

CUSTOMER NOTIFICATION

SUD-DT-03-0233-E
June 20, 2003
Koji Nishibayashi, Senior System Integrator
Microcomputer Group
2nd Solutions Division
Solutions Operations Unit
NEC Electronics Corporation

CP(K),O

78K0 Series Integrated Debugger ID78K0-NS V2.52 Operating Precautions

For PC-9800 Series (Windows™ based)
and IBM PC/AT Compatibles (Windows™ based)

Be sure to read this document before using the product.

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Thank you for purchasing the integrated debugger ID78K0-NS.

This document describes the points to be noted when using this integrated debugger. Be sure to read this document before using the integrated debugger.

For details of how to use and the functions of the integrated debugger, refer to the online help supplied with the product or "ID78K0-NS Integrated Debugger V2.52 Operation User's Manual (Windows™-based)" (document number: U16488E).

1. ID78K0-NS V2.52 OPERATING ENVIRONMENT

(1) Host machine

PC-9821 series, PC98-NX series, and IBM PC/AT compatible machines

CPU: Pentium 166 MHz or above

Main memory: 64 MB or more (128 MB or more recommended)

OS: Windows 98, Windows NT 4.0, Windows 2000, Windows Me, Windows XP

* It is recommended to install the latest service pack for each OS.

(2) Supported devices

Target Device	Emulator
78K0 Series, 178K0 Series	IE-78K0-NS, IE-78K0-NS-A

(3) Supported tools

Assembler package: RA78K0 V3.60 or later

C compiler package: CA78K0 V3.50 or later

Supported device driver: IE-PC Driver V2.10 or later

2. FILES NECESSARY FOR EXECUTING ID78K0-NS V2.52

The following files are necessary for using ID78K0-NS V2.52.

(1) ID78K0-NS system file (this product)

Included in the folder "ID78K0-NS" in the CD-ROM.

(2) Device driver (supplied with this product)

Included in the folder "ID78K0-NS\DRIVER" in the CD-ROM.

3. INSTALLATION

Before installing ID78K0-NS V2.52, it is necessary to install the following.

- Device driver
- ID78K0-NS
- Device file

3.1 Device Driver

Install the device driver by following the instructions in "README_E.TXT" in the folder "ID78K0-NS \DRIVER\" on the CD-ROM.

3.2 ID78K0-NS

3.2.1 Notes on installation

- <1> Because it may be necessary to restart the computer after installation, terminate all other applications.
- <2> To re-install ID78K0-NS V2.52, uninstall the copy of ID78K0-NS V2.52 already installed. If this product is installed in a different directory without uninstalling the first copy of ID78K0-NS V2.52, the first copy of ID78K0-NS V2.52 already installed cannot be uninstalled.
- <3> Do not install ID78K0-NS V2.52 in a directory with a name containing a space or a multi-byte character; otherwise the related tools, such as the project manager, that are installed in the same directory as this product may not be correctly executed depending on their version.
- <4> The following file will be created after ID78K0-NS V2.52 has been installed. This file is necessary for uninstalling ID78K0-NS V2.52 and must not be deleted (the installation destination is assumed to be C:\NECTools32).
C:\NECTools32\SETUP*.*
- <5> The ID78K0-NS help is supplied in the HTML help format. If the help is not displayed correctly, proceed as follows.
 - Install Microsoft Internet Explorer 4.0 Service Pack 2 or later (IE5.0 or later recommended)
 - Activate "hhctrl.ocx 1.32 installer" included in ID78K0-NS V2.52
(Select [Start] → [Program] → [NEC Tools 32] → [hhctrl.ocx 1.32 installer])

This procedure is not required when using a host machine in which Windows 98, Windows 2000, or Windows XP is installed.

