

CMOS RAM Map

CMOS registers can be divided into four groups:

- 00h-0Fh Real-Time Clock data
- 10h-2Fh ISA configuration data
- 30h-3Fh BIOS specific configuration data
- 40h-7Fh Extended CMOS RAM

Reg.	BIOS	Description																																								
00h		Date/Time – Seconds (R/W) The value used is in BCD format or binary format, depending on the setting of register 0Bh, bit 2. Bit 7 is read-only.																																								
01h		Date/Time – Seconds alarm (R/W) The value used is in BCD format or binary format, depending on the setting of register 0Bh, bit 2.																																								
02h		Date/Time – Minutes (R/W) The value used is in BCD format or binary format, depending on the setting of register 0Bh, bit 2.																																								
03h		Date/Time – Minutes alarm (R/W) The value used is in BCD format or binary format, depending on the setting of register 0Bh, bit 2.																																								
04h		Date/Time – Hours (R/W) The value used is in BCD format or binary format, depending on the setting of register 0Bh, bit 2.																																								
05h		Date/Time – Hours alarm (R/W) The value used is in BCD format or binary format, depending on the setting of register 0Bh, bit 2.																																								
06h		Date/Time – Day of the week (R/W) Values 1 thru 7 indicate Sunday thru Saturday resp.																																								
07h		Date/Time – Day of the month (R/W) The value used is in BCD format or binary format, depending on the setting of register 0Bh, bit 2.																																								
08h		Date/Time – Month (R/W) The value used is in BCD format or binary format, depending on the setting of register 0Bh, bit 2.																																								
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0Ah		<div>Status Register A (R/W)<table><tr><td>Bit 7</td><td>Update in progress</td></tr><tr><td></td><td>1/0 = yes/no</td></tr><tr><td>Bit 6-4</td><td>Divider control</td></tr><tr><td></td><td>000 = divide clock by 128 over normal</td></tr><tr><td></td><td>010 = normal (32.768 kHz)</td></tr><tr><td></td><td>011 = divide clock by 32 over normal</td></tr><tr><td>Bit 3-0</td><td>Rate selection divided control</td></tr><tr><td></td><td>0000 = no periodic rate interrupt generated</td></tr><tr><td></td><td>0001 = 3.90625 ms</td></tr><tr><td></td><td>0010 = 7.8125 ms</td></tr><tr><td></td><td>0011 = .122070 ms</td></tr><tr><td></td><td>0100 = .244141 ms</td></tr><tr><td></td><td>0101 = .488281 ms</td></tr><tr><td></td><td>0110 = .976562 ms (default)</td></tr><tr><td></td><td>0111 = 1.953125 ms</td></tr><tr><td></td><td>1000 = 3.90625 ms</td></tr><tr><td></td><td>1001 = 7.8125 ms</td></tr><tr><td></td><td>1010 = 15.625 ms</td></tr><tr><td></td><td>1011 = 31.25 ms</td></tr><tr><td></td><td>1100 = 62.5 ms</td></tr></table></div>	Bit 7	Update in progress		1/0 = yes/no	Bit 6-4	Divider control		000 = divide clock by 128 over normal		010 = normal (32.768 kHz)		011 = divide clock by 32 over normal	Bit 3-0	Rate selection divided control		0000 = no periodic rate interrupt generated		0001 = 3.90625 ms		0010 = 7.8125 ms		0011 = .122070 ms		0100 = .244141 ms		0101 = .488281 ms		0110 = .976562 ms (default)		0111 = 1.953125 ms		1000 = 3.90625 ms		1001 = 7.8125 ms		1010 = 15.625 ms		1011 = 31.25 ms		1100 = 62.5 ms
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AMI BIOS	Extended Setup options		
	Bit 7	1 = mouse enabled	
	Bit 6	1 = test memory above 1 MB	
	Bit 5	1 = generate tick sound during memory test	
	Bit 4	1 = memory parity check enabled	
	Bit 3	1 = display key to use for setup during boot	
	Bit 2	Location for user-defined hard disk data	
		0 = 0000:0300h	
		1 = at the top of conventional memory	
	Bit 1	1 = wait for F1 on any error during boot	
	Bit 0	NumLock state	
		0/1 = off/on	
AMI WinBIOS	Boot options		
	Bit 7	1 = boot with high CPU speed	
	Bit 6	1 = test memory above 1 MB	
	Bit 5	1 = generate tick sound during memory test	
	Bit 4	1 = floppy seek	
	Bit 3	1 = display key to use for setup during boot	
	Bit 2	Location for used-defined hard disk data	
		0 = 0000:0300h	
		1 = at the top of conventional memory	
	Bit 1	1 = wait for F1 on any error during boot	
	Bit 0	NumLock state	
		0/1 = off/on	
Award BIOS	Configuration byte		
	Bit 7	NumLock state	
		0/1 = off/on	
	Bit 6	IDE block mode	
		0/1 = disabled/enabled	
	Bit 5	(unknown)	
	Bit 4	Shadow-RAM CC00-CFFFh	
		0/1 = disabled/enabled	
	Bit 3	Shadow-RAM C800-CBFFh	
		0/1 = disabled/enabled	
	Bit 2	(unknown)	
	Bit 1	BIOS password	
		0/1 = disabled/enabled	
	Bit 0	Password configuration	
		0 = setup only	
		1 = setup and system	
Quadtel HT12	Configuration byte		
	Bit 7	640 KB RAM	
		0/1 = not present/present	
	Bit 6	extended type, CPU status word	
	Bit 5	(unknown)	
	Bit 4	(unknown)	

