

CUSTOMER NOTIFICATION

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V850E/ME2 Device File

DF703111 (V1.10)

User's Manual

[Supported machines/OS]

PC-9800 Series (Windows™ Based)

IBM PC/AT Compatibles (Windows™ Based)

SPARCstation Family (SunOS™/Solaris™ Based)

Be sure to read this document before using the product.

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1. OUTLINE

A device file is a binary file that contains device-dependent information and is prepared for each device model or for each product in the same series.

Device files are commonly used with development tools (such as compilers and debuggers). Employing device files enables generation and debugging of device-unique codes. In addition, when developing applications, device files enable the SFR names unique to the device being used to can be used for programming.

The DF703111 contains device files necessary for developing applications using the V850 Series V850E/ME2.

2. CONTENTS OF PACKAGE

The device files included in this product and the corresponding devices are as follows.

Table 2-1. Contents of Package

Types	Device File Name	Corresponding Device Name	Model Specification Name	Version
Device file	D3111.800	μ PD703111	3111	V1.10

The "model specification name" is used as the character string specified with the CA850 compile option "-cpu", the "#pragma cpu directive" in source programs, and the ".option directive". Use lowercase letters for specification.

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UNIX is a registered trademark licensed by X/Open Company Limited in the US and other countries.

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3. USER ENVIRONMENT

Like development tools, device files are available for both Windows and UNIX. Use the device files that match your development environment.

User environment for device files is as follows.

Machine	Operating System
PC-9800 series, IBM PC/AT compatible machines	Windows 98 Windows NT 4.0 Windows 2000 Windows Me Windows XP
SPARCstation	SunOS 4.1.4 or later Solaris 2.5.1 or later

4. CORRESPONDING VERSIONS OF DEVELOPMENT TOOLS

The corresponding versions of the DF703111 and V850 Series development tools made by NEC Electronics are shown below. Use these tools in the following combinations.

Tool Used	Version of Corresponding Tool
C compiler package CA850	V2.50 or later
Integrated debugger ID850NW	V2.52 or later
Real-time operating system RX850	V3.13 or later

5. INSTALLATION

5.1 On a Windows Platform

Device files are included on one floppy disk. Use the device file installer (DFINST) included in the NEC Electronics development tools (CA850, ID850NW) to install the device file.

Note A self-extraction file (an execution file) is downloaded along with device files with ODS (on-line delivery service). If this file is executed, a disk image is created. Copy this to hard disk or to a floppy disk and then begin the installation process.

The installation procedure is explained below.

- (1) Start Windows.
- (2) Start the device file installer (DFINST). If the NEC Electronics development tool has been installed in the standard directory, the device file installer will be in *installed drive\Nectools32\bin*.
- (3) If installing from the floppy disk, insert the floppy disk in the floppy disk drive.
- (4) Click the **Install** button.
- (5) If installing from the floppy disk, use the **FD Browse** button to display the path where the disk image (icon) is located. Use the **Browse** button to do this if installing from hard disk.
- (6) Necsetup.ini file and _csetup.ini file are displayed in the file list of the dialog box that appears after step (5). Select _csetup.ini to install the English version and Necsetup.ini to install the Japanese version.
- (7) Follow the installation wizard to continue installation.

5.2 On a UNIX Platform

The device files are included in either a cartridge magnetic tape (CGMT) or a floppy disk. In both cases, the device files are stored in UNIX command tar format. The method for reading from CGMT or floppy disk is explained below.

5.2.1 Installing from CGMT

Device files are stored on one CGMT.

- (1) Login to the host machine.
- (2) Go to the install directory.

The install directory in this case is `/usr/local/nctools32/dev`.

```
% cd/usr/local/nctools32/dev
```

- (3) Set the CGMT in the cartridge slot.
- (4) Execute the tar command to read the device files from the CGMT.

```
% tar xvof /dev/rst8 1
```

5.2.2 Installing from FD

Device files are stored on one floppy disk.

- (1) Login to the host machine.
- (2) Go to the install directory.

The install directory in this case is `/usr/local/nctools32/dev`.

```
% cd/usr/local/nctools32/dev
```

- (3) Set the floppy disk in the floppy disk drive.
- (4) Execute the tar command to read the device files from the floppy disk.

```
% tar xvof /dev/rfd0c 2
```

¹ This is a special file name that indicates a UNIX operating system CGMT device. The special file used will depend on the density of the data when stored on the CGMT. For further information refer to the user's manual of the host machine or contact the system manager.

² This is a special file name that indicates a UNIX operating system floppy disk drive. The special file used will depend on the density of the data stored on the CGMT. For further information refer to the user's manual of the host machine or contact the system manager.

6. USAGE

Refer to the user's manual of each tool listed in **7. RELATED DOCUMENTS** for details of how to use the device file.

Caution The reset entry address is 0100000H.

See the user's manual of the device file for details.

7. RELATED DOCUMENTS

The documents related to the DF703111 are listed below.

User's Manuals
V850E/ME2™ - Hardware
V850E1 - Architecture
CA850 C Compiler Package - Operation
CA850 C Compiler Package - C Language
CA850 C Compiler Package - Assembly Language
CA850 C Compiler Package - Project Manager
CA850 C Compiler Package – PM plus
ID850NW User's Manual - Operation
V800 Series Development Tools Tutorial Guide (Windows Base)

8. REVISION HISTORY

8.1 V1.10

(1) First edition