chipset
= T 132x44  8x8  1056x352   16/256   2   B000 Tseng ET4000 chipset
= G  80x34  8x14  640x480    .       .     .  Lava Chrome II EGA
= G             1024x768   16       .     .  Tecmar VGA/AD
19h = T  80x43  9x11  720x473   16       1   A000 Realtek RTVGA [12]
= T 132x25  8x14 1056x350  mono      .   B000 Tseng Labs EVA
= T 132x25  9x14 1188x350   4gray    4   B000 Tseng ET3000 chipset
= T 132x25  8x14 1056x350   16/256   4   B000 Tseng ET4000 chipset
= T 132x34   .       .     mono      .   B000 Cirrus 5320 chipset
1Ah = T  80x60  9x8   720x480   16       1   A000 Realtek RTVGA [12]
= T 132x28  8x13 1056x364  mono      .   B000 Tseng Labs EVA
= T 132x28  9x13 1188x364   4gray    4   B000 Tseng ET3000 chipset
= T 132x28  8x13 1056x364   16/256   4   B000 Tseng ET4000 chipset
= T 132x44   .       .     mono      .   B000 Cirrus 5320 chipset
= G    .      .    640x350  256      .     .  Tecmar VGA/AD
1Bh = T 132x25  9x14 1188x350   16       1   A000 Realtek RTVGA [12]
= G    .      .    640x400  256      .     .  Tecmar VGA/AD
1Ch = T 132x25   .       .       .       .     .  Cirrus 5320 chipset
= T 132x30  9x16 1188x480   16       1   A000 Realtek RTVGA [12]
= G    .      .    640x480  256      .     .  Tecmar VGA/AD
1Dh = T 132x43   .       .       .       .     .  Cirrus 5320 chipset
= T 132x43  9x11 1188x473   16       1   A000 Realtek RTVGA [12]
= G    .      .    800x600  256      .     .  Tecmar VGA/AD
1Eh = T 132x44   .       .       .       .     .  Cirrus 5320 chipset
= T 132x60  9x8  1188x480   16       1   A000 Realtek RTVGA [12]
1Fh = G 100x75  8x8   800x600   16       1   A000 Realtek RTVGA
20h = T 132x25   .       .      16       .     .  Avance Logic AL2101
```

```
= G  40x16   .    240x128  mono      .   B000 HP 95LX/100LX/200LX
= G  80x30  8x16  640x480   16       .     .  C&T 64310/65530 BIOS
= G 120x45  8x16  960x720   16       1   A000 Realtek RTVGA
21h = T  80x25   .       .     mono      .   B000 HP 200LX
= T 132x30   .       .      16       .     .  Avance Logic AL2101
= T 132x44  9x9  1188x396   16/256K  .   B800 WD90C
= T 132x44  9x9  1188x396   16       .   B800 Diamond Speedstar 24X
= T 132x60   .       .      16       2   B800 Tseng ET4000 chipset [10]
= G  80x43  8x8   720x348  mono      .   B000 DESQview 2.x+Hercules [4]
= G 128x48  8x16 1024x768   16       1   A000 Realtek RTVGA [12]
22h = T 132x43   .       .       .       .     .  Allstar Peacock (VGA)
= T 132x43   .       .      16       .     .  Avance Logic AL2101
= T 132x44  8x8  1056x352    .       .   B800 Tseng Labs EVA
= T 132x44  9x8  1188x352   16/256K  2   B800 Tseng ET3000 chipset
= T 132x44  8x8  1056x352   16/256K  2   B800 Tseng ET4000 chipset
= T 132x44  8x8  1056x352    .       .     .  Ahead Systems EGA2001
= T 132x44  8x8  1056x352   16       2   B800 Ahead B
= T 132x44  8x9  1056x398   16       .     .  STB Lightspeed ET4000/W32P
= T 132x44   .       .      16       .     .  Orchid Prodesigner VGA
= G  80x43  8x8   720x348  mono      .   B800 DESQview 2.x+Hercules [4]
= G  96x64  8x16  768x1024  16       1   A000 Realtek RTVGA
= G 100x37  8x16  800x600   16       .     .  C&T 64310/65530 BIOS
23h = T 132x25  6x14  792x350    .       .   B800 Tseng Labs EVA
= T 132x25  9x14 1188x350   16/256K  4   B800 Tseng ET3000 chipset
= T 132x25  8x14 1056x350   16/256   4   B800 Tseng ET4000 chipset
= T 132x25  8x14 1056x350    .       .     .  Ahead Systems EGA2001
= T 132x25  8x14 1056x350   16       4   B800 Ahead B
= T 132x25  8x8  1056x200   16       .   B800 ATI EGA Wonder,ATI VIP
= T 132x25   .       .       .       .     .  Cirrus 5320 chipset
= T 132x28   .       .       .       .     .  Allstar Peacock (VGA)
= T 132x28   .       .      16       .     .  Orchid Prodesigner VGA
= T 132x60   .       .      16       .     .  Avance Logic AL2101
= G 128x48  8x16 1024x768    4       1   A000 Realtek RTVGA
24h = T  80x30   .       .      16       .     .  Avance Logic AL2101
= T 132x25   .       .       .       .     .  Allstar Peacock (VGA)
= T 132x25   .       .      16       .     .  Orchid Prodesigner VGA
= T 132x28  6x13  792x364    .       .   B800 Tseng Labs EVA
= T 132x28  9x13 1188x364   16/256K  4   B800 Tseng ET3000 chipset
```

```
= T 132x28  8x12 1056x336   16       1   B800 Ahead B
= T 132x28  8x13 1056x364   16/256K  4   B800 Tseng ET4000 chipset
= T 132x28  8x14 1056x392   16       .     .  STB Lightspeed ET4000/W32P
= T 132x28   .       .       .       .     .  Cirrus 5320 chipset
= G  64x32  8x16  512x512  256       1   A000 Realtek RTVGA
= G 128x48  8x16 1024x768   16       .     .  C&T 64310/65530 BIOS
25h = T  80x43   .       .      16       .     .  Avance Logic AL2101
= G  80x60  8x8   640x480    .       .   A000 Tseng Labs EVA
= G  80x60  8x8   640x480   16/256K  1   A000 Tseng ET3000/4000 chipset
= G    .     .    640x480   16       .     .  VEGA VGA
= G  80x60  8x8   640x480   16       .   A000 Orchid Prodesigner VGA
= G  80x60  8x8   640x480   16       1   A000 Ahead B (same as 26h)
= G    .     .    640x480   16       .     .  NEC GB-1
= G    .     .    640x480   16       .     .  Cirrus 5320 chipset
= G    .     .    640x400  256       .     .  Realtek RTVGA
26h = T  80x60  8x8   640x480    .       .     .  Tseng Labs EVA
= T  80x60  8x8   640x480   16/256K  3   B800 Tseng ET3000/4000 chipset
= T  80x60   .       .       .       .     .  Allstar Peacock (VGA)
= T  80x60   .       .      16       .     .  Orchid ProDesigner VGA
= T  80x60   .       .      16       .     .  Avance Logic AL2101
= G  80x60  8x8   640x480    .       .     .  Ahead Systems EGA2001
= G  80x60  8x8   640x480   16       1   A000 Ahead B (same as 25h)
= G    .     .    640x480  256       .     .  Realtek RTVGA
27h = T 132x25  8x8  1056x200  mono      .   B000 ATI EGA Wonder,ATI VIP
= G    .     .    720x512   16       .     .  VEGA VGA
= G    .     .    720x512   16       .     .  Genoa