		<table><tr><td>Bit 3-2</td><td>NumLock state</td></tr><tr><td></td><td>00 = automatic</td></tr><tr><td></td><td>01 = on</td></tr><tr><td></td><td>10 = off</td></tr><tr><td>Bit 1</td><td>(unknown)</td></tr><tr><td>Bit 0</td><td>384 KB RAM moved to top of memory</td></tr></table>	Bit 3-2	NumLock state		00 = automatic		01 = on		10 = off	Bit 1	(unknown)	Bit 0	384 KB RAM moved to top of memory												
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	PS/2	Hard disk drive type, drive 1																								
13h		<table><tr><td colspan="2">Typematic programming</td></tr><tr><td>Bit 7</td><td>Typematic programming</td></tr><tr><td></td><td>0/1 = disabled/enabled</td></tr><tr><td>Bit 6-5</td><td>Delay</td></tr><tr><td></td><td>00 = 250 ms</td></tr><tr><td></td><td>01 = 500 ms</td></tr><tr><td></td><td>10 = 750 ms</td></tr><tr><td></td><td>11 = 1000 ms</td></tr><tr><td>Bit 4-2</td><td>Repeat rate</td></tr><tr><td></td><td>000-111 = 6-30 characters per second</td></tr><tr><td>Bit 1-0</td><td>(reserved)</td></tr></table>	Typematic programming		Bit 7	Typematic programming		0/1 = disabled/enabled	Bit 6-5	Delay		00 = 250 ms		01 = 500 ms		10 = 750 ms		11 = 1000 ms	Bit 4-2	Repeat rate		000-111 = 6-30 characters per second	Bit 1-0	(reserved)		
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	AMI Hi-Flex BIOS	<table><tr><td colspan="2">Extended Setup options</td></tr><tr><td>Bit 7</td><td>1 = mouse enabled</td></tr><tr><td>Bit 6</td><td>1 = test memory above 1 MB</td></tr><tr><td>Bit 5</td><td>1 = generate tick sound during memory test</td></tr><tr><td>Bit 4</td><td>1 = memory parity check enabled</td></tr><tr><td>Bit 3</td><td>1 = display key to use for setup during boot</td></tr><tr><td>Bit 2</td><td>Location for user-defined hard disk data</td></tr><tr><td></td><td>0 = 0000:0300h</td></tr><tr><td></td><td>1 = at the top of conventional memory</td></tr><tr><td>Bit 1</td><td>1 = wait for F1 on any error during boot</td></tr><tr><td>Bit 0</td><td>NumLock state</td></tr><tr><td></td><td>0/1 = off/on</td></tr></table>	Extended Setup options		Bit 7	1 = mouse enabled	Bit 6	1 = test memory above 1 MB	Bit 5	1 = generate tick sound during memory test	Bit 4	1 = memory parity check enabled	Bit 3	1 = display key to use for setup during boot	Bit 2	Location for user-defined hard disk data		0 = 0000:0300h		1 = at the top of conventional memory	Bit 1	1 = wait for F1 on any error during boot	Bit 0	NumLock state		0/1 = off/on
Extended Setup options																										
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	0/1 = off/on																									
	AMI WinBIOS	<table><tr><td colspan="2">Peripheral settings</td></tr><tr><td>Bit 7-5</td><td>Keyboard repeat rate</td></tr><tr><td></td><td>000-111 = 6-30 characters per second</td></tr><tr><td>Bit 4</td><td>Coprocessor test</td></tr><tr><td></td><td>0/1 = disabled/enabled</td></tr><tr><td>Bit 3-0</td><td>(unknown)</td></tr></table>	Peripheral settings		Bit 7-5	Keyboard repeat rate		000-111 = 6-30 characters per second	Bit 4	Coprocessor test		0/1 = disabled/enabled	Bit 3-0	(unknown)												
Peripheral settings																										
Bit 7-5	Keyboard repeat rate																									
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	0/1 = disabled/enabled																									
Bit 3-0	(unknown)																									
	PS/2 MCA	<table><tr><td colspan="2">Internal POST operation</td></tr><tr><td>Bit 7</td><td>1 = POST sets VGA pixel information</td></tr><tr><td>Bit 6</td><td>1 = RTC battery is OK</td></tr><tr><td>Bit 5</td><td>1 = go to ROM BASIC from POST</td></tr><tr><td>Bit 4</td><td>POST sets the typematic rate</td></tr><tr><td></td><td>0 = 10.9 cps with a 500 ms delay</td></tr></table>	Internal POST operation		Bit 7	1 = POST sets VGA pixel information	Bit 6	1 = RTC battery is OK	Bit 5	1 = go to ROM BASIC from POST	Bit 4	POST sets the typematic rate		0 = 10.9 cps with a 500 ms delay												
Internal POST operation																										
Bit 7	1 = POST sets VGA pixel information																									
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Bit 5	1 = go to ROM BASIC from POST																									
Bit 4	POST sets the typematic rate																									
	0 = 10.9 cps with a 500 ms delay																									

