

PlayStation DECI Driver Version 1.4

Installing the PlayStation DECI driver

* Introduction

The PlayStation DECI driver is a Windows (95/NT) driver that permits the PlayStation development board to be used with various tools. Please install the driver according to the instructions below when using CodeWarrior R4 or later, or other tools that require the DECI driver.

Note that SDevTC, which works with dextbios, h25bios, etc., cannot be used in conjunction with the DECI driver.

* Operating system and machine

Support is provided for the four combinations given below. Select the appropriate one for your operating system and machine.

- A. Windows95 and the DTL-H2000/DTL-H2700
- B. Windows95 and the DTL-H2500
- C. WindowsNT and the DTL-H2000/DTL-H2700
- D. WindowsNT and the DTL-H2500

* Installation

- A. Installing the DTL-H2000/DTL-H2700 for Windows95.

A-1. Setting up the hardware

Connect the DTL-H2000/H2700 to the PC by following the instructions for the development board or those in the start-up manual.

A-2. Initializing the board (DTL-H2700 only)

Please update the DTL-H2700 to the latest firmware release. An update can be performed by executing the following commands from the DOS prompt or DOS. This operation is not necessary for the DTL-H2000.

```
> cd deci\flash27
> flash 1340 (1340 is the I/O Address for the DTL-H2700.)
```

A-3. Disabling settings for CW R3 and earlier, and SDevTC, environments

If a driver from CW R3 or earlier is installed, please uninstall the old driver. Select Start Menu -> Settings -> Control Panel -> System -> Device Manager -> PlayStation -> DTL-H2000 delete.

In the SDevTC environment, if loading of dextbios takes place in config.sys, remove or comment out the line.

A-4. Specifying the I/O Address and the IRQ

Copy deci\psx95isa to an appropriate location on the hard disk.

Double click the deci\psx95isa\psx95isa.inf in the copied files.

Find the line beginning with ;IRQConfig=.

If an IRQ is to be used, first delete the initial semicolon (;) then enter the board setting such as 10, 12, 15 (e.g., IRQConfig=10).

If an IRQ is not used, leave the semicolon (;) as is.

A line beginning with IOConfig= should appear next. Specify the I/O address in this line, as in IOConfig=1240-124b(3ff::).

The initial values are set to

IRQ: none

I/O address: 1340.

A-5. Installing the driver

Select Start Menu -> Settings -> Control Panel -> Hardware. To start the installation, follow the procedure below.

- a. Click on "Next".
- b. Select "No" for automatic detection, then click on "Next".
- c. Select "Other device" and click on "Next".
- d. Select "Have disk". For the copy source, specify the directory containing psx95isa.inf as described above in section A-4.
- e. Select PlayStation Board DECI (DTL-H2000/H2700) and click on "Next". The port address will be displayed. Click on "Next".
- f. Click on "Finish" to complete installation of the driver.

B. Installing the DTL-H2500 for Windows95

B-1. Setting up the hardware

Connect the DTL-H2500 to the PC by following the instructions for the development board or those in the start-up manual.

B-2. Initializing the board

Please update the DTL-H2500 to the latest firmware release. An update can be performed by executing the following commands from the DOS prompt or DOS.

```
> cd deci\flash25
```

```
> flash
```

B-3. Disabling settings for CW R3 and earlier, and SDevTC, environments

If drivers are not being used they should be deleted. Otherwise, the other devices would recognize the board as a PCI card.

Start Menu -> Settings -> Control Panel

System -> Device Manager -> Other Devices -> PCI Card -> Delete

If a driver from CW R3 or earlier is present, it should be uninstalled.

Start Menu -> Settings -> Control Panel

System -> Device Manager -> PlayStation -> DTL-H2500 -> Delete

B-4. Installing the driver

Select Start Menu -> Settings -> Control Panel -> Hardware. To start installing, follow the procedure below.

