



Customer Note

Configuration Mode Update

This workstation contains new features which have not yet been added to the product documentation. The purpose of this Note is to inform you about the new configuration process and Auto System Selection Mode feature. This information will help you put the workstation into operation.

When first putting the workstation into operation, the following introductory screen appears:

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BOOTROM Rev. 2.0 29 Nov 90
Bit-Mapped Video
MC68030 Processor
Configuration EEPROM
HP-HIL.Keyboard
HP-IB
DMA-CO
RAM XXXXXX Bytes
HP98644 (RS-232) at 9
HP Parallel at 12
HP98265 (SCSI S 32) at 14
HP98643 (LAN) at 21

Searching for system
RESET to Power-up

As this screen starts appearing, you will probably want to type any key to enter Attended Mode. If you don't type a key, the CPU will remain in Unattended Mode which means it will go ahead and search for and load a system.

The first time you turn the workstation on, you will probably want to configure the interfaces. You do this by going into Attended Mode and then into Configuration Mode. This Note explains how to enter Configuration Mode.

After having typed any key to enter Attended Mode and prevent booting,

type: **C** **Return**

This causes the Configuration Control Mode screen to appear:

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BOOTROM Rev. 2.0 29 Nov 90
Bit-Mapped Video
MC68030 Processor
Configuration EEPROM
HP-HIL.Keyboard
HP-IB
DMA-C0
RAM XXXXXX Bytes
HP98644 (RS-232) at 9
HP Parallel at 12
HP98265 (SCSI S 32) at 14
HP98643 (LAN) at 21

Configuration Control
Keys Control Class

1 I/O Configuration
2 Auto System Selection

A Abort without changes

Type [key] RETURN ?

Configuration Mode
RESET to Power-up

If you wish to configure any I/O interfaces,

type: **1** **Return**

This will put you into Configuration Mode, which steps you through a process for configuring your interfaces. From this point onward, operation is explained in the accompanying *BootROM Configuration Mode Users Manual*.

Auto System Selection Mode

A new feature of this bootROM revision is the ability to select a specific operating system and have it automatically boot unattended. This new feature has no effect on the operation of Attended Mode.

Most users will leave this feature in the default setting, and can skip this section. To see if this feature is for you, ask yourself the following two questions:

1. Is my workstation connected to a network that contains multiple operating systems?
2. Do I have a need to auto boot from a different operating system than the other people on the network?

Skip this section if you answered No to either question.

If you answered Yes to both questions, follow these instructions to select your specific operating system to boot automatically.

1. Enter Auto System Selection Mode:

type: **2** **Return**

2. This screen will appear in the upper right corner:

```
Auto System Selection
Keys  Option      status
-----
1  Scan for System  Y
2  Selected System  N
3  Store Selected Sys. N

E  Execute
A  Abort without changes
-----
Type [key] RETURN ?
```

Note Keep this perspective in mind: When the Auto System Selection screen is selected, what you see first is the way the workstation is currently set. As you change different key options, the menu shows what will be, as soon as you execute the changes (by typing the **E** key).

Interpreting and Using the Menu

Here is how to interpret the menu presented in the display. While reading this section, remember that "Key" and "line" are used interchangeably; that is, you type the **1** key to select line 1.

- Default is Key 1=Y, Key 2=N and Key 3=N.
- Typing Key 1, 2, or 3 will change the way the autoboot selects and stores a system. This is explained in the following section titled, "Menu Options". Selecting a key also causes the Status value to toggle between Y and N.
- Typing Key E will cause the selected changes to be executed as the system re-boots.
- Typing Key A will ignore any changes just made, and will re-start the bootROM using the previous setting.

Menu Options

- Key 1=Y tells the workstation to boot the first bootable operating system it finds.
- Key 2=Y tells the workstation to boot a specific operating system.
- Key 3=Y causes the bootRom to store the specified operating system path in the EEPROM. This allows the selected system to auto-boot unattended.

Note that some key combinations are valid but others are either invalid or meaningless. Here are the valid combinations:

1. Key 1=Y and Key 2=Y. This will cause the bootRom to try auto-booting from the selected system once. If the selected system can not be accessed (because its power switch is off or data cable is not connected), then the first bootable system will be booted. (This is the most useful selected system option).
2. Key 1=N and Key 2=Y. This will cause the bootRom to try auto-booting from the selected system only, until it boots.
3. Key 1=Y and Key 2=N. This default mode causes the bootRom to boot the first bootable system it finds. No selected system specified.

Here are the invalid or meaningless combinations. The bootROM will toggle another line in order to produce a useable combination.

- Key 1=N and Key 2=N. Key 1 or Key 2 must be Y. Trying to set both to N is not allowed and the opposite key will be automatically toggled.
- Key 2=Y and Key 3=N. Changing Key 2 to Y will automatically set Key 3 to Y. This means a new system is to be selected, and Key 3=Y says to store that new system in the EEPROM.



System Selection Example

Here is an example of how to select a specific system:

Suppose that the operating system which you wish to select for automatic booting is labelled 2H in the list of bootable operating systems displayed on the right. Furthermore, you want the workstation to try to boot the system once, and if it is not accessible to go on and scan for and boot the default system.

This situation is listed as number one in the above list of valid combinations. To set it up, follow these steps:

1. Toggle key 2 status to Y.

Type: **2** **Return**

Key 3 status will automatically toggle to Y.

2. Check to make sure key 1=Y
3. Execute this combination.

Type: **E** **Return**

At this point the screen clears and the system starts re-booting. When hp-hil.keyboard is displayed or the beeper sounds, type the space bar to invoke Attended Mode. Wait until all the devices are listed on the left and all bootable operating systems are listed on the right. The screen at this point looks almost identical to an attended mode bootup screen. The one difference is an additional message on the next to bottom line indicating that the bootROM will store the selection.

4. Select the number-letter combination listed in front of the operating system you want to select. For our example,

type: **2** **H** **Return**

The workstation stores the selected system path information in the EEPROM while clearing the screen and re-booting. The selected system will now be booted.

This completes the process, and the selected system will continue to boot until a different unattended system is selected.

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