		1 = 30 cps with a 250 ms delay	
	Bit 3-2	(unknown or not used)	
	Bit 1	1 = network password installed	
	Bit 0	1 = power-on password installed	
Award BIOS	Configuration byte		
	Bit 7	Typematic programming	
		0/1 = disabled/enabled	
	Bit 6-4	Repeat rate	
		000-111 = 6-30 cps	
	Bit 3-2	Delay	
		00-11 = 250, 500, 750, 1000 ms	
	Bit 1	(unknown)	
	Bit 0	1 = floppy seek	
14h	Equipment byte		
	Bit 7-6	Number of floppy drives	
		00 = no floppy drives	
		01 = 1 floppy drive	
		10 = 2 floppy drives	
	Bit 5-4	Primary video display	
		00 = video adapter with ROM	
		01 = 40 columns by 25 rows, color	
		10 = 80 columns by 25 rows, color	
		11 = 80 columns by 25 rows, monochrome	
	Bit 3	(not used)	
	Bit 2	(not used)	
	Bit 1	1 = coprocessor installed	
	Bit 0	1 = diskette drive installed for boot	
	AMI BIOS	Bit 3 0 = ignore POST keyboard tests	
		1 = test keyboard	
15h		Base memory (LSB)	
16h		Base memory (MSB)	
17h		Extended memory (LSB)	
18h		Extended memory (MSB)	
19h		Hard disk drive type, drive 0 (extended type)	
	00-0Fh	(reserved)	
	10-2Eh	type 16-46 of the parameter table	
	MCA	Card ID of the adapter in slot 0	
1Ah		Hard disk drive type, drive 1 (extended type)	
		00-0Fh	(reserved)
		10-2Eh	type 16-46 of the parameter table
	MCA	Card ID of the adapter in slot 0	
1Bh	AMI BIOS	Number of cylinders for user-defined hard disk drive 0 (LSB)	
	MCA	Card ID of the adapter in slot 1	
	Phoenix BIOS	82335 RC1 Roll-Compare register (LSB)	
	Award BIOS	Configuration byte	
		Bit 7-4	(unknown)

		<table><tr><td>Bit 3</td><td>Shadow-RAM DC00-DFFFh</td></tr><tr><td>Bit 2</td><td>Shadow-RAM D800-DBFFh</td></tr><tr><td>Bit 1</td><td>Shadow-RAM D400-D7FFh</td></tr><tr><td>Bit 0</td><td>Shadow-RAM D000-D3FFh</td></tr><tr><td></td><td>0/1 = disabled/enabled</td></tr></table>	Bit 3	Shadow-RAM DC00-DFFFh	Bit 2	Shadow-RAM D800-DBFFh	Bit 1	Shadow-RAM D400-D7FFh	Bit 0	Shadow-RAM D000-D3FFh		0/1 = disabled/enabled				
Bit 3	Shadow-RAM DC00-DFFFh															
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Bit 1	Shadow-RAM D400-D7FFh															
Bit 0	Shadow-RAM D000-D3FFh															
	0/1 = disabled/enabled															
1Ch	AMI BIOS	Number of cylinders for user-defined hard disk drive 0 (MSB)														
	MCA	Card ID of the adapter in slot 1														
	Phoenix BIOS	82335 RC1 Roll-Compare register (MSB)														
	Award BIOS	First part of the checksum of the password														
1Dh	AMI BIOS	Number of heads for user-defined hard disk drive 0														
	MCA	Card ID of the adapter in slot 2														
	Phoenix BIOS	82335 RC1 Roll-Compare register (LSB)														
	Award BIOS	Second part of the checksum of the password														
1Eh	AMI BIOS	Write-precompensation cylinder for user-defined hard disk drive 0 (LSB)														
	MCA	Card ID of the adapter in slot 2														
	Phoenix BIOS	82335 RC2 Roll-Compare register (MSB)														
	Award BIOS	Number of cylinders for user-defined hard disk drive 1 (LSB)														
	Quadtel HT12	<table><tr><td colspan="3">User-defined hard disk drive 0</td></tr><tr><td>Bit 7</td><td>4</td><td>Number of heads</td></tr><tr><td>Bit 3</td><td>0</td><td>Number of cylinders (MSB)</td></tr></table>	User-defined hard disk drive 0			Bit 7	4	Number of heads	Bit 3	0	Number of cylinders (MSB)					
User-defined hard disk drive 0																
Bit 7	4	Number of heads														
Bit 3	0	Number of cylinders (MSB)														
1Fh	AMI BIOS	Write-precompensation cylinder for user-defined hard disk drive 0 (MSB)														
	MCA	Card ID of the adapter in slot 3														
	Award BIOS	Number of cylinders for user-defined hard disk drive 1 (MSB)														
	Quadtel HT12	Write-precompensation cylinder for user-defined hard disk drive 0 (LSB)														
20h	AMI BIOS	<table><tr><td colspan="2">Control byte for user-defined hard disk drive 0</td></tr><tr><td>Bit 7</td><td>1 = no retries</td></tr><tr><td>Bit 6</td><td>1 = no retries</td></tr><tr><td>Bit 5</td><td>1 = bad map located at last cylinder + 1</td></tr><tr><td>Bit 4</td><td>(not used)</td></tr><tr><td>Bit 3</td><td>1 = number of heads greater than 8</td></tr><tr><td>Bit 2-0</td><td>(not used)</td></tr></table>	Control byte for user-defined hard disk drive 0		Bit 7	1 = no retries	Bit 6	1 = no retries	Bit 5	1 = bad map located at last cylinder + 1	Bit 4	(not used)	Bit 3	1 = number of heads greater than 8	Bit 2-0	(not used)
Control byte for user-defined hard disk drive 0																
Bit 7	1 = no retries															
Bit 6	1 = no retries															
Bit 5	1 = bad map located at last cylinder + 1															
Bit 4	(not used)															
Bit 3	1 = number of heads greater than 8															
Bit 2-0	(not used)															
	MCA	Card ID of the adapter in slot 3														
	AMI WinBIOS	Landing zone for user-defined hard disk drive 0 (LSB)														
	Phoenix BIOS	Number of cylinders for user-defined hard disk drive 0 (LSB)														
	Award BIOS	Number of heads for user-defined hard disk drive 1														
	Quadtel	User-defined hard disk drive 0														