- <6> The font size of the help menu is affected by the font settings in Internet Explorer. The display is too large in the default size ("Medium") of Internet Explorer. Therefore, change the font size to "Smallest" in [Fonts] from the [View] menu and restart the help.
In case of IE 4.0, however, the font size for the help menu cannot be changed.
- <7> The project manager is not supported in ID78K0-NS V2.52 or later. Use PM plus.
PM plus is included in RA850 V3.60 or later, so upgrade to RA850 to V3.60 or later. If the project manager is used with ID78K0-NS V2.52, the following warning is displayed.
Wf109: project manager cannot be used with the debugger of this version. Please use PM plus.
- <8> ID78K0-NS V2.52 can be installed in the English Windows environment only.
If an attempt is made to install ID78K0-NS V2.52 in an environment other than English Windows, a message indicating a file transfer error is displayed and the installation is aborted.
This situation also occurs if a language other than English is specified as the system language in the "Regional Settings Properties" tab.

3.2.2 Installation procedure

This section explains the installation procedure, assuming that ID78K0-NS V2.52 is installed under the directory "C:\nectools32".

- <1> Turn on power to the host machine and start Windows.
- <2> Insert the CD-ROM in the CD-ROM drive. The installer is started automatically.
If it does not start automatically, start the program "setup.exe" from the directory NEC_ID78K0-NS\ID78K0-NS\DISK1. After starting the program, follow the directions on the screen.
- <3> The following file is necessary for uninstalling ID78K0-NS V2.52 and must not be deleted (the installation destination is assumed to be C:\NECTools32).
C:\NECTools32\SETUP*.*

3.3 Device File

To install the device file, use the dedicated installer "DFINST.EXE" supplied with ID78K0-NS V2.52 or other 32-bit version products. This installer allows the device file to be installed in the Win32 environment.

In the Win32 environment of ID78K0-NS V2.52, be sure to use "DFINST" because it is necessary to register the device file information in the registry.

The procedure for installing the device file is explained below. For details of the dedicated installer DFINST, refer to the online help provided in DFINST.

- <1> Start "DFINST.EXE". To install a new device file, click on the opening screen that is displayed after the installer has been started, and select the install information file "NECSETUP.INI" from the device file product disk.

- <2> To move a device file already registered in "NECDEV.INI" to the Win32 environment, select "Select Source" in DFINST and specify "NECDEV.INI". Select a model from those displayed in the "Source" field, and click .

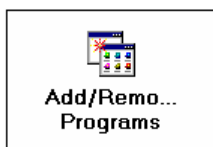
- <3> To uninstall the device file, select a model from those displayed in the "Registry" field in DFINST, check "Delete File", and then click .

3.4 Uninstallation

This section describes how to uninstall ID78K0-NS V2.52.

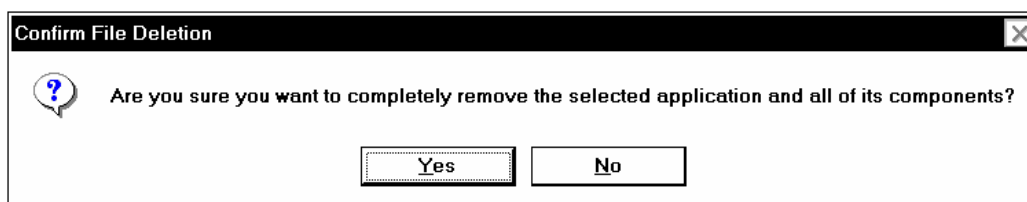
<1> Turn on power to the host machine and start Windows.

<2> Start "Add /Remove Programs" in the Control Panel.



<3> Select "NEC ID78K0-NS 78K/0 Integrated Debugger V2.52" from the list displayed in "Install/Uninstall" and click .

<4> A dialog box for confirming deletion of files will be displayed. Click . Deleting of the files will be started.



<5> When the completion message is displayed, click .

<6> This completes uninstalling ID78K0-NS V2.52.

4. MAJOR REVISIONS IN ID78K0-NS V2.52

The major revisions from V2.31 to V2.52 are shown below.

4.1 Added or Modified Functions

- Windows XP is now supported. Windows 95 is no longer supported in V2.52 and later.
- PM plus is now supported. Project Manager is no longer supported.
- The right-click menu has been modified.
- The expression "internal RAM" in the Configuration dialog box has been changed to "Internal high-speed RAM"
- A variable, octadecimal, hexadecimal, and negative number can now be specified as a subscript of arrays in windows displaying variables such as the Watch window.

