

CUSTOMER NOTIFICATION

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Device File for V850ES/KG1

DF703214 (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.

This product (DF703214) contains device files necessary for developing applications using the V850 Series V850ES/KG1.

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	D3212.800	μ PD703212	3212	V1.00
	D3213.800	μ PD703213	3213	V1.00
	D3214.800	μ PD703214	3214	V1.00
	D3212Y.800	μ PD703212Y	3212y	V1.00
	D3213Y.800	μ PD703213Y	3213y	V1.00
	D3214Y.800	μ PD703214Y	3214y	V1.00
	DF3214.800	μ PD70F3214	f3214	V1.00
	DF3214Y.800	μ PD70F3214Y	f3214y	V1.00
Database file	S3212.800, S3212Y.800, S3213.800, S3213Y.800, S3214.800, S3214Y.800, SF3214.800, SF3214Y.800			
Flash information file	FF3214.800, FF3214Y.800			

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` quasi directive. Use lowercase letters for specification.

The database file is a file required when using the SM850 (system simulator).

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SPARCstation is a trademark of SPARC International, Inc.

Solaris and SunOS are trademarks of Sun Microsystems, Inc.

PC/AT is a trademark of International Business Machines Corporation.

It is recommended to use the latest version of the database file. If this file already exists when the database file is being installed using a device file installer, you are asked if you want to overwrite the file. At this time, confirm the time stamp and make sure that the file being installed is the latest version (note, however, that this file is always overwritten when installing the SM850).

The file is not necessary when using the ID850. Therefore, you don't have to install this file.

The flash information file is a file required when emulating flash self-write in the ID850. This function is supported in **ID850 V2.51 or later**.

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 NT 4.0 Windows 98 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 DF703214 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 ID850	V2.51 or later
System simulator SM850	V2.51 or later
System performance analyzer AZ850	V3.10 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, ID850, and SM850) 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`.

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

- (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.

7. RELATED DOCUMENTS

The documents related to this product (DF703214) are listed below.

User's Manuals
V850ES/KF1, V850ES/KG1, V850ES/KJ1 Hardware
V850 Architecture
CA850 C Compiler Package Operation
CA850 C Compiler Package C Language
CA850 C Compiler Package Assembly Language
CA850 C Compiler Package PM plus
ID850 User's Manual Operation
SM850 User's Manual Operation
V800 Series Development Tools Tutorial Guide (Windows Base)

8. REVISION HISTORY

1. V1.00

- (1) First edition

2. V1.10

- (1) Addition of the following database files for simulator

S3212.800, S3212Y.800, S3213.800, S3213Y.800, S3214.800, S3214Y.800,
SF3214.800, SF3214Y.800

- (2) Addition of the following flash information files

FF3214.800, FF3214Y.800