	HT12	Bit 7-4	Landing zone (MSB)
		Bit 3-0	Write-precompensation cylinder (MSB)
21h	AMI BIOS	Parking cylinder for user-defined hard disk drive 0 (LSB)	
	MCA	Programmable configuration byte 2	
	AMI WinBIOS	Landing zone for user-defined hard disk drive 0 (LSB)	
	Phoenix BIOS	Number of cylinders for user-defined hard disk drive 0 (MSB)	
	Award BIOS	Write-precompensation cylinder for user-defined hard disk drive 1 (LSB)	
	Quadtel HT12	Landing zone for user-defined hard disk drive 0 (LSB)	
22h	AMI BIOS	Parking cylinder for user-defined hard disk drive 0 (MSB)	
	MCA	Programmable configuration byte 3	
	AMI WinBIOS	Number of sectors for user-defined hard disk drive 0	
	Phoenix BIOS	Number of heads for user-defined hard disk drive 0	
	Award BIOS	Write-precompensation cylinder for user-defined hard disk drive 1 (MSB)	
	Quadtel HT12	Number of sectors for user-defined hard disk drive 0	
23h	AMI BIOS	Number of sectors for user-defined hard disk drive 0	
	MCA	Programmable configuration byte 4	
	AMI WinBIOS	Number of cylinders for user-defined hard disk drive 1 (LSB)	
	Phoenix BIOS	Write-precompensation cylinder for user defined hard disk drive 1 (LSB)	
	Award BIOS	Landing zone for user defined hard disk drive 1 (LSB)	
	Quadtel HT12	Number of cylinders for user-defined hard disk drive 1 (LSB)	
24h	AMI BIOS	Number of cylinders for user-defined hard disk drive 1 (LSB)	
	MCA	Programmable configuration byte 5	
	AMI WinBIOS	Number of cylinders for user-defined hard disk drive 1 (MSB)	
	Phoenix BIOS	Write-precompensation cylinder for user-defined hard disk drive 0 (MSB)	
	Award BIOS	Landing zone for user-defined hard disk drive 1 (MSB)	
	Quadtel HT12	User-defined hard disk drive 1	
25h	AMI BIOS	Number of cylinders for user-defined hard disk drive 1 (MSB)	
	AMI WinBIOS	Number of heads for user-defined hard disk drive 1	
	Phoenix BIOS	Landing zone for user-defined hard disk drive 0 (LSB)	