= G 100x75  8x8   800x600  256       1   A000 Realtek RTVGA [12]
= G    .     .    960x720   16       .     .  Avance Logic AL2101
28h = T ???x???  .       .       .       .     .  VEGA VGA
= G    .     .    512x512  256       .     .  Avance Logic AL2101
= G    .     .   1024x768  256       .     .  Realtek RTVGA (1meg)
= G 160x64  8x16 1280x1024  16       .     .  Chips&Technologies 64310 [1]
29h = G    .     .    640x400  256       .     .  Avance Logic AL2101
= G    .     .    800x600   16       .     .  VEGA VGA
= G 100x37  8x16  800x600   16       .   A000 Orchid
= G    .     .    800x600   16       .   A000 STB,Genoa,Sigma
= G    .     .    800x600   16       .     .  Allstar Peacock (VGA)
```

```
= G 100x37  8x16  800x600   16/256K  1   A000 Tseng ET3000/4000 chipset
= G    .     .    800x600  ???       .     .  EIZO MDB10
= G    .     .    800x600   16       .     .  Cirrus 5320 chipset
= G   NA     .    800x600   16       .     .  Compaq QVision 1024/1280
= G    .     .   1024x1024 256       .     .  Realtek RTVGA BIOS v3.C10
2Ah = T 100x40   .       .       .      .     .  Allstar Peacock (VGA)
= T 100x40  8x16  800x640   16       .     .  Orchid Prodesigner VGA
= T 100x40  8x15  800x600   16/256K  4   B800 Tseng ET3000/4000 chipset
= T 100x40  8x15  800x600   16       .     .  STB Lightspeed ET4000/W32P
= G    .     .    640x480  256      .     .  Avance Logic AL2101
= G    .     .   1280x1024  16       .     .  Realtek RTVGA
2Bh = G    .     .    800x600   16      .     .  Avance Logic AL2101
2Ch = G    .     .    800x600  256      .     .  Avance Logic AL2101
2Dh = G    .     .    640x350  256      .     .  VEGA VGA
= G    .     .    640x350  256/256K  .   A000 Orchid, Genoa, STB
= G  80x25  8x14  640x350  256/256K  1   A000 Tseng ET3000/4000 chipset
= G    .     .    640x350  256       .     .  Cirrus 5320 chipset
= G  80x25  8x14  640x350  256       .     .  STB Lightspeed ET4000/W32P
= G    .     .    768x1024  16       .     .  Avance Logic AL2101
2Eh = G    .     .    640x480  256      .     .  VEGA VGA
= G  80x30  8x16  640x480 256/256K   .   A000 Orchid
= G    .     .    640x480 256/256K   .   A000 STB,Genoa,Sigma
= G  80x30  8x16  640x480 256/256K   1   A000 Tseng ET3000/4000 chipset
= G    .     .    640x480 256/256K   .     .  Compaq QVision 1024/1280
= G    .     .    768x1024 256       .     .  Avance Logic AL2101
2Fh = T 160x50  8x8  1280x400   16      4   B800 Ahead B (Wizard/3270)
= G    .     .    720x512  256       .     .  VEGA VGA
= G    .     .    720x512  256       .     .  Genoa
= G  80x25  8x16  640x400 256/256K   1   A000 Tseng ET4000 chipset
= G    .     .   1024x768    4       .     .  Avance Logic AL2101
30h = G  80x30  8x16  640x480  256      .     .  C&T 64310/65530 BIOS
= G    .     .       .       .       .   B800 AT&T 6300
= G    .     .    720x350    2       .     .  3270 PC
= G    .     .    800x600  256       .     .  VEGA VGA
= G 100x37  8x16  800x600 256/256K   .   A000 Orchid
= G    .     .    800x600 256/256K   .   A000 STB,Genoa,Sigma
= G    .     .    800x600  256       .     .  Cardinal
= G 100x37  8x16  800x600 256/256K   1   A000 Tseng ET3000/4000 chipset
```

```
= G    .     .   1024x768   16       .     .  Avance Logic AL2101
31h = G    .     .   1024x768  256       .     .  Avance Logic AL2101
32h = T  80x34  8x10     .      16       4   B800 Ahead B (Wizard/3270)
= G    .     .    640x480  256       .     .  Compaq QVision 1024/1280
= G 100x37  8x16  800x600  256       .     .  C&T 64310/65530 BIOS
33h = T 132x44  8x8      .      16       .   B800 ATI EGA Wonder,ATI VIP
= T  80x34  8x8      .      16       4   B800 Ahead B (Wizard/3270)
34h = T  80x66  8x8      .      16       4   B800 Ahead B (Wizard/3270)
= G    .     .    800x600  256       .     .  Compaq QVision 1024/1280
= G 128x48  8x16 1024x768  256       .     .  Chips&Technologies 64310
36h = G    .     .    960x720   16       .     .  VEGA VGA, STB
= G    .     .    960x720   16       .   A000 Tseng ET3000 only
= G    .     .   1280x1024  16       .     .  Avance Logic AL2101
37h = T 132x44  8x8      .     mono      .   B800 ATI EGA Wonder,ATI VIP
= G    .     .   1024x768   16       .     .  VEGA VGA
= G 128x48  8x16 1024x768   16       .   A000 Orchid
= G    .     .   1024x768   16       .   A000 STB,Genoa,Sigma
= G    .     .   1024x768   16       .     .  Definicon
= G 128x48  8x16 1024x768   16       1   A000 Tseng ET3000/4000 chipset
= G    .     .   1024x768   16       .     .  Compaq QVision 1024/1280
= G    .     .   1280x1024 256       .     .  Avance Logic AL2101
38h = G    .     .   1024x768  256       .     .  STB VGA/EM-16 Plus (1MB)
= G 128x48  8x16 1024x768  256/256K  1   A000 Tseng ET4000 chipset
= G    .     .   1024x768  256       .     .  Orchid ProDesigner II
= G    .     .   1024x768  256       .     .  Compaq QVision 1024/1280
= G 160x64  8x16 1280x1024 256       .     .  Chips&Technologies 64310 [1]
39h = G    .     .   1280x1024  16       .     .  Compaq QVision 1280
3Ah = G    .     .   1280x1024 256       .     .  Compaq QVision 1280
3Bh = G    .     .    512x480  256       .     .  Compaq QVision 1024/1280
3Ch = G    .     .    640x400   64K      .     .  Compaq QVision 1024/1280
3Dh = G    .     .   1280x1024  16       .     .  Definicon
= G 128x64  8x16 1280x1024  16       1   A000 Tseng ET4000 v3.00 [1,7]
3Eh = G    .     .   1280x961   16       .     .  Definicon
= G    .     .    640x480   64K      .     .  Compaq QVision 1024/1280
3Fh = G    .     .   1280x1024 256       .     .  Hercules ??? (ET4000W32)
= G    .     .    800x600   64K      .     .  Compaq QVision 1024/1280
40h = T  80x43   .       .       .       .     .  VEGA VGA, Tecmar VGA/AD
```

```
= T  80x43   .       .       .       .     .  Video7 V-RAM VGA
= T  80x43   .       .       .       .     .  Tatung VGA
= T 100x30   .       .      16       .     .  MORSE VGA
= T 100x30   .       .       .       .     .  Cirrus 510/520 chipset