Example) Variable: var[i], octadecimal: var[010], hexadecimal: var[0xab], negative number: var[-6]

- The display file save/restore function has been separated into a display file and an environment file.
- The color of the frame at the start of a function in the Trace window has been changed to make it easier to see.
- Memory banks are now supported.
- The Help menu has been changed to an HTML-format help.

4.2 Modification of Restrictions

- Correction of the following bugs found after ID78K0-NS V2.31 was released (see attachment 1 for details).

2, 5, 7, 8, 17, 23, 26, 27, 28, 31, 32, 33, 34, 35, 36, 37, 38, 39, 43, 48, 49, 50, 51, 61, 62

5. RESTRICTIONS AND CAUTIONS

This section explains the restrictions and cautions when using ID78K0S-NS V2.52.

5.1 Restrictions

See attachment 1.

5.2 Cautions

- (1) The cursor in the ASCII display area does not follow changes in the display address on the memory window.
- (2) The IAR compiler V3.30A or above is supported.
- (3) When the SFR names in several lines are selected in the SFR Select dialog box, the order of the selected SFR names cannot be changed. As a workaround for this problem, select the lines one by one and change the SFR display order.
- (4) Up to 10,000 lines can be displayed in the Watch window.
If the number exceeds 10,000, an error message will be output.
- (5) Up to 65535 lines can be supported (displayed) in a C source file.
If the number exceeds 65535, divide the source.
- (6) The debugger cannot be activated when a project file for which "Target" is selected as the operating power supply is read when the target power supply is off.
The workarounds are shown below.
 - 1) Terminate PM plus if it is activated.
 - 2) Specify "Internal" as the operating power supply and activate the ID78K0-NS alone.
 - 3) Select the project file to be read from "Open" under "Project" in the File menu in the main window.
- (7) If an application is switched for any reason while an event icon is being dragged, the icon cannot be dropped. In such a case, release the drag status using the ESC key.

List of Restrictions in ID78K0-NS

1. Product History

No.	Bugs and Changes/Additions to Specifications	Affected Version	
		V2.31	V2.52
1	Bug that a mask value cannot be set in the Event dialog box	√	√
2	Bug that the wrong error message is output in the Symbol to Address dialog box	×	√
3	Bug that no error message is displayed in the Source Move dialog box	√	√
4	Bug in trace search	√	√
5	Bug that the maximum display address of the Assemble window is not displayed	×	√
6	Bug that "Coverage" on the Option menu stays valid	√	√
7	Bug that the members of pointers cannot be displayed in the Watch window	×	√
8	Bug when mixed display is set in the Source window	×	√
9	Bug that part of the status is not displayed on screens with less than 800 x 600 resolution	√	√
10	Bug that the Memory Compare Result dialog box cannot be closed with the return key	√	√
11	Bug related to the Add Link button in the Trace dialog box	√	√
12	Bug in error message during program execution	√	√
13	Bug when an illegal area is included in the Memory Compare dialog box	√	√
14	Bug that no error message is output when a project file is read	√	√
15	Bug that no error message is displayed even if an I/O protect setting is made	√	√
16	Bug that the object is also loaded in the Download dialog box	√	√
17	Bug that the 201st (320th) and subsequent characters are not displayed	×	√
18	Bug that 178K Series devices cannot be selected	√	√
19	Bug that an error occurs if an SFR name of 7 characters or longer is input in the Assemble window	√	√
20	Bug that mapping cannot be performed when the reduced internal ROM area is used for target mapping	√	√
21	Bug that the software break function cannot be used	√	√
22	Bug that the debugger cannot display a source file	√	√
23	Bug that a breakpoint to the same address as the defined symbol value cannot be set	×	√
24	Bug that the pointer variable value cannot be displayed correctly in the Variable window	√	√
25	Bug that an error occurs if a load module is downloaded again	√	√
26	Bug that the display may become illegible if the right/left arrow key is used to scroll the area	×	√
27	Bug that a break point cannot be set if a file name that includes a "-" (minus) or "+" (plus) exists in a source file	×	√
28	Bug that the debugger is abnormally terminated	×	√

