

APPENDIXES

Appendix A

Keys and Shortcuts

Design/CPN provides a range of “power commands” for quick and efficient performance. The modifier keys are used with a command, during an operation invoked by a command, or during direct manipulation with the mouse.

Design/CPN Use of the Alt Key

Design/CPN documentation specifies the use of the ALT key in various keystroke shortcuts. Some keyboards use a DIAMOND () key instead; occasionally other keys are used. If ALT does not produce the described results, check your terminal configuration.

Keystroke Shortcuts

You can invoke some of the most commonly applied commands by using *keystroke shortcuts* instead of the items in the menus. Some keystroke shortcuts have different meanings in different contexts. The following table lists all shortcuts.

Alt+A	Select All Nodes
Alt+B	Transition, Bind
Alt+C	Copy
Alt+D	Stop
Alt+E	Place, Interactive Run
Alt+F	Find
Alt+G	Enter/Leave Group Mode
Alt+H	Horizontal
Alt+I	Get Info
Alt+J	Vertical
Alt+K	Arc, Continue
Alt+L	Label
Alt+M	Make Region
Alt+N	Find Next

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Alt+O	Open
Alt+P	Print
Alt+Q	Quit
Alt+R	CPN Region, Automatic Run
Alt+S	Save
Alt+T	Enter/Leave Text Mode
Alt+U	General Simulation Options
Alt+V	Paste
Alt+W	Select All Text
Alt+X	Cut
Alt+Y	Open Page
Alt+Z	Undo/Redo
Alt+1	Select
Alt+2	Drag
Alt+3	Displace
Alt+4	Adjust
Alt+5	Fit to Text
Alt+6	Text Attributes
Alt+7	Graphic Attributes
Alt+8	Shape Attributes
Alt+9	Region Attributes
Alt+0	Page Attributes
Alt+-	Hide Regions
Alt+=	Show Regions
Alt+[Between
Alt+]	Projection
Alt+;	ML Evaluate
Alt+'	Syntax Check, Reswitch
Alt+,	Cleanup
Alt+.	Terminates modal commands
Alt+/	Duplicate Node
Alt+`	Reduce
Alt+\	Blowup

Modifier keys

You can change the way a command works by pressing certain keys:

Option key

Pressing the **OPTION** key with the relevant command produces the following results:

- Makes port assignment to ports with a non-matching port type.
- Constrains repositioning to horizontal or vertical for **Drag**.
- Constrains resizing with the mouse to horizontal or vertical.
- Invokes the instance menu.
- Modifies all **Align** menu commands in group mode.
- Selects target node for connector drag.

Shift key

Pressing the **SHIFT** key with the relevant command produces the following results:

- Arrow keys scroll or move in text pointer hierarchy .
- Adds and subtracts to/from current selection.
- Repositions during adjust/creation.
- Creates a single binding for the selected transition.
- Invokes the page instance dialog box.
- Modifies all **Align** menu commands in group mode.

Option + Shift keys

Pressing the **OPTION + SHIFT** keys:

- Creates a single binding for the selected transition and starts an execution.

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Caps Lock key

Maintains object proportions.

Space bar

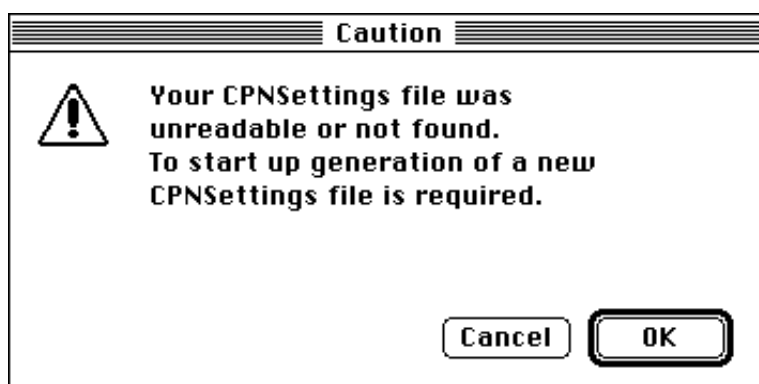
Pressing the space bar:

- Removes a point from object when the graphic tool is placed on it.
- Hides an object during selection.

Appendix B

Troubleshooting

When you try to start Design/CPN, and the CPN Settings file is missing or obsolete, Design/CPN displays:



This appendix describes various problems that you may encounter when you attempt to run Design/CPN, and tells you how to solve them. All of the problems relate in some way to the interface between Design/CPN and the computer on which it runs. The problems described are:

- CPN Settings file is missing or obsolete.
- ML configuration is unspecified or incorrect.
- ML Interpreter cannot be started.

When one of these problems occurs, Design/CPN displays a descriptive dialog box. These boxes, the problems they indicate, and the solutions to those problems, are described in this appendix.

CPN Settings File Missing or Obsolete

When you try to start Design/CPN, and the .CPNSettings file is missing or obsolete, Design/CPN displays a dialog that states:

Your .CPNSettings file was unreadable or not found. To start up, generation of a new .CPNSettings file is required.

The choices offered are **OK** and **Cancel**.

- Click **Cancel**.

Design/CPN quits.

Problem Description

When Design/CPN is installed, a directory called Design/CPN is created. This directory contains a file called .CPNSettings. In order for Design/CPN to run, this file must be copied to your home directory. If the file was not copied there, or was subsequently renamed or removed, Design/CPN cannot find the settings it needs in order to run correctly. It therefore displays the above dialog.

Problem Solution

If you have a copy of .CPNSettings in your Design/CPN directory:

- Copy .CPNSettings to your home directory.