= T  80x25   .    720x350  mono      .     .  Genoa SuperEGA BIOS 3.0+
= G    .     .    320x200   64K      .     .  Avance Logic AL2101
= G  80x25  8x16  640x400    2       1   B800 AT&T 6300, AT&T VDC600
= G  80x25  8x16  640x400    2       1   B800 Olivetti Quaderno
= G  80x25  8x16  640x400    2       1   B800 Compaq Portable
= G  80x30  8x16  640x480  32K       .     .  Chips&Technologies 64310
= G    .     .   1024x768   64K      .     .  Compaq QVision 1280
41h = T 132x25   .       .       .       .     .  VEGA VGA
= T 132x25   .       .       .       .     .  Tatung VGA
= T 132x25   .       .       .       .     .  Video7 V-RAM VGA
= T 100x50   .       .      16       .     .  MORSE VGA
= T 100x50   .       .       .       .     .  Cirrus 510/520 chipset
= T  80x34  9x14  720x476   16/256K  .   B800 WD90C
= T  80x34  9x14     .      16       .   B800 Diamond Speedstar 24X
= G    .     .    512x512   64K      .     .  Avance Logic AL2101
= G    .     .    640x200   16       1     .  AT&T 6300
= G  80x30  8x16  640x480   64K      .     .  Chips&Technologies 64310
= G  80x25   .    720x348  mono      .   B000 Genoa SuperEGA BIOS 3.0+
42h = T 132x43   .       .       .       .     .  VEGA VGA
= T 132x43   .       .       .       .     .  Tatung VGA
= T 132x43   .       .       .       .     .  Video7 V-RAM VGA
= T  80x34  9x10     .       4       4   B800 Ahead B (Wizard/3270)
= T 100x60   .       .      16       .     .  MORSE VGA
= T 100x60   .       .       .       .     .  Cirrus 510/520 chipset
= G  80x25  8x16  640x400   16       .     .  AT&T 6300, AT&T VDC600
= G    .     .    640x400   64K      .     .  Avance Logic AL2101
= G  80x25   .    720x348  mono      .   B800 Genoa SuperEGA BIOS 3.0+
= G 100x37  8x16  800x600   32K      .     .  Chips&Technologies 64310
43h = T  80x60   .       .       .       .     .  VEGA VGA
= T  80x60   .       .       .       .     .  Tatung VGA
= T  80x60   .       .       .       .     .  Video7 V-RAM VGA
= T  80x45  9x8      .       4       4   B800 Ahead B (Wizard/3270)
= T 100x75   .       .      16       .     .  MORSE VGA
= T  80x29   .    720x348  mono      .     .  Genoa SuperEGA BIOS 3.0+
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= G    .     . 640x200 of 640x400 viewport    AT&T 6300 (unsupported)
= G    .     .    640x480   64K      .     .  Avance Logic AL2101
= G 100x37  8x16  800x600   64K      .     .  Chips&Technologies 64310
44h =  disable VDC and DEB output              .  AT&T 6300
= T 100x60   .       .       .      .     .  VEGA VGA
= T 100x60   .       .       .      .     .  Tatung VGA
= T 100x60   .       .       .      .     .  Video7 V-RAM VGA
= T  80x32   .    720x352  mono      .     .  Genoa SuperEGA BIOS 3.0+
= G    .     .    800x600   64K      .     .  Avance Logic AL2101
45h = T 132x28   .       .       .      .     .  Tatung VGA
= T 132x28   .       .       .      .     .  Video7 V-RAM VGA
= T  80x44   .    720x352  mono      .     .  Genoa SuperEGA BIOS 3.0+
46h = T 132x25  8x14     .     mono      .     .  Genoa 6400
= T 132x25  9x14     .     mono      .     .  Genoa SuperEGA BIOS 3.0+
= G 100x40  8x15  800x600    2       .     .  AT&T VDC600
47h = T 132x29  8x12     .     mono      .     .  Genoa 6400
= T 132x29  9x12     .     mono      .     .  Genoa SuperEGA BIOS 3.0+
= T 132x28  9x16 1188x448   16/256K  .   B800 WD90C
= T 132x28  9x16     .      16       .   B800 Diamond Speedstar 24X
= G 100x37  8x16  800x600   16       .     .  AT&T VDC600
48h = T 132x32  8x12     .     mono      .     .  Genoa 6400
= T 132x32  9x11     .     mono      .     .  Genoa SuperEGA BIOS 3.0+
= G  80x50  8x8   640x400    2       .   B800 AT&T 6300, AT&T VDC600
= G  80x50  8x8   640x400    2       .   B800 Olivetti Quaderno
49h = T 132x44  8x8      .     mono      .     .  Genoa 6400
= T 132x44  9x8      .     mono      .     .  Genoa SuperEGA BIOS 3.0+
= G  80x30  8x16  640x480    .       .     .  Lava Chrome II EGA
= G  80x30  8x16  640x480    .       .   A000 Diamond Stealth64 Video 2xx1
4Bh = G 100x37  8x16  800x600    .       .   A000 Diamond Stealth64 Video 2xx1
4Dh = T 120x25   .       .       .      .     .  VEGA VGA
= G    .     .    512x480   16M      .     .  Compaq QVision 1024/1280
= G 128x48  8x16 1024x768    .       .   A000 Diamond Stealth64 Video 2xx1
4Eh = T 120x43   .       .       .      .     .  VEGA VGA
= T  80x60  8x8      .      16/256K  .   B800 Oak OTI-067/OTI-077 [8]
= G    .     .    640x400   16M      .     .  Compaq QVision 1024/1280
= G 144x54  8x16 1152x864    .       .   A000 Diamond Stealth64 Video 2xx1
4Fh = T 132x25   .       .       .      .     .  VEGA VGA
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= T 132x60   .       .       .       .     .  some Oak Tech VGA [8]
= G    .     .    640x480   16M      .     .  Compaq QVision 1280
50h = T  80x30  8x16     .      16/256K  .   B800 Trident TVGA 8800/8900
= T  80x34   .       .       .       .     .  Lava Chrome II EGA
= T  80x43   .       .     mono      .     .  VEGA VGA
= T 132x25  9x14     .     mono      .     .  Ahead Systems EGA2001
= T 132x25  9x14     .       4       4   B800 Ahead B
= T 132x25  8x14     .      16       8   B800 OAK Technologies VGA-16
= T 132x25  8x14     .      16/256K  .   B800 Oak OTI-037/067/077 [8]
= T 132x25  8x14 1056x350   16       8   B800 UM587 chipset
= T 132x30   .       .      16       .     .  MORSE VGA
= T 132x30   .       .       .       .     .  Cirrus 510/520 chipset
= G  80x30  8x16  640x480   16       .     .  Paradise EGA-480
= G  80x30  8x16  640x480   16       .     .  NEL Electronics BIOS
= G  80x30  8x16  640x480   16M      .     .  Chips&Technologies 64310
= G    .     .    640x480  mono???   .     .  Taxan 565 EGA
= G  40x25  8x8   320x200    .       .     .  Genoa SuperEGA BIOS 3.0+
51h = T  80x30  8x16     .       .       .      .  Paradise EGA-480
= T  80x30  9x16     .       .       .     .  NEL Electronics BIOS