	Award BIOS	Number of sectors for user-defined hard disk drive 1													
	Quadtel HT12	Write-precompensation cylinder for user-defined hard disk drive 1 (LSB)													
26h	AMI BIOS	Number of heads for user-defined hard disk drive 1													
	Phoenix BIOS	Landing zone for user-defined hard disk drive 0 (MSB)													
	Award BIOS	Number of cylinders for user-defined hard disk drive 0 (LSB)													
	Quadtel HT12	User-defined hard disk drive 1													
27h	AMI BIOS	Write-precompensation cylinder for user-defined hard disk drive 1 (LSB)													
	AMI WinBIOS	Write-precompensation cylinder user-defined hard disk drive 1 (MSB)													
	Phoenix BIOS	Number of sectors for user-defined hard disk drive 0													
	Award BIOS	Number of cylinders for user-defined hard disk drive 0 (MSB)													
	Quadtel HT12	Landing zone for user-defined hard disk drive 1 (LSB)													
	28h	AMI BIOS	Write-precompensation cylinder for user-defined hard disk drive 1 (MSB)												
	AMI WinBIOS	Landing zone for user-defined hard disk drive 1 (LSB)													
	HP Vectra	Checksum for bytes 29-2Dh													
	Award	Number of heads for user-defined hard disk drive 0													
	Quadtel HT12	Number of sectors for user-defined hard disk drive 1													
	29h	AMI BIOS	Control byte for user-defined hard disk drive 1 <table><tr><td>Bit 7</td><td>1 = no retries</td></tr><tr><td>Bit 6</td><td>1 = no retries</td></tr><tr><td>Bit 5</td><td>1 = bap map at last cylinder + 1</td></tr><tr><td>Bit 4</td><td>(not used)</td></tr><tr><td>Bit 3</td><td>1 = number of heads greater than 8</td></tr><tr><td>Bit 2-0</td><td>(not used)</td></tr></table>		Bit 7	1 = no retries	Bit 6	1 = no retries	Bit 5	1 = bap map at last cylinder + 1	Bit 4	(not used)	Bit 3	1 = number of heads greater than 8	Bit 2-0
Bit 7	1 = no retries														
Bit 6	1 = no retries														
Bit 5	1 = bap map at last cylinder + 1														
Bit 4	(not used)														
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Bit 2-0	(not used)														
	AMI WinBIOS	Landing zone for user-defined hard disk drive 1													
	Phoenix BIOS	82335 CC0 Compare register (LSB)													
	Award BIOS	Write-precompensation cylinder for user-defined hard disk drive 0 (LSB)													
	HP Vectra	CMOS_HPCONFIG <table><tr><td>Bit 7</td><td>1 = byte 2Ch in checksum</td></tr><tr><td>Bit 6</td><td>1 = secondary video adapter set to primary</td></tr><tr><td>Bit 5-1</td><td>(reserved)</td></tr><tr><td>Bit 0</td><td>Manufacturing test enable</td></tr><tr><td></td><td>0/1 = disable/enable</td></tr></table>		Bit 7	1 = byte 2Ch in checksum	Bit 6	1 = secondary video adapter set to primary	Bit 5-1	(reserved)	Bit 0	Manufacturing test enable		0/1 = disable/enable		
	Bit 7	1 = byte 2Ch in checksum													
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Bit 0	Manufacturing test enable														
	0/1 = disable/enable														
2Ah	AMI BIOS	Parking cylinder for user-defined hard disk drive 1 (LSB)													

	AMI WinBIOS	Number of sectors for user-defined hard disk drive 1	
	HP Vectra	(reserved)	
	Phoenix BIOS	82335 CC0 Compare register (MSB)	
	Award BIOS	Write-precompensation cylinder for user-defined hard disk drive 0 (MSB)	
2Bh	AMI BIOS	Parking cylinder for user-defined hard disk drive 1 (MSB)	
	AMI WinBIOS	IDE and Shadow control	
		Bit 7	LBA mode
			0/1 = disabled/enabled
		Bit 6	IDE Block mode
			0/1 = disabled/enabled
		Bit 5	32-bit transfer mode
			0/1 = disabled/enabled
		Bit 4	(not used)
		Bit 3	Shadow-RAM DC00-DFFFh
			0/1 = disabled/enabled
		Bit 2	Shadow-RAM D800-DBFFh
			0/1 = disabled/enabled
		Bit 1	Shadow-RAM D400-D7FFh
			0/1 = disabled/enabled
		Bit 0	Shadow-RAM D000-D3FFh
			0/1 = disabled/enabled
	HP Vectra	(reserved)	
	Phoenix BIOS	82335 CC1 Compare register (LSB)	
	Award BIOS	Landing zone for user-defined hard disk drive 0 (LSB)	
2Ch	AMI BIOS	Number of sectors for user-defined hard disk drive 1	
	AMI WinBIOS	Cache and Shadow control	
		Bit 7	External cache
			0/1 = disabled/enabled
		Bit 6	Internal cache
			0/1 = disabled/enabled
		Bit 5	Shadow-RAM E000-EFFFh
			0/1 = disabled/enabled
		Bit 4	Shadow-RAM CC00-CFFFh
			0/1 = disabled/enabled
		Bit 3	Shadow-RAM C800-CBFFh
			0/1 = disabled/enabled
		Bit 2	Shadow-RAM C400-C7FFh
			0/1 = disabled/enabled
		Bit 1	Shadow-RAM C000-C3FFh
			0/1 = disabled/enabled
		Bit 0	Shadow-RAM F000-FFFFh

