

Computer Setup (F10) Utility Guide

HP Compaq dx7400 Series



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Computer Setup (F10) Utility Guide

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About This Book

This guide provides instructions on how to use Computer Setup. This tool is used to reconfigure and modify computer default settings when new hardware is installed and for maintenance purposes.




-  **WARNING!** Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.
-  **CAUTION:** Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.
-  **NOTE:** Text set off in this manner provides important supplemental information.

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1 Computer Setup (F10) Utilities


Use Computer Setup (F10) Utility to do the following:

- Change factory default settings.
- Set the system date and time.
- Set, view, change, or verify the system configuration, including settings for processor, graphics, memory, audio, storage, communications, and input devices.
- Modify the boot order of bootable devices such as hard drives, diskette drives, optical drives, or USB flash media devices.
- Restrict a device from booting the unit.
- Run hard drive self-tests.
- View CPU and system temperatures.
- Enter the Asset Tag or property identification number assigned by the company to this computer.
- Establish a supervisor password that controls access to Computer Setup (F10) Utility and the settings described in this section.
- Secure integrated I/O functionality, including the serial, USB, or parallel ports, audio, or embedded NIC, so that they cannot be used until they are unsecured.
- Enable or disable removable media boot ability.
- Enable or disable legacy diskette write ability (when supported by hardware).

Using Computer Setup (F10) Utilities

Computer Setup can be accessed only by turning the computer on or restarting the system. To access the Computer Setup Utilities menu, complete the following steps:

1. Turn on or restart the computer.
2. As soon as the computer is turned on, press **F10** when the monitor light turns green to enter Computer Setup. Press **Enter** to bypass the title screen, if necessary.

 **NOTE:** If you do not press **F10** at the appropriate time, you must restart the computer and again press **F10** when the monitor light turns green to access the utility.

3. The Computer Setup Utility screen is divided into menu headings and actions.

Six menu headings appear on the Computer Setup Utility screen:

- System Information
- Main

- Advanced
- Boot
- PC Health
- Exit

Use the arrow keys to select the appropriate heading, then press [Enter](#). Use the arrow (up and down) keys to select the option you want, then press [Enter](#). To return to the previous screen, press [Esc](#).

4. To apply and save changes, press the [F10](#) key.

If you have made changes that you do not want applied, press the [F9](#) key to exit without saving.

To load optimized default values, press the [F7](#) key.

△ **CAUTION:** Do NOT turn the computer power OFF while the ROM is saving the Computer Setup (F10) changes because the CMOS could become corrupted. It is safe to turn off the computer only after exiting the F10 Setup screen.

Table 1-1 Computer Setup (F10) Utility Main Menu

Heading	Table
System Information	Table 1-2 Computer Setup—System Information on page 3
Main	Table 1-3 Computer Setup—Main on page 4
Advanced	Table 1-4 Computer Setup—Advanced on page 6
Boot	Table 1-5 Computer Setup—Boot on page 8
PC Health	Table 1-6 Computer Setup—PC Health on page 9
Exit	Computer Setup—Exit on page 10

Computer Setup—System Information


 **NOTE:** Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 1-2 Computer Setup—System Information

Option	Description
Product Name	(view only)
SKU Number	(view only)
Processor Type	(view only)
Processor Speed	(view only)
System ROM	(view only)
Cache Size	(view only)
Memory Size	(view only)
Integrated MAC	(view only)
UUID	(view only)
System Serial #	(view only)
Asset Tracking Number	(view only)

Computer Setup—Main


 **NOTE:** Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 1-3 Computer Setup—Main

Option	Description
Date (mm:dd:yy)	Allows you to set system date.
Time (hh:mm:ss)	Allows you to set system time.
SATA Port 1	For each, allows you to:
SATA Port 2	<ul style="list-style-type: none">• run HDD self-test for selected channel:
SATA Port 3	<ul style="list-style-type: none">◦ SMART Status Check
SATA Port 4	<ul style="list-style-type: none">◦ HDD Short Self-Test◦ HDD Extended Self-Test• auto-detect HDD size and head• set IDE drive on selected channel to:<ul style="list-style-type: none">◦ None◦ Auto• set access mode on selected channel to:<ul style="list-style-type: none">◦ Large◦ Auto• view:<ul style="list-style-type: none">◦ Firmware◦ Capacity◦ Cylinder◦ Head◦ Precomp◦ Landing Zone◦ Sector
Onboard FDC Controller	Disables/enables the floppy disk controller.
Drive A	Allows you to set Drive A to: <ul style="list-style-type: none">• None• 1.44M, 3.5 in.

Table 1-3 Computer Setup—Main (continued)

Halt On	Allows you to set POST error behavior to: <ul style="list-style-type: none">• All Errors• No Errors• All, but Keyboard
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POST Delay	Allows you to set a POST delay to: <ul style="list-style-type: none">• 0 seconds• 5 seconds• 10 seconds• 15 seconds• 30 seconds
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Computer Setup—Advanced