If you do not have a copy of .CPNSettings in your Design/CPN directory:

- Reinstall Design/CPN from the source tape.
- Copy .CPNSettings to your home directory.

After you have copied the settings file:

- Start Design/CPN.

The application should now start without problems relating to CPN settings.

ML Configuration Unspecified or Incorrect.

Before you can run the ML interpreter to syntax check or execute a diagram, you must use the **ML Configuration Options** command (**Set** menu) to tell Design/CPN:

- **Hostname:** Where the ML interpreter is to be run.

- **Port number:** Which port is used by the daemon is to run the interpreter.
- **ML image:** Where the interpreter is located in the file system.

Design/CPN keeps this information as system defaults. In order for a particular diagram to use it, the information must be present in its diagram defaults.

Identifying the Problem

If any ML configuration information is missing or incorrect, Design/CPN will be unable to start the ML interpreter, and will display a dialog box. The dialog displayed depends on which information is faulty. If more than one of the parameters is faulty, the dialog that appears will describe the first erroneous parameter encountered.

If the **Hostname** is missing or wrong, the dialog offers an opportunity to log in, with **OK** and **Cancel** buttons. Attempting to log in will fail, so:

- Click **Cancel**.

If the **Port number** is missing or wrong, the dialog states:

Network not responding. Connection with host could not be established.

The dialog contains an **OK** button.

- Click **OK**.

If the ML image is missing or wrong, the dialog states:

ML could not be started. Check available memory and presence of default ML file.

The dialog contains an **OK** button.

- Click **OK**.

You must now supply the necessary information. You may be able to do this by copying the system defaults, or you may have to supply correct information by typing it into the **ML Configuration Options** dialog.

Copying Diagram Default ML Configuration Options

When the system defaults are correct, but the diagram defaults are not, the system defaults must be copied to the diagram defaults. This is typically necessary when the diagram was created on some other computer. It is also necessary if the system defaults have changed since the diagram was created. To update the diagram defaults:

- Choose **ML Configuration Options** from the **Set** menu.

The **ML Configuration Options** dialog appears.

- Click **Load**.
- Click **OK**.

The necessary information about the ML process is copied from the system defaults to the diagram defaults. Design/CPN can now start the ML process and use it to syntax check and execute the diagram.

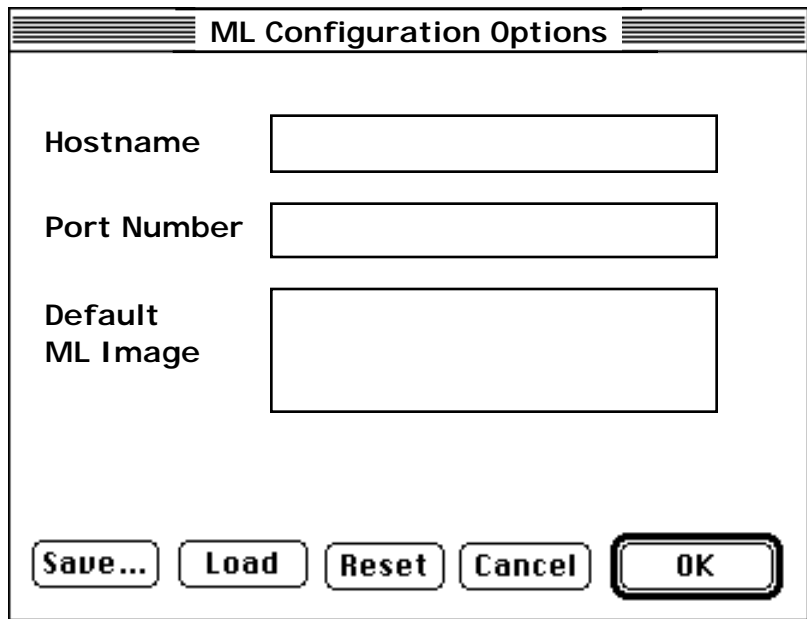
When the ML process fails to start, loading the system defaults is the thing to try first. If Design/CPN is correctly installed on your system, it will always work, and it can never do any harm since the diagram defaults were wrong in any case. If it does not work, the system default ML configuration options must be established or corrected.

Setting ML Configuration Options

To establish new values for any or all ML configuration options:

- Choose **ML Configuration Options** from the **Set** menu.

The **ML Configuration Options** dialog appears:



The image shows a dialog box titled "ML Configuration Options". It contains three text input fields labeled "Hostname", "Port Number", and "Default ML Image". At the bottom of the dialog, there are five buttons: "Save...", "Load", "Reset", "Cancel", and "OK".

- Enter correct values as needed for the **Hostname**, **Port number**, and **ML image** fields.

See the Design/CPN Installation Notes for information on determining these values.

If you want the new values to become system defaults:

- Click **Save**.

A confirmation dialog appears.

- Click **OK** in the confirmation dialog.

The values in the **ML Configuration Options** dialog are now the system defaults.

To make the new values the diagram defaults:

- Click **OK** in the **ML Configuration Options dialog** .

The values in the **ML Configuration Options** dialog are now the diagram defaults. The dialog closes. If the values are correct, you will now be able to use the ML interpreter to syntax check and execute the diagram.

ML Interpreter Cannot Be Started

In order to run, the ML interpreter needs:

- A least 32 meg of RAM.
- At least twice as much swap space as RAM.

Larger allocations will result in better performance.

If the ML interpreter does not have enough RAM or swap space to run in, attempting to start it will display a dialog that mentions a lack of available memory. There are two possible solutions:

- Terminate other processes that are running in your memory space, freeing their memory allocations for use by the ML interpreter.

If there are no such processes, or terminating them does not free enough memory:

- Ask your system administrator to increase your memory allocation.