		0/1 = disabled/enabled	
HP Vectra	(reserved)		
Compaq	NumLock control		
	Bit 6	NumLock state	
		0/1 = off/on	
Phoenix BIOS	82335 CC1 Compare register (MSB)		
Award BIOS	Landing zone for user-defined hard disk type 0 (MSB)		
2Dh	AMI Hi-Flex BIOS	Configuration byte	
		Bit 7	1 = Weitek coprocessor installed
		Bit 6	1 = floppy seek at boot
		Bit 5	Boot sequence
			0 = C:, A:
			1 = A:, C:
		Bit 4	Boot speed
			0/1 = low/high
		Bit 3	1 = external cache enabled
		Bit 2	1 = internal cache enabled
		Bit 1	1 = Fast Gate-A20 enabled
		Bit 0	Turbo-switch
			0/1 = off/on
			AMI WinBIOS
Bit 7	1 = Weitek coprocessor installed		
Bit 6	1 = Bootsector virusprotection enabled		
Bit 5	1 = mouse enabled		
Bit 4	Password protection		
	0/1 = setup/allways		
Bit 3	1 = parity checking enabled		
Bit 2-1	Boot sequence		
	00 = C:, A:		
	01 = A:, C:		
	Bit 0		Turbo-switch
			0/1 = off/on
HP Vectra	(reserved)		
Award	Number of sectors for user-defined hard disk drive 0		
2Eh		CMOS checksum for register 10-2Dh (LSB)	
2Fh		CMOS checksum for register 10-2Dh (MSB)	
30h		Extended memory in KB (LSB)	
31h		Extended memory in KB (MSB)	
32h		Century byte (in BCD format)	
	MCA	CMOS checksum for register 10-31h (LSB)	
33h		Information flags	
		Bit 7	Base memory
			0 = 512 KB
			1 = 640 KB

		<table><tr><td>Bit 6</td><td>1 = display user message in setup</td></tr><tr><td>Bit 5-0</td><td>(not used)</td></tr></table>	Bit 6	1 = display user message in setup	Bit 5-0	(not used)																														
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	MCA	CMOS checksum for register 10-31h (MSB)																																		
	Phoenix BIOS	CPU register CR0 Bit 4 Bit 4 of CR0																																		
	AMI WinBIOS	<table><tr><td colspan="2">Information flags</td></tr><tr><td>Bit 7</td><td>1 = upper 128 KB memory present</td></tr><tr><td>Bit 6-4</td><td>Internal CPU clock frequency</td></tr><tr><td></td><td>000 = 25 MHz</td></tr><tr><td></td><td>001 = 33 MHz</td></tr><tr><td></td><td>010 = 40 MHz</td></tr><tr><td></td><td>011 = 50 MHz</td></tr><tr><td></td><td>100 = 60/66 MHz</td></tr><tr><td></td><td>101 = 75 MHz</td></tr><tr><td></td><td>110 = 80 MHz</td></tr><tr><td></td><td>111 = 90/100 MHz</td></tr><tr><td>Bit 2-1</td><td>CPU multiplier</td></tr><tr><td></td><td>00 = 1x</td></tr><tr><td></td><td>01 = 2x</td></tr><tr><td></td><td>10 = 3x</td></tr><tr><td></td><td>11 = 4x</td></tr><tr><td>Bit 0</td><td>1 = FlashROM programming activated</td></tr></table>	Information flags		Bit 7	1 = upper 128 KB memory present	Bit 6-4	Internal CPU clock frequency		000 = 25 MHz		001 = 33 MHz		010 = 40 MHz		011 = 50 MHz		100 = 60/66 MHz		101 = 75 MHz		110 = 80 MHz		111 = 90/100 MHz	Bit 2-1	CPU multiplier		00 = 1x		01 = 2x		10 = 3x		11 = 4x	Bit 0	1 = FlashROM programming activated
Information flags																																				
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	101 = 75 MHz																																			
	110 = 80 MHz																																			
	111 = 90/100 MHz																																			
Bit 2-1	CPU multiplier																																			
	00 = 1x																																			
	01 = 2x																																			
	10 = 3x																																			
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Bit 0	1 = FlashROM programming activated																																			
	Quadtel HT12	<table><tr><td colspan="2">Information flags</td></tr><tr><td>Bit 7</td><td>1 = 640 KB RAM present</td></tr><tr><td>Bit 6</td><td>Extension type (CPU Machine Status Word)</td></tr><tr><td>Bit 5-2</td><td>(unknown)</td></tr><tr><td>Bit 1</td><td>1 = show welcome message</td></tr><tr><td>Bit 0</td><td>(unknown)</td></tr></table>	Information flags		Bit 7	1 = 640 KB RAM present	Bit 6	Extension type (CPU Machine Status Word)	Bit 5-2	(unknown)	Bit 1	1 = show welcome message	Bit 0	(unknown)																						
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	AMI BIOS 121291	<table><tr><td colspan="2">Information flags</td></tr><tr><td>Bit 7</td><td>1 = 640 KB RAM present</td></tr><tr><td>Bit 6</td><td>(not used/unknown)</td></tr><tr><td>Bit 5-4</td><td>Slow RAM refresh option</td></tr><tr><td></td><td>00 = 15 μs</td></tr><tr><td></td><td>01 = 30 μs</td></tr><tr><td></td><td>10 = 60 μs</td></tr><tr><td></td><td>11 = 120 μs</td></tr><tr><td>Bit 3</td><td>1 = system BIOS cacheable enabled</td></tr><tr><td>Bit 2</td><td>1 = video BIOS cacheable enabled</td></tr><tr><td>Bit 1-0</td><td>(not used/unknown)</td></tr></table>	Information flags		Bit 7	1 = 640 KB RAM present	Bit 6	(not used/unknown)	Bit 5-4	Slow RAM refresh option		00 = 15 μs		01 = 30 μs		10 = 60 μs		11 = 120 μs	Bit 3	1 = system BIOS cacheable enabled	Bit 2	1 = video BIOS cacheable enabled	Bit 1-0	(not used/unknown)												
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	AMI BIOS 060692	<table><tr><td colspan="2">Information flags</td></tr><tr><td>Bit 7</td><td>1 = 640 KB RAM present</td></tr><tr><td>Bit 6</td><td>(not used/unknown)</td></tr><tr><td>Bit 5</td><td>DRAM write CAS pulse</td></tr><tr><td></td><td>0 = 1T (20/25 MHz)</td></tr><tr><td></td><td>1 = 2T (33-50 MHz)</td></tr><tr><td>Bit 4</td><td>(not used/unknown)</td></tr><tr><td>Bit 3</td><td>1 = automatic configuration enabled</td></tr><tr><td>Bit 2-0</td><td>(not used/unknown)</td></tr></table>	Information flags		Bit 7	1 = 640 KB RAM present	Bit 6	(not used/unknown)	Bit 5	DRAM write CAS pulse		0 = 1T (20/25 MHz)		1 = 2T (33-50 MHz)	Bit 4	(not used/unknown)	Bit 3	1 = automatic configuration enabled	Bit 2-0	(not used/unknown)																
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Bit 2-0	(not used/unknown)																																			