= T  80x30   .       .       .       .     .  Lava Chrome II EGA
= T  80x43  8x11     .      16/256K  .   B800 Trident TVGA 8800/8900
= T 132x25   .       .     mono      .     .  VEGA VGA
= T 132x28  9x12     .       4       4   B800 Ahead B
= T 132x43  8x8      .      16       5   B800 OAK Technologies VGA-16
= T 132x43  8x8      .      16/256K  .   B800 Oak OTI-037/067/077
= T 132x43  8x8  1056x344   16       5   B800 UM587 chipset
= T 132x50   .       .      16       .     .  MORSE VGA
= T 132x50   .       .       .       .     .  Cirrus 510/520 chipset
= G  80x34  8x14  640x480   16       .     .  ATI EGA Wonder
= G  80x25  8x8   640x200    .       .     .  Genoa SuperEGA BIOS 3.0+
52h = T  80x60   .       .       .       .      .  Lava Chrome II EGA
= T  80x60  8x8      .      16/256K  .   B800 Trident TVGA 8800/8900
= T 132x43   .       .     mono      .     .  VEGA VGA
= T 132x44  9x8      .     mono      .     .  Ahead Systems EGA2001
= T 132x44  9x8      .       4       2   B800 Ahead B
= T 132x60   .       .      16       .     .  MORSE VGA
= T 132x60   .       .       .       .     .  Cirrus 510/520 chipset
= G  80x25  8x19  640x480   16       1   A000 AX VGA (Kanji&superimpose)
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= G  94x29  8x14  752x410   16       .     .  ATI EGA Wonder
= G 100x75  8x8   800x600   16       1   A000 OAK Technologies VGA-16
= G 100x75  8x8   800x600   16       .   A000 Oak OTI-037 chipset [8]
= G 100x37  8x16  800x600   16       .   A000 Oak OTI-067/077 chips [8]
= G 100x75  8x8   800x600   16       .   A000 UM587 chipset
= G 128x30  8x16 1024x480   16       .     .  NEL Electronics BIOS
53h = T  80x25  8x16     .       .       .     .  NEL Electronics BIOS
= T  80x60   .       .      16       .     .  MORSE VGA
= T  80x60   .       .       .       .     .  Cirrus 510/520 chipset
= T 132x25  8x14     .      16/256K  .   B800 Trident TVGA 8800/8900
= T 132x43   .       .       .       .     .  Lava Chrome II EGA
= G  80x25  8x19  640x480   16       1   A000 AX VGA (Kanji, no superimp.)
= G    .     .    640x480  256      .     .  Oak VGA
= G  80x30  8x16  640x480  256      .   A000 Oak OTI-067/OTI-077 [8]
= G 100x40  8x14  800x560   16       .     .  ATI EGA Wonder,ATI VIP
= G    .     .       .       .       .     .  AX PC
54h = T 132x25   .       .       .       .     .  Lava Chrome II EGA
= T 132x30  8x16     .      16/256K  .   B800 Trident TVGA 8800/8900
= T 132x43  8x8      .       .       .     .  Paradise EGA-480
= T 132x43  8x8      .       .       .     .  NEL Electronics BIOS
= T 132x43  7x9      .      16/256K  .   B800 Paradise VGA
= T 132x43  8x9      .      16/256K  .   B800 Paradise VGA on multisync
= T 132x43   .       .       .       .     .  Taxan 565 EGA
= T 132x43   .       .       .       .     .  AST VGA Plus
= T 132x43   .       .       .       .     .  Hewlett-Packard D1180A
= T 132x43  7x9      .      16       .     .  AT&T VDC600
= T 132x43  9x9  1188x387   16/256K  .   B800 WD90C
= T 132x43  9x9  1188x387   16/256K  .   B800 Diamond Speedstar 24X
= T 132x43  9x9  1188x387   16/256K  .   B800 Diamond Stealth 24
= T 132x43  8x8      .       .       .   B800 Diamond Stealth64 Video 2xx1
= T 132x43  8x8  1056x350   16/256K  .     .  Cirrus CL-GD5420/5422/5426
= T 132x50  8x8      .      16       .   A000 NCR 77C22 [9]
= G 100x42  8x14  800x600   16       .   A000 ATI EGA Wonder, VGA Wonder
= G 100x42  8x14  800x600   16       .   A000 ATI Ultra 8514A, ATI XL
= G    .     .    800x600  256      .   A000 Oak VGA
= G 100x37  8x16  800x600  256      .   A000 Oak OTI-067/077 chips [8]
55h = T  80x66  8x8      .      16/256K  .   A000 ATI VIP
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= T 132x25  8x14     .       .       .     .  Paradise EGA-480
= T 132x25  8x14     .       .       .     .  NEL Electronics BIOS
= T 132x25  7x16     .     16/256K   .   B800 Paradise VGA
= T 132x25  8x16     .     16/256K   .   B800 Paradise VGA on multisync
= T 132x25   .       .       .       .     .  Taxan 565 EGA
= T 132x25   .       .       .       .     .  AST VGA Plus
= T 132x25   .       .       .       .     .  Hewlett-Packard D1180A
= T 132x25  7x16     .     16        .     .  AT&T VDC600
= T 132x25  8x16     .     16        .   A000 NCR 77C22 [9]
= T 132x25  9x16 1188x400  16/256K   .   B800 WD90C
= T 132x25  9x16 1188x400  16/256K   .   B800 Diamond Speedstar 24X
= T 132x25  9x16 1188x400  16/256K   .   B800 Diamond Stealth 24
= T 132x25  8x16     .       .       .   B800 Diamond Stealth64 Video 2xx1
= T 132x25  8x14 1056x350  16/256K   .     .  Cirrus CL-GD5420/5422/5426
= T 132x43  8x11     .     16/256K   .   B800 Trident TVGA 8800/8900
= G  94x29  8x14  752x410    .       .     .  Lava Chrome II EGA
= G 128x48  8x16 1024x768  16/256K   .   A000 ATI VGA Wonder v4+  [5]
= G    .     .   1024x768  16/256K   .     .  ATI VGA Wonder Plus
= G    .     .   1024x768  16/256K   .     .  ATI Ultra 8514A,ATI XL
= G 128x48  8x16 1024x768    4       .   A000 Oak OTI-067/077 chips [8]
56h = T 132x43  8x8      .       3???    2   B000 NSI Smart EGA+
= T 132x43  7x9      .       4       .   B000 Paradise VGA
= T 132x43  8x9      .       4       .   B000 Paradise VGA on multisync
= T 132x43   .       .     mono      .     .  Taxan 565 EGA
= T 132x43  7x9      .       2       .     .  AT&T VDC600
= T 132x43  9x8      .       .       .     .  NEL Electronics BIOS
= T 132x50  8x8      .       4       .   A000 NCR 77C22 [9]
= T 132x60  8x8      .     16/256K   .   B800 Trident TVGA 8800/8900
= G    .     .   1024x768   16       .   A000 Oak VGA
= G 128x48  8x16 1024x768   16       .   A000 Oak OTI-067/077 chips [8]
57h = T 132x25  8x14     .       3???    4   B000 NSI Smart EGA+
= T 132x25  7x16     .       4       .   B000 Paradise VGA
= T 132x25  8x16     .       4       .   B000 Paradise VGA on multisync