- a. Click on "Next".
- b. Select "No" for automatic detection, then click on "Next".
- c. Select "Other device" and click on "Next".
- d. Select "Have disk". Specify deci\psx95Pci as the copy source.
- e. Select PlayStation Board DECI (DTL-H2500) and click on "Next". The board is Plug-and-Play compatible so select "Next". Click "Finish" to complete installation of the driver.

C. Installing the DTL-H2000/DTL-H2700 for WindowsNT

C-1. Setting up the hardware

Connect the DTL-H2000/DTL-H2700 to the PC by following the instructions for the development board or those in the start-up manual.

C-2. Initializing the board (DTL-H2700 only)

Please update the DTL-H2700 to the latest firmware release. Update the firmware by copying the files in deci\flash27 to a bootable floppy disk and executing the following commands. This operation is not needed for the DTL-H2000.

```
> cd deci\flash27
> flash 1340 (1340 is the I/O Address for the DTL-H2700.)
```

C-3. Specifying the I/O Address and the IRQ

Copy deci\psxNTisa to an appropriate place on the hard disk. Double click deci\psxNTisa\psxNTisa.inf on the hard disk.

Find the line beginning with ISAIRQ=.

When using an IRQ, enter the board setting, such as 10, 11, 12, 15 (e.g., ISAIRQ=10). If no IRQ is used, enter a 0.

The next line should be one beginning with ISAAddress=. Enter the I/O address here (e.g., ISAAddress=0x1240).

Initial settings are
IRQ: none
I/O address: 1340.

C-4. Installing the driver

Right-click the psxNTisa.inf file that was copied at step C-3.

Select the Install option from the menu. This completes installation of the driver.

D. Setting up the DTL-H2500 for WindowsNT

D-1. Setting up the hardware

Connect the DTL-H2500 to the PC by following the instructions for the development board or those in the start-up manual.

D-2. Initializing the board

Please update the DTL-H2500 to the latest firmware release. Update the firmware by copying the files in deci\flash25 to a bootable floppy disk and executing the following commands.

```
> cd deci\flash25
> flash
```

D-3. Installing the driver

Right-click the psxNTPCi.inf file in the deci\psxNTPCi directory.

Select the Install option from the menu. This completes the installation of the driver.

* Temporarily disabling the driver

The driver should be disabled when using the SDevTC tool. Each time the driver is changed, the firmware must be updated to the appropriate version. To determine the proper firmware version, see the instructions for the corresponding tool.

A.B. Disabling drivers under Windows95

Start Menu -> Settings -> Control Panel

System -> Device Manager -> PlayStation -> PlayStation Board DECI (DTL-H2....). Under Device Usage, check "Disable for this hardware configuration".

C.D. Disabling drivers under WindowsNT

Start Menu -> Settings -> Control Panel -> Device -> PlayStation Board DECI (DTL-H2....). If the state is started, click Cancel and press the Start-up button to switch to manual mode.

* Re-enabling drivers

Drivers that were disabled using the procedure described above can be re-enabled in the following manner.

Update the version of the firmware using the same steps that were used during installation.

A.B. Re-enabling drivers under Windows95

Start Menu -> Settings -> Control Panel

System -> Device Manager -> PlayStation -> PlayStation Board DECI (DTL-H2....). Under Device Usage, uncheck "Disable for this hardware configuration".

C.D. Re-enabling drivers under WindowsNT

Start Menu -> Settings -> Control Panel -> PlayStation Board DECI (DTL-H2....).

Press the Startup button to switch to System. Press the Start button.

* Uninstalling

A.B. Uninstall drivers from Windows95

Start Menu -> Settings -> Control Panel

System -> Device Manager -> PlayStation -> PlayStation Board DECI (DTL-H2....). Select Delete.

If there is an inf\other directory in the Windows System directory, delete the remaining settings files.

Depending on the Windows95 version, settings files in the inf directory may be renamed oemxx.inf. These should be deleted.

C.D. Uninstall drivers from WindowsNT

Start Menu -> Settings -> Control Panel -> Device -> PlayStation Board DECI (DTL-H2....)

Click the Startup button. This will disable the driver.

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