34h	AMI BIOS	Information flags	
		Bit 7	1 = boot sector virus protection enabled
		Bit 6	1 = password required at boot
		Bit 5	Shadow-RAM C800-CBFFh
			0/1 = disabled/enabled
		Bit 4	1 = slow CPU (under 25 MHz)
		Bit 3	Shadow-RAM D000-D7FFh
			0/1 = disabled/enabled
		Bit 2	(not used/unknown)
		Bit 1	Shadow-RAM D800-DFFFh
			0/1 = disabled/enabled
		Bit 0	1 = system BIOS cacheable enabled
	AMI BIOS	Information flags	
		Bit 7-6	Password control
			00 = disabled
			01 = setup
			10 = (reserved)
			11 = boot
		Bit 5	Shadow-RAM C800-CBFFh
			0/1 = disabled/enabled
		Bit 4	Shadow-RAM CC00-CFFFh
			0/1 = disabled/enabled
		Bit 3	Shadow-RAM D000-D3FFh
			0/1 = disabled/enabled
		Bit 2	Shadow-RAM D400-D7FFh
			0/1 = disabled/enabled
		Bit 1	Shadow-RAM D800-DBFFh
			0/1 = disabled/enabled
		Bit 0	Shadow-RAM DC00-DFFFh
			0/1 = disabled/enabled
	AMI BIOS	Extended memory above 16 MB, in 64 KB blocks (LSB)	
	PS/2 MCA	Bit 7-5	Number of serial ports detected by POST
		Bit 4-0	Status of BIOS INT 15h, function 87h
35h	AMI BIOS	Information flags	
		Bit 7	Shadow-RAM E000-E3FFh
			0/1 = disabled/enabled
		Bit 6	Shadow-RAM E400-E7FFh
			0/1 = disabled/enabled
		Bit 5	Shadow-RAM E800-EBFFh
			0/1 = disabled/enabled
		Bit 4	Shadow-RAM EC00-EFFFh
			0/1 = disabled/enabled
		Bit 3	Shadow-RAM F000-FFFFh
			0/1 = disabled/enabled
		Bit 2	Shadow-RAM C000-C3FFh
			0/1 = disabled/enabled
		Bit 1	Shadow-RAM C400-C7FFh