= T 132x25  9x14     .       .       .     .  NEL Electronics BIOS
= T 132x25   .       .     mono      .     .  Taxan 565 EGA
= T 132x25  7x16     .       2       .     .  AT&T VDC600
= T 132x25  9x14     .     16/256K   .   B800 Trident TVGA 8800/8900
= T 132x25  8x16     .       4       .   A000 NCR 77C22 [9]
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= G  96x48  8x16  768x1024  16       .   A000 Oak OTI-067/077 chips [8]
58h = T  80x33  8x14     .      16       .   B800 ATI EGA Wonder,ATI VIP
= T  80x32  9x16     .      16       .     .  Genoa 6400
= T  80x43  8x8      .       .       .     .  NEL Electronics BIOS
= T 132x30  9x16     .      16/256K  .   B800 Trident TVGA 8800/8900
= G 100x75  8x8   800x600   16/256K  .   A000 Paradise VGA
= G 100x75  8x8   800x600   16       .     .  AT&T VDC600
= G 100x75  8x8   800x600   16       .   A000 NCR 77C22 [9]
= G 100x75  8x8   800x600   16       .   A000 Diamond Speedstar 24X
= G 100x75  8x8   800x600   16/256K  .   A000 Paradise VGA, WD90C
= G    .     .    800x600   16       .     .  AST VGA Plus, Compaq VGA
= G    .     .    800x600   16       .     .  Dell VGA
= G    .     .    800x600   16       .     .  Hewlett-Packard D1180A
= G    .     .    800x600  ???       .     .  ELT VGA PLUS 16
= G 100x37  8x16  800x600   16/256K  .   A000 Cirrus CL-GD5420/5422/5426
= G 160x64  8x16 1280x1024  16       .   A000 Oak OTI-077 chipset [8]
59h = T  80x43  9x8      .       .       .     .  NEL Electronics BIOS
= T  80x66  8x8      .      16/256K  .   A000 ATI VIP
= T 132x43  9x11     .      16/256K  .   B800 Trident TVGA 8800/8900
= G 100x75  8x8   800x600    2       .   A000 Paradise VGA
= G 100x75  8x8   800x600    2       .     .  AT&T VDC600
= G    .     .    800x600    2       .     .  AST VGA Plus, Compaq VGA
= G    .     .    800x600    2       .     .  Dell VGA
= G    .     .    800x600    2       .     .  Hewlett-Packard D1180A
= G 100x75  8x8   800x600    2       .   A000 NCR 77C22 [9]
= G 128x48  8x16 1024x768  256       .   A000 Oak OTI-077 chipset [8]
5Ah = T  80x60  8x8      .       .       .     .  NEL Electronics BIOS
= T 132x60  9x8      .      16/256K  .   B800 Trident TVGA 8800/8900
= G 128x48  8x16 1024x768    2       .   A000 NCR 77C22 [9]
5Bh = T  80x30  8x16     .       .       .   B800 ATI VGA Wonder (undoc)
= G    .     .    640x350  256       .     .  Genoa 6400
= G  80x25  8x16  640x400   32K      .   A000 Oak OTI-067/077 chips [8]
= G    .     .    800x600   16       .     .  Maxxon, SEFCO TVGA, Imtec
= G 100x75  8x8   800x600   16/256K  .   A000 Trident TVGA 8800, 8900
= G    .     .    800x600  ???       .     .  Vobis MVGA
= G 100x37  8x16  800x600    .       .     .  NEL Electronics BIOS
= G 128x48  8x16 1024x768   16       .   A000 NCR 77C22 [1,9]
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5Ch = T 100x37  8x16     .       .       .     .  NEL Electronics BIOS
= G    .     .    640x400  256       .     .  Logix, ATI Prism Elite
= G    .     .    640x400  256       .     .  Maxxon, SEFCO TVGA, Imtec
= G  80x25  8x16  640x400  256/256K  .   A000 Zymos Poach, Hi Res 512
= G  80x25  8x16  640x400  256/256K  .   A000 Trident TVGA 8800/8900
= G  80x30  8x16  640x480  256       .     .  Genoa 6400
= G  80x30  8x16  640x480   32K      .   A000 Oak OTI-077 chipset [8]
= G 100x75  8x8   800x600  256       .   A000 NCR 77C22 [9]
= G 100x75  8x8   800x600  256/256K  .   A000 WD90C
= G 100x75  8x8   800x600  256/256K  .   A000 Diamond Speedstar 24X
= G 100x37  8x16  800x600  256/256K  .   A000 Cirrus CL-GD5420/5422/5426
5Dh = T 100x75  8x8      .       .       .     .  NEL Electronics BIOS
= G  80x25  8x14  640x350   64K      .     .  STB Lightspeed ET4000/W32P
= G    .     .    640x480  256       .     .  Logix, ATI Prism Elite
= G    .     .    640x480  256       .     .  Maxxon, SEFCO TVGA, Imtec
= G  80x30  8x16  640x480  256/256K  .   A000 Zymos Poach, Hi Res 512
= G  80x30  8x16  640x480  256/256K  .   A000 Trident TVGA 8800 (512K)
= G 128x48  8x16 1024x768   16       .   A000 NCR 77C22 [9]
= G 128x48  8x16 1024x768   16/256K  .   A000 WD90C
= G 128x48  8x16 1024x768   16       .   A000 Diamond Speedstar 24X
= G 128x48  8x16 1024x768   16/256K  .   A000 Cirrus CL-GD5420/5422/5426
5Eh = G    .     .    640x400  256       .     .  Paradise VGA,VEGA VGA
= G    .     .    640x400  256       .     .  AST VGA Plus, NCR 77C22
= G    .     .    640x400  256       .     .  Compaq VGA, Dell VGA
= G  80x25  8x16  640x400  256       .     .  AT&T VDC600
= G  80x25  8x16  640x400  256       .   A000 NCR 77C22 [9]
= G  80x25  8x16  640x400  256/256K  .   A000 WD90C
= G  80x25  8x16  640x400  256/256K  .   A000 Diamond Speedstar 24X
= G    .     .    800x600   16       .     .  Logix, ATI Prism Elite
= G 100x37  8x16  800x600   16       .     .  NEL Electronics BIOS
= G 100x75  8x8   800x600  256       .     .  Genoa 6400
= G 100x75  8x8   800x600  256/256K  .   A000 Zymos Poach, Trident 8900
= G 100x75  8x8   800x600  256/256K  .   A000 Hi Res 512
5Fh = G  80x25  8x16  640x400   64K      .     .  STB Lightspeed ET4000/W32P
= G    .     .    640x480  256       .     .  Paradise VGA
= G    .     .    640x480  256       .     .  AST VGA Plus, NCR 77C22
= G    .     .    640x480  256       .     .  Compaq VGA, Dell VGA
= G    .     .    640x480  256       .     .  Hewlett-Packard D1180A
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= G  80x30  8x16  640x480  256       .     .  AT&T VDC600 (512K)
= G  80x30  8x16  640x480  256       .   A000 NCR 77C22 [9]
= G  80x30  8x16  640x480  256/256K  .   A000 WD90C
= G  80x30  8x16  640x480  256/256K  .   A000 Diamond Speedstar 24X
= G  80x30  8x16  640x480  256/256K  .   A000 Cirrus CL-GD5420/5422/5426
= G    .     .   1024x768   16       .     .  Logix, ATI Prism Elite
= G    .     .   1024x768   16       .     .  Maxxon, Imtec
= G 128x48  8x16 1024x768   16       .     .  Genoa 6400
= G 128x48  8x16 1024x768   16/256K  .   A000 Zymos Poach, Hi Res 512