 **NOTE:** Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 1-4 Computer Setup—Advanced

Option	Description
Execute Disable Bit	Disables/enables hardware DEP functionality.
MAX DVMT Allocation	Specify the size of DVMT/system memory to allocate for video memory: <ul style="list-style-type: none">• 128MB• 256MB• 384MB
Init Display First (VGA Setting)	Allows you to select the primary display device: <ul style="list-style-type: none">• PCI Slot• OnChipVGA• PCIEx
Onboard HD Audio	Disables/enables onboard HD audio.
OnChip USB Controller	Disables/enables USB controller.
USB Legacy Support	Disables/enables USB legacy support function (USB keyboard, USB mouse, and USB flash media).
Onboard LAN	Disables/enables onboard LAN controller.
Onboard LAN Boot ROM	Disables/enables the boot ROM of the onboard LAN chip.
Onboard Serial Port 1	Allows you to select a setting for the onboard serial port:
Onboard Serial Port 2	<ul style="list-style-type: none">• Disabled• 3F8/IRQ4• 2F8/IRQ3• 3E8/IRQ4• 2E8/IRQ3
Onboard Parallel Port	Allows you to select a setting for the onboard parallel port: <ul style="list-style-type: none">• Disabled• 378/IRQ7• 278/IRQ5• 3BC/IRQ7
Parallel Port Mode	Allows you to select parallel port mode: <ul style="list-style-type: none">• SPP• EPP• ECP• ECP+EPP• Normal

Table 1-4 Computer Setup—Advanced (continued)

After AC Power Loss	Allows you to select system power loss behavior: <ul style="list-style-type: none">• On• Off• Last State
Wake on PCI Device from S5	Disables/enables waking up from S5 by PCI device.
RTC Alarm Resume	Disables/enables RTC (real-time clock) alarm.
Date (of Month)	If RTC Alarm Resume is enabled, allows you to select the day of the month for resumption of RTC alarm. (Set to 0 for every day.)
Resume Time (hh:mm:ss)	If RTC Alarm Resume is enabled, allows you to select what time the RTC alarm will resume.

Computer Setup—Boot


 **NOTE:** Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 1-5 Computer Setup—Boot

Option	Description
Device Boot Disabling	Allows disabling of bootable device groups. Choose from: <ul style="list-style-type: none">• None• USB• Internal ODD• Internal FDD• USB+ODD+FDD
F9 Boot Menu	Disables/enables F9 Boot Menu.
F10 Setup Prompting	Disables/enables on screen F10 prompt
F11 Recovery Prompting	Disables/enables on screen F11 prompt
F12 Boot from LAN Prompting	Disables/enables on screen F12 prompt
Removable Device Boot Seq.	Allows you to specify the order of attached removable devices (such as Floppy Discs or USB FDD). The first drive in the order has priority in the boot sequence and is recognized as drive A.
Hard Disk Boot Priority	Allows you to specify the order of attached hard drive devices (such as USB HDD storage, USB2 Drive Key, or USB flash media). The first drive in the order has priority in the boot sequence and is recognized as drive C (if any devices are attached).
Optical Drive Boot Seq.	Allows you to specify the order in which attached optical drives (including USB ODD) are checked for a bootable operating system image.
Network Boot Seq.	Allows you to specify the order in which network devices (including UP NIC cards) are checked for a bootable operating system image.
First Boot Device	Allows you to specify which devices will boot first, second, third, and fourth or to disable any of the four:
Second Boot Device	<ul style="list-style-type: none">• Removable
Third Boot Device	<ul style="list-style-type: none">• Hard Disk
Fourth Boot Device	<ul style="list-style-type: none">• CDROM• Network• Disabled
	NOTE: MS-DOS drive lettering assignments may not apply after a non-MS-DOS operating system has started.
Set Supervisor Password	Allows you to establish a password to control access to Computer Setup.
Set User Password	Allows you to establish a password to control access to the computer. (Supervisor password must be set before you can set a User password.)
Security Option	Allows you to set the security option to Setup or System so that the password is required every time the system boots or only when entering Computer Setup.
BIOS Write Protection	Enables/disables to prevent the BIOS from being updated.

Computer Setup—PC Health



 **NOTE:** Support for specific Computer Setup options may vary depending on the hardware configuration.

Table 1-6 Computer Setup—PC Health

Option	Description
System Fan Fail Check	Disables/enables system fan detection during POST.
Smart Fan Function	Disables/enables smart fan functionality.
Current CPU Temperature	(view only)
Current System Temperature	(view only)
Current CPU Fan Speed	(view only)
Current System Fan Speed	(view only)
Vcore	(view only)
12V	(view only)
5V	(view only)
VBAT (V)	(view only)
5VSB (V)	(view only)

Computer Setup—Exit

 **NOTE:** Support for specific Computer Setup options may vary depending on the hardware configuration.

Option	Description
Save & Exit Setup	Saves Data to CMOS before exiting.
Exit Without Saving	Abandons all modifications and exits.
Load Optimized Defaults	Loads Optimized Defaults.

2 Recovering the Configuration Settings

Recovering the configuration settings established in the Computer Setup (F10) Utility requires that you first back up the settings before a recovery is needed.

The CMOS Save/Load utility can be found at <http://www.hp.com> under the Software & Driver Downloads for your specific model. Download the firmware files into a folder on a removable storage device. It is recommended that you save any modified computer configuration settings to a diskette, a USB flash media device, or a diskette-like device (a storage device set to emulate a diskette drive) and save the diskette or device for possible future use.

Backing Up the CMOS

1. Make sure the computer to be backed up is turned on. Connect the removable storage to the computer.
2. Boot to DOS.
3. Type `N:\folder\BIOS.exe SAVE:ABC001.DAT` (where N is the drive letter of the removable storage) to save the CMOS setting to the removable storage device.

Restoring the CMOS

1. Make sure the target computer is turned on. Connect the removable storage to the target computer.
2. Boot to DOS.
3. Type `N:\folder\BIOS.exe LOAD:ABC001.DAT` (where N is the drive letter of the removable storage) to load the custom CMOS setting onto the target system.