			0/1 = disabled/enabled
		Bit 0	(reserved)
	AMI BIOS 121291	Information flags	
		Bit 7	Shadow-RAM E000-E7FFh
			0/1 = disabled/enabled
		Bit 6	(not used/unknown)
		Bit 5	Shadow-RAM E800-EFFFh
			0/1 = disabled/enabled
		Bit 4	(not used/unknown)
		Bit 3	1 = automatic configuration enabled
		Bit 2	Shadow-RAM C000-C7FFh
			0/1 = disabled/enabled
		Bit 1-0	(not used/unknown)
	AMI BIOS 060692	Information flags	
		Bit 7	Shadow-RAM E000-E7FFh
			0/1 = disabled/enabled
		Bit 6	DRAM write cycle
			0 = 0 WS (20/25 MHz)
			1 = 1 WS (33-50 MHz)
		Bit 5	Shadow-RAM E800-EFFFh
			0/1 = disabled/enabled
		Bit 4	(not used/unknown)
		Bit 3	Video cacheable
			0/1 = disabled/enabled
		Bit 2	Shadow-RAM C000-C7FFh
	AMI BIOS		Extended memory above 16 MB, in 64 KB blocks (MSB)
			Extended memory in 64 KB blocks (LSB)
		Phoenix BIOS	Number of cylinders for user-defined hard disk drive 1 (MSB)
		PS/2 MCA	Extended memory in 1 KB blocks (LSB)
36h	AMI BIOS 121291	Information flags	
		Bit 7-6	(not used/unknown)
		Bit 5-3	ISA bus speed
			000 = 7.15 MHz
			001 = CLK/2
			010 = CLK/3
			011 = CLK/4
			100 = CLK/5
			101 = CLK/6
			110 = CLK/8
			111 = CLK/10
		Bit 2-1	16-bit ISA command wait states
			00 = 1 WS

			01 = 2 WS	
			10 = 3 WS	
			11 = 4 WS	
		Bit 0	(not used/unknown)	
	AMI BIOS 060692	Information flags		
		Bit 7-6	DRAM speed option	
			00 = slowest	
			01 = slower	
			10 = faster	
			11 = fastest	
		Bit 5	(not used/unknown)	
		Bit 4	Cache read cycle	
			0 = 1T (20/25 MHz; 33 MHz with 64/256 KB cache)	
			1 = 2T (40/50 MHz; 33 MHz with 128 KB cache)	
		Bit 3	Cache write cycle	
			0 = 3T (33-50 MHz)	
			1 = 2T (20/25 MHz)	
		Bit 2-0	ISA bus speed	
			000 = 7.15 MHz	
			001 = CLK/2	
			010 = CLK/3	
			011 = CLK/4	
			100 = CLK/5	
			101 = CLK/6	
			110 = CLK/8	
			111 = CLK/10	
	Phoenix BIOS	Number of cylinders for user-defined hard disk drive 1 (MSB)		
	Award BIOS	IDE control		
		Bit 7	(unknown)	
		Bit 6	IDE 32-bit transfer mode	
			0/1 = disabled/enabled	
		Bit 5-0	(unknown)	
	AMI WinBIOS	Extended memory in 64 KB blocks (MSB)		
	Quadtel HT12	Extended memory (LSB)		
	PS/2 MCA	Extended memory in 1 KB blocks (MSB)		
37h	MCA	Century byte		
	Phoenix BIOS	Number of heads for user-defined hard disk drive 1		
	AMI WinBIOS	Bit 7-4	Password initialization	
		Bit 3-0	Color options for the setup program	
	Quadtel HT12	Extended memory (MSB)		
38h	MCA	Encrypted password		
	Phoenix BIOS	Write-precompensation for user-defined hard disk drive 1 (LSB)		

	AMI	Encrypted password	
39h	Phoenix BIOS	Write-precompensation for user-defined hard disk drive 1 (MSB)	
3Ah	Phoenix	Landing zone for user-defined hard disk drive 1 (LSB)	
3Bh	Phoenix	Landing zone for user-defined hard disk drive 1 (MSB)	
	Award BIOS	Configuration byte	
		Bit 7-4	Color options for the setup program
		Bit 3-1	(unknown, usually 001)
		Bit 0	1 = external cache enabled
3Ch	Phoenix BIOS	Number of sectors for user-defined hard disk drive 1	
	Award BIOS	Boot configuration	
		Bit 7	1 = boot sector virus protection enabled
		Bit 6-5	(unknown)
		Bit 4	1 = Quick-POST enabled
		Bit 3-2	(unknown)
		Bit 1	1 = Turbo-switch enabled
		Bit 0	Boot sequence
			0 = A:, C:
		1 = C:, A:	
		Quadtel HT12	Memory size (LSB)
3Dh	Quadtel HT12	Memory size (MSB)	
3Eh	AMI	Extended CMOS checksum (MSB)	
	Award	Boot configuration	
		Bit 7	Shadow-RAM C000h
			0/1 = disabled/enabled
		Bit 6-5	(unknown)
		Bit 4	1 = swap floppy drives
		Bit 3	(unknown)
		Bit 2	1 = ignore floppy drive errors at boot
		Bit 1	1 = ignore keyboard errors at boot
	Bit 0	1 = ignore all errors at boot	
	Phoenix BIOS	Bit 7	1 = relocation enabled
		Bit 6-2	(unknown)
		Bit 1	1 = Shadow-RAM for video BIOS enabled
Bit 0		1 = Shadow-RAM for system BIOS enabled	
3Fh	AMI	Extended CMOS checksum (LSB)	