= G 128x48  8x16 1024x768   16/256K  .   A000 Trident TVGA 88/8900 512K
60h = T 132x25  8x14     .      16/64    8   B800 Quadram Ultra VGA
= T 132x25  8x14     .      16       .     .  Genoa 6400
= T 132x25  8x14     .      16       .     .  Genoa SuperEGA BIOS 3.0+
= T 132x25   .       .       .       .     .  Cirrus 5320 chipset
= T 132x25  8x16 1056x400   16       .   B800 Chips&Technologies chipset
= G  80x???  .    ???x400    .       .     .  Corona/Cordata BIOS 4.10+
= G  80x25  8x16  640x400  256       1   A000 Ahead A, Ahead B
= G    .     .    752x410    .       .     .  VEGA VGA
= G    .     .    752x410   16       .     .  Tatung VGA
= G    .     .    752x410   16       .     .  Video7 V-RAM VGA
= G 128x48  8x16 1024x768    4/256K  .   A000 Trident TVGA 8900
= G 128x48  8x16 1024x768  256/256K  .   A000 WD90C
= G 128x48  8x16 1024x768  256/256K  .   A000 Diamond Speedstar 24X
= G 128x48  8x16 1024x768  256/256K  .   A000 Cirrus CL-GD5420/5422/5426
= G 144x54  8x16 1152x864    .       .   A000 Diamond Stealth64 Video 2xx1
61h = T 132x29  8x12     .      16/64    8   B800 Quadram Ultra VGA
= T 132x29  8x8      .      16       .     .  Genoa 6400
= T 132x29  8x8      .      16       .     .  Genoa SuperEGA BIOS 3.0+
= T 132x50   .       .       .       .     .  Cirrus 5320 chipset
= T 132x50  8x8  1056x400   16       .   B800 Chips&Technologies chipset
= T 132x50  8x16 1056x800   16       .   B800 Chips&Technologies 64310
= G    .     .    ???x400    .       .     .  Corona/Cordata BIOS 4.10+
= G  80x25  8x16  640x400  256       .   A000 ATI VGA Wonder,VGA Wonder+
= G  80x25  8x16  640x400  256       .   A000 ATI Ultra 8514A,ATI XL
= G  80x25  8x16  640x400    .       .   A000 Diamond Stealth64 Video 2xx1
= G  80x30  8x16  640x480  256       1   A000 Ahead A, Ahead B (512K)
= G    .     .    720x540    .       .     .  VEGA VGA
```

```
= G    .     .    720x540   16        .     .  Tatung VGA
= G    .     .    720x540   16        .     .  Video7 V-RAM VGA
= G  96x64  8x16  768x1024  16/256K   .   A000 Trident TVGA 88/8900 512K
= G 128x48  8x16 1024x768  256        .   A000 NCR 77C22 [1,9]
= G 144x54  8x16 1152x864    .        .   A000 Diamond Stealth64 Video 2xx1
62h = T 132x32  8x11     .      16/64    6   B800 Quadram Ultra VGA
= T 132x32  8x12     .      16        .     .  Genoa 6400
= T 132x32  8x11     .      16        .     .  Genoa SuperEGA BIOS 3.0+
= T 132x43  8x8  1056x344   16        .   B800 C&T 82C450 BIOS
= G    .     .    640x450   16        .     .  Cirrus 510/520 chipset
= G  80x30  8x16  640x480  256        .   A000 ATI VGA Wonder,VGA Wonder+
= G  80x30  8x16  640x480  256        .   A000 ATI Ultra 8514A,ATI XL
= G  80x30  8x16  640x480  32K        .   A000 WD90C
= G  80x30  8x16  640x480  32K        .   A000 Diamond Speedstar 24X
= G    .     .    800x600    .        .     .  VEGA VGA
= G    .     .    800x600   16        .     .  Tatung VGA
= G    .     .    800x600   16        .     .  Video7 V-RAM VGA
= G 100x75  8x8   800x600  256        1   A000 Ahead A, Ahead B (512K)
= G 128x48  8x16 1024x768  256/256K   .   A000 Trident TVGA 8900, Zymos
= G 128x48  8x16 1024x768  256        .   A000 NCR 77C22 [9]
63h = T 132x44  8x8      .      16/64    5   B800 Quadram Ultra VGA
= T 132x44  8x8      .      16        .     .  Genoa 6400
= T 132x44  8x8      .      16        .     .  Genoa SuperEGA BIOS 3.0+
= G    .     .    720x540   16        .     .  MORSE VGA
= G    .     .    720x540   16        .     .  Cirrus 510/520 chipset
= G 100x42  8x14  800x600  256        .   A000 ATI VGA Wonder,VGA Wonder+
= G 100x42  8x14  800x600  256        .   A000 ATI Ultra 8514A,ATI XL
= G    .     .    800x600  32K        .   A000 WD90C
= G    .     .    800x600  32K        .   A000 Diamond Speedstar 24X
= G 128x48  7x16 1024x768  256        1   A000 Ahead B (1MB)
= G    .     .   1024x768    2        .     .  Video7 V-RAM VGA
64h = T 132x60  8x8      .      16        .     .  Genoa 6400
= T  80x43  8x8   528x344   16        .   B800 C&T 82C450 BIOS
= G    .     .    640x480  64K        .   A000 Cirrus CL-GD 5422/5426
= G    .     .    800x600   16        .     .  MORSE VGA
= G    .     .    800x600   16        .     .  Cirrus 510/520 chipset
= G    .     .    800x600  ???        .     .  SAMPO-Mira VGA
= G    .     .   1024x768    4        .     .  Video7 V-RAM VGA
```

```
= G 128x48  8x16 1024x768  256       .   A000 ATI VGA Wonder Plus,ATI XL
= G 160x64  8x16 1280x1024  16/256K  .   A000 WD90C [1]
= G 160x64  8x16 1280x1024  16/256K  .   A000 Diamond Speedstar 24X [1]
65h = T  80x50  8x8   528x400   16        .   B800 C&T 82C450 BIOS
= G    .     .    800x600  64K       .   A000 Cirrus CL-GD 5422/5426
= G    .     .   1024x768   16       .     .  Video7 V-RAM VGA
= G 128x48  8x16 1024x768   16       .   A000 ATI VGA Wonder
66h = T  80x50  8x8   640x400   16/256K  .   B800 WD90C
= T  80x50  8x8      .      16       .   B800 Diamond Speedstar 24X
= G    .     .    640x400  256       .     .  Tatung VGA
= G    .     .    640x400  256       .     .  Video7 V-RAM VGA
= G    .     .    640x480  32K       .   A000 Cirrus CL-GD 5422/5426
67h = T  80x43  8x8   640x344   16/256K  .   B800 WD90C
= T  80x43  8x8      .      16       .   B800 Diamond Speedstar 24X
= G    .     .    640x480  256       .     .  Video7 V-RAM VGA
= G    .     .    800x600  32K       .   A000 Cirrus CL-GD 5422/5426
= G 128x48  8x16 1024x768    4       .   A000 ATI VGA Wonder
= G 160x64  8x16 1280x1024  16       .   A000 NCR 77C22 [1,9]
68h = G  80x25  8x16  640x400    .       .   A000 Diamond Stealth64 Video 2xx1
69h = T 132x50  8x8  1056x400   16/256K  .   B800 WD90C
= T 132x50  8x8      .      16       .   B800 Diamond Speedstar 24X
= G  80x30  8x16  640x480    .       .   A000 Diamond Stealth64 Video 2xx1
= G    .     .    720x540  256       .   A000 Video7 V-RAM VGA
6Ah = G    .     .    800x600   16       .   A000 VESA standard interface
