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Parameter Editor User's Manual

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Parameter Editor Use's Manual

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Parameter Editor User's Manual

Introduction

This manual describes how to use the SCSP/DSP parameter editor called **pEdit**.

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pEdit Functions

pEdit provides functions for editing coefficient data and address constant data included in DSP programs that are downloaded to the SCSP/DSP hardware.

The SCSP/DSP assembler **dAsms** can specify several notational modes, such as integers and fractions, in the coefficient/address constant definition section of the **dAsms** source code. However, **pEdit** can display and input coefficient/address constant data with the same notational modes used in the **dAsms** source code because it reads the specified notational mode information from the executable format file.



Menu Structure

File Menu

Open...

Selects an assembled (executable format) DSP program from the standard file dialog and downloads the program to the SCSP. **pEdit** can handle only DSP program executable-format files (extension .EXC) that have been created by the SCSP/DSP assembler **dAsms**.

Save

Saves the DSP program that was modified by **pEdit** in executable format without changing the file name.

Save As...

Saves the DSP program that was modified by **pEdit** in executable format under a new file name that was specified from the standard file dialog.

Revert To Saved

Returns the parameters being edited to the condition before the parameters were edited (when the parameters were last saved).

Close

Terminates editing of the currently open DSP program. If the program has not been saved after parameter modification, this function confirms whether the modifications should be saved. At Close execution, the internal data in **pEdit** is erased, but the data for the program in the DSP hardware is not cleared.

Quit

Terminates **pEdit**.

Edit Menu

Find

Searches for symbol names of coefficients and addresses defined in the DSP program. The Find function is described later in this manual.

Window Menu

Address

Opens the Address (address constant editing) window, which the DSP uses to access external memory.

Coef

Opens the Coefficient (coefficient editing) window, which the DSP uses for operations.

Using pEdit

Executable Data

pEdit can be used to edit the contents of the coefficient (COEF) RAM and address constant (ADRS) RAM in the SCSP/DSP hardware.

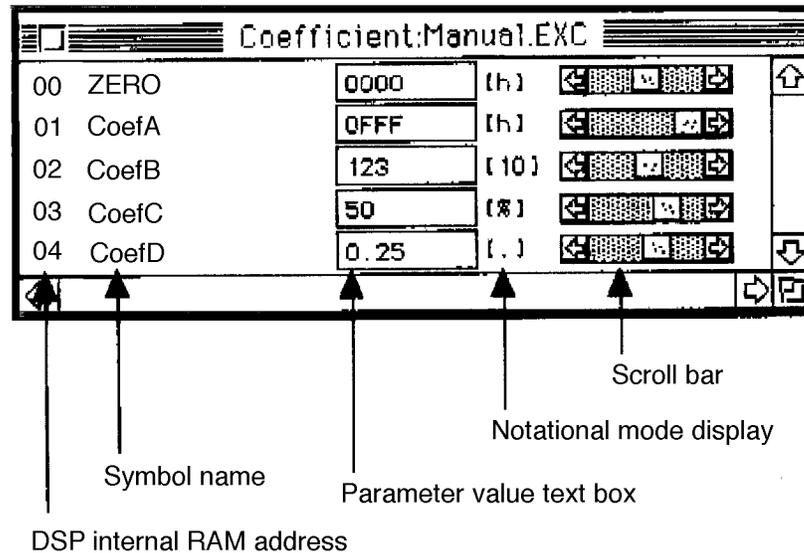
Procedure

1. Loading executable-format DSP programs
Execute **Open** from the File Menu to select the executable-format file to be edited. When a file is selected, the DSP program is downloaded to the SCSP/DSP. In addition, two parameter editing windows, the Coefficient window for editing coefficients and the Address window for editing address constants, are opened on the screen. (The parameter editing windows are described later in this manual.)
2. Editing parameters
Parameters can be edited in the parameter editing windows (described later) in two ways:
 - a) Enter a value directly in the text box in which the parameter value is displayed.
 - b) Operate the scroll bar with the mouse.
3. Saving executable-format DSP programs
To save edited parameters, execute **Save** or **SaveAs...** from the File Menu. The editing results are saved as an executable-format file (extension .EXC).



Parameter Edit Window

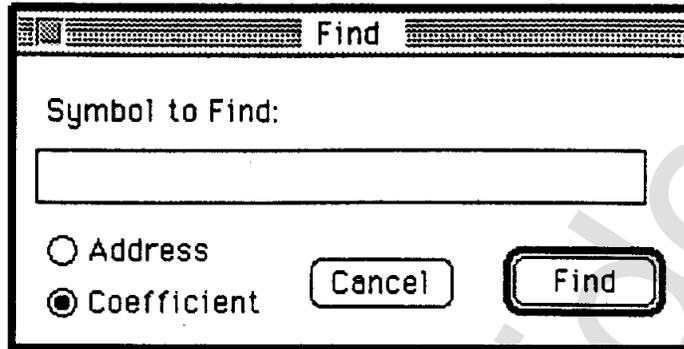
pEdit provides two parameter editing windows: the Coefficient window for editing coefficient data and the Address window for editing address constant data. This section explains the Coefficient window according to the example shown in the figure below.



- DSP internal RAM address**
 Displays the DSP hardware internal RAM address at which the data corresponding to the symbol name of the coefficient (COEF) or address constant (ADRS) is stored.
- Symbol name**
 Displays the name used in the coefficient/address constant definition section in the SCSP/DSP assembler (**dAsms**) source code.
- Parameter value text box**
 Displays and inputs parameter values in the SCSP/DSP assembler (**dAsms**) source code. The values can be displayed and input according to the notational mode specified for each data in the coefficient/address constant definition section.
- Notational mode display**
 Displays the notational mode that was specified for the data in the coefficient/address constant definition section of the SCSP/DSP assembler (**dAsms**) source code.
- Scroll bar**
 Changes the data when operated with the mouse.

Find Function

If the symbol name of the parameter to be edited cannot be immediately located in the parameter edit windows, use the Find command in the Edit Menu to retrieve the symbol name of the coefficient or address constant.



When the Find command is executed, the window shown above appears. To execute the search, enter the symbol name to be retrieved in the text box, select the Address or Coefficient button, then click the Find button.