= G 100x75  8x8   800x600   16       .   A000 Genoa 6400
= G 100x75  8x8   800x600   16       .   A000 Diamond Speedstar 24X
= G    .     .    800x600   16       .   A000 Ahead A
= G 100x75  8x8   800x600   16      1    A000 Ahead B (VESA) [see 71h]
= G    .     .    800x600   16       .     .  Zymos Poach, Hi Res 512
= G    .     .    800x600   16       .     .  Epson LT-386SX in CRT Mode
= G    .     .    800x600   16       .     .  Compuadd 316SL in CRT Mode
= G 100x37  8x16  800x600   16/256K  .   A000 Cirrus CL-GD5420/5422/5426
= G 100x37  8x16  800x600   16       .   A000 Diamond Stealth64 Video 2xx1
= G 100x42  8x14  800x600    .       .   A000 ATI VGA Wonder (undoc)
= G    .     .    800x600   16       .   A000 Chips&Technologies chipset
= G 160x64  8x16 1280x1024 256       .   A000 NCR 77C22 [1,9]
6Bh = T 100x37  8x16     .      16       .     .  Genoa 6400
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= T 100x37  8x16     .       .       .     .  NEL Electronics BIOS
= G 100x37  8x16  800x600    .       .   A000 Diamond Stealth64 Video 2xx1
6Ch = G  80x30  8x16  640x480   16M      .   A000 Trident 8900CL/BIOS C04
= G 100x75  8x8   800x600  256       .     .  Genoa 6400
= G 128x48  8x16 1024x768    2       .   A000 Diamond Stealth64 Video 2xx1
= G 160x60  8x16 1280x960   16/256K  .   A000 WD90C [1]
= G 160x60  8x16 1280x960   16/256K  .   A000 Diamond Speedstar 24X [1]
= G 160x64  8x16 1280x1024  16/256K  .   A000 Cirrus CL-GD 5422/5426 [1]
6Dh = G  80x25  8x14  640x350   64K      .   A000 STB Lightspeed ET4000/W32P
= G 128x48  8x16 1024x768    .       .   A000 Diamond Stealth64 Video 2xx1
= G 160x64  8x16 1280x1024 256/256K  .   A000 Cirrus CL-GD 5422/5426 [1]
6Eh = G  40x25  8x8   320x200   64K      .   A000 Cirrus CL-GD 5422/5426
= G 160x64  8x16 1280x1024   2       .   A000 Diamond Stealth64 Video 2xx1
6Fh = G  40x25  8x8   320x200   16M      .   A000 Cirrus CL-GD 5422/5426
= G 160x64  8x16 1280x1024   .       .   A000 Diamond Stealth64 Video 2xx1
70h =  extended mode set (see AX=0070h)       .  Everex Micro Enhancer EGA
= T  40x25  8x8      .      16       8   B800 Quadram (CGA double scan)
= T  40x25  8x8   (CGA dblscan)      .     .  Genoa SuperEGA BIOS 3.0+
= G    .     .    360x480  256       .     .  Cirrus 510/520/5320 chips
= G  90x28  8x14  720x392   16       1   A000 Ahead B
= G  80x30  8x16  640x480    .       .   A000 Diamond Stealth64 Video 2xx1
= G 100x38  8x16  800x600   16       .   A000 C&T chipset, Cardinal
= G    .     .   1024x480  256       .   A000 Trident 8900C BIOS C3.0
71h = T  80x25  8x8      .      16       8   B800 Quadram (CGA double scan)
= T  80x25  8x8   (CGA dblscan)      .     .  Genoa SuperEGA BIOS 3.0+
= G    .     .    528x400  256       .     .  Cirrus 510/520 chipset
= G  80x30  8x16  640x480   16M      .   A000 Cirrus CL-GD 5422/5426
= G  80x30  8x16  640x480    .       .   A000 Diamond Stealth64 Video 2xx1
= G 100x35  8x16  800x600   16/64    .   A000 NSI Smart EGA+
= G 100x75  8x8   800x600   16       1   A000 Ahead B (same as 6Ah)
= G    .     .    960x720   16       .     .  C&T chipset, Cardinal
= G    .     .   1024x480  256       .   A000 Trident 8900C BIOS C3.0
72h = T  80x60  8x8      .      16       .   B800 Quadram Ultra VGA
= T  80x60  8x8      .      16       .   B800 Genoa 6400
= T  80x60  8x8      .      16       .   B800 Genoa SuperEGA BIOS 3.0+
= G    .     .    528x480  256       .     .  Cirrus 510/520 chipset
= G  80x25  8x19  640x480   16       1   A000 DOS/V w/ any VGA
= G  80x30  8x16  640x480    .       .   A000 Diamond Stealth64 Video 2xx1
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```
= G    .     .    640x480  32K       .   A000 ATI
= G    .     .    640x480  16M       .   A000 WD90C
= G    .     .    640x480  16M       .   A000 Diamond Speedstar 24X
= G    .     .   1024x768   16       .     .  C&T chipset, Cardinal
= G 128x48  8x16 1024x768i  16       .   A000 C&T 82C450 BIOS
= G 128x48  8x16 1024x768   16       .   A000 C&T 65530 BIOS (multisync)
73h = G  80x60  8x8   640x480   16       .   A000 Quadram Ultra VGA
= G  80x60  8x8   640x480   16       .     .  Genoa 6400
= G  80x60  8x8   640x480   16       .     .  Genoa SuperEGA BIOS 3.0+
= G 100x37  8x16  800x600    .       .   A000 Diamond Stealth64 Video 2xx1
= T  80x25  8x19  640x475   16       1   none DOS/V, emulated in VGA graph
74h = T  80x66  8x8      .      16       .   B800 Quadram Ultra VGA
= T  80x66  8x8      .      16       .   B800 Genoa 6400
= T  80x66  8x8      .      16       .   B800 Genoa SuperEGA BIOS 3.0+
= G    .     .    640x400    2       .   B800 Toshiba 3100 AT&T mode
= G  80x30  8x16  640x480   32K      .   A000 Trident 8900C/BIOS C03
= G 100x37  8x16  800x600    .       .   A000 Diamond Stealth64 Video 2xx1
= G 128x48  8x16 1024x768   16       1   A000 Ahead A, Ahead B (512K)
= G    .     .   1024x768   64K      .   A000 Cirrus CL-GD 5422/5426 [1]
75h = G  80x30  8x16  640x480   64K      .   A000 Trident 8900C/BIOS C03
= G  80x66   .    640x528   16???    .   A000 Quadram Ultra VGA
= G  80x66   .    640x528   16       .     .  Genoa SuperEGA BIOS 3.0+
= G 100x37  8x16  800x600    .       .   A000 Diamond Stealth64 Video 2xx1
= G 128x48  8x16 1024x768    4       1   A000 Ahead B
= G 128x48  8x16 1024x768   16       .   A000 Chips&Technologies 64310
76h = T  94x29  8x14     .      16       .   B800 Quadram Ultra VGA
= T  94x29  8x14     .      .       .     .  Genoa SuperEGA BIOS 3.0+
= G 100x75  8x8   800x600   32K      .   A000 Trident 8900C/BIOS C03
= G 128x48  8x16 1024x768    2       1   A000 Ahead B
= G 128x48  8x16 1024x768    .       .   A000 Diamond Stealth64 Video 2xx1
= G 160x64  8x16 1280x1024  16       .   A000 Chips&Technologies 64310 [1]
77h = G  94x29   .    752x410   16???    .   A000 Quadram Ultra VGA
= G  94x29   .    752x410   16       .     .  Genoa SuperEGA BIOS 3.0+
= G 100x75  8x8   800x600   64K      .   A000 Trident 8900C/BIOS C03
= G 128x48  8x16 1024x768    .       .   A000 Diamond Stealth64 Video 2xx1
78h = T 100x37  8x16     .      16       .     .  Genoa 6400
= T 100x75  8x8      .      16       .   B800 Quadram Ultra VGA
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= T 100x75  8x8      .       .       .     .  Genoa SuperEGA BIOS 3.0+
= G    .     .    640x400  256       .     .  STB VGA/EM-16 Plus
= G  80x25  8x16  640x400  256       .     .  Cardinal, C&T chipset
= G    .     .    640x400  256       .     .  Cirrus 5320 chipset
= G  80x25  8x16  640x400  256       .   A000 Chips&Technologies 64310
79h = G  80x30  8x16  640x480  256       .     .  Cardinal, C&T chipset
= G  80x30  8x16  640x480  256       .   A000 Chips&Technologies 64310
= G 100x75   .    800x600   16???    .   A000 Quadram Ultra VGA
= G 100x75  8x8   800x600   16       .     .  Genoa SuperEGA BIOS 3.0+
= G 100x75  8x8   800x600   16       .     .  Genoa 6400
7Ah = T 114x60  8x8      .      16       .   B800 Quadram Ultra VGA
= T 114x60  8x8      .       .       .     .  Genoa SuperEGA BIOS 3.0+
= G    .     .    720x540  256       .     .  C&T chipset, Cardinal
7Bh = G    .     .    800x600  256       .     .  C&T chipset, Cardinal
= G 114x60   .    912x480   16???    .   A000 Quadram Ultra VGA
= G    .     .    912x480   16       .     .  Genoa SuperEGA BIOS 3.0+
7Ch = G    .     .    512x512   16       .     .  Genoa
= G 100x37  8x16  800x600  256       .     .  C&T 82C453/F65530 chipsets
= G 100x37  8x16  800x600  256       .   A000 Chips&Technologies 64310
= G 200x75  8x16 1600x1200   . [16]  .   A000 Diamond Stealth64 Video 2xx1
7Dh = G  64x32  8x16  512x512  256       .     .  Genoa
7Eh =  special mode set (see AX=007Eh)          .  Paradise VGA, AT&T VDC600
= G  80x25  8x16  640x400  256       .     .  Genoa 6400
= G    .     .   1024x768  256       .     .  C&T 82C453 chipset
= G 128x48  8x16 1024x768  256       .   A000 Chips&Technologies 64310
= G  90x43   .       .     mono      .   B000 HERCULES.COM on HGC [14]
7Fh =  special function set (see AX=007Fh/BH=00h) Paradise VGA, AT&T VDC600
= G 128x48  8x16 1024x768    4       .     .  Genoa 6400
= G  90x29   .       .     mono      .   B000 HERCULES.COM on HGC [14]
82h = T  80x25   .       .     B&W       .     .  AT&T VDC overlay mode [6]
83h = T  80x25   .       .       .       .     .  AT&T VDC overlay mode [6]
86h = G    .     .    640x200  B&W       .     .  AT&T VDC overlay mode [6]
88h = G  90x43  8x8   720x348  mono      .   B000 Hercules + MSHERC.COM
C0h = G    .     .    640x400  2/prog palette  .  AT&T VDC overlay mode [6]
= G    .     .    640x400  2/prog palette  .  Olivetti Quaderno overlay
C4h =  disable output    .       .       .     .  AT&T VDC overlay mode [6]
C8h = G  80x50  8x8   640x400    2       .   B800 Olivetti Quaderno overlay
D0h = G    .     .    640x400    2       .   B800 DEC VAXmate AT&T mode
```

Notes:
[1] interlaced only
[2] for ATI EGA Wonder, mode 08h is only valid if SMS.COM is loaded resident.
SMS maps mode 08h to mode 27h if the byte at location 0040:0063 is 0B4h,
otherwise to mode 23h, thus selecting the appropriate (monochrome or
color) 132x25 character mode.
for ATI VGA Wonder, mode 08h is the same, and only valid if VCONFIG loaded
resident
[3] early XGA boards support 132-column text but do not have this BIOS mode
[4] DESQview intercepts calls to change into these two modes (21h is page 0,
22h is page 1) even if there is no Hercules graphics board installed
[5] ATI BIOS v4-1.00 has a text-scrolling bug in this mode
[6] for AT&T VDC overlay modes, BL contains the DEB mode, which may be 06h,
40h, or 44h
[7] BIOS text support is broken in this undocumented mode; scrolling moves
only about 1/3 of the screen (and does even that portion incorrectly),
while screen clears only clear about 3/4.
[8] The Oak OTI-037/067/077 modes are present in the Oak VGA BIOS, which OEMs
may choose to use only partially or not at all; thus, not all Oak boards
support all "Oak" modes listed here
[9] this card uses the full 128K A000h-BFFFh range for the video buffer,
precluding the use of a monochrome adapter in the same system
[10] mode 17h supported by Tseng ET4000 BIOS 8.01X dated 1990/09/14, but not
v8.01X dated 1992/02/28; mode 21h supported by 1992/02/28 version but not
1990/09/14 version
[11] HERKULES simulates a 90x45 text mode in Hercules graphics mode; the
installation check for HERKULES.COM is the signature "Herkules" two
bytes beyond the INT 10 handler
[12] The Realtek RTVGA BIOS v3.C10 crashes when attempting to switch into
modes 21h or 27h; this version of the BIOS also sets the BIOS data area
incorrectly for extended text modes, resulting in scrolling after only
24 lines (the VMODE.EXE utility does set the data area correctly)
[13] The Tandy 1000SL/TL BIOS does not actually support this mode
[14] HERCULES.COM is a graphics-mode BIOS extension for Hercules-compatible
graphics cards by Soft Warehouse, Inc. Its installation check is to
test whether the word preceding the INT 10 handler is 4137h.
[15] The Hercules-graphics video modes for HERCBIOS (shareware by Dave

Tutelman) may be changed by a command-line switch; the 90x43
character-cell mode's number is always one higher than the 90x29 mode
(whose default is mode 08h)
[16] Stealth64 Video 2001-series BIOS v1.03 reports 76 lines for mode 7Ch,
resulting in incorrect scrolling for TTY output (scrolling occurs only
after the end of the 76th line, which is not displayed)
[17] For 43-line text on EGA or 43/50-line text on VGA, you must load an 8x8
font using AX=1102h after switching to mode 3; VGA may also require
using INT 10/AH=12h/BL=30h

See Also: #00011 - #00083 - #00191

Index:
Video modes

Index:
Installation check;HERKULES|installation check;HERCULES.COM

Category: Video - Int 10h - V


Interrups | Categories | Contents






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