No.	Bugs and Changes/Additions to Specifications	Affected Version	
		V2.31	V2.52
29	Bug that the last line is not displayed in the Coverage-Efficiency View dialog box	×	×
30	Bug that the source contents are not displayed in the Source Window	√	√
31	Bug in search file function in Source Search dialog box	×	√
32	Bug that the display in the Watch and Local window is incorrect when an array is declared as a function argument	×	√
33	Bug that all traces are executed if the trace includes a snap shot event	×	√
34	Bug that the program cannot be edited when the Source window is in mixed-display mode	×	√
35	Bug that files with the same name cannot be displayed in the Source window	×	√
36	Bug that a dummy RRM is disabled in the SFR area	×	√
37	Bug that the memory search is aborted	×	√
38	Bug that symbols with a func#var (func: Function name, var: Variable name) format cannot be converted into addresses	×	√
39	Bug that the variable display in the Watch window may not be valid	×	√
40	Bug that target mapping can be executed even if the target memory does not actually exist	√	√
41	Bug that the LMF file created in the IAR's compiler or assembler may not be able to be read	√	√
42	Bug that a run may not stop	×	×
43	The memory bank function is not supported	×	√
44	Bug that the OSD display is garbled in the μ PD178048	√	√
45	The non-map and SFR areas are displayed as "00" in the Memory window	√	√
46	Bug that the operation speed of the debugger is extremely degraded when a variable is registered in the Watch window	√	√
47	Bug that the trace information is not displayed correctly	√	√
48	Bug in saving a display file in the Watch window	×	√
49	Bug that the default internal RAM size is not correct in the μ PD780001	×	√
50	Bug that the stack setting cannot be modified	×	√
51	Bug that the IRAM setting does not operate correctly in the Configuration dialog box	×	√
52	Bug that the display digit of the bit variable and bit field is wrong in the Watch window	×	×
53	Bug that a read-only project file can be overwritten	×	×
54	Bug that Help does not open in the Trace window even if the F1 key is pressed	×	×
55	Bug that the active project cannot be switched correctly in PM	–	×
56	Bug in changing the file type by inputting "*.hex"	×	×
57	Bug that the source path cannot be added even if addition is specified by PM plus	–	×
58	Bug in redraw	×	×

No.	Bugs and Changes/Additions to Specifications	Affected Version	
		V2.31	V2.52
		×: Applicable √: Not applicable -: Not relevant	
59	Bug that modification of the address of a label to be snapped is not reflected in snapshot execution	×	×
60	Bug that the deleted break remains	×	×
61	Bug that a 16-bit access event cannot be set for an int variable	×	√
62	Bug that an 8-bit external trigger event cannot be set as a snapshot event	×	√

2. Details of Usage Restrictions

No.1 Bug that a mask value cannot be set in the Event dialog box

[Description]

A mask value cannot be set in a specified range of the address setting area in the Event dialog box. Even if a mask value is set, however, no error or warning message is output. An event is set with the mask ignored.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.30.

No.2 Bug that the wrong error message is output in the Symbol to Address dialog box

[Description]

If an SFR bit is specified in the Symbol to Address dialog box, an error occurs but the wrong error message "F002(f), Illegal expression" is output.

[Workaround]

Check the address of an SFR bit with a map file.

[Correction]

This bug has been corrected in V2.52.

No.3 Bug that no error message is displayed in the Source Move dialog box

[Description]

If the numeric value of a line number in the Source Move dialog box is illegal or omitted, no error message is displayed and the cursor moves to the first line. In addition, even if the line number is greater than the file line number, no error message is output nor does the cursor move.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.30.

No.4 Bug in trace search

[Description]

If cursor is placed after the end frame and the rest of a specified range is searched forward during a trace search, the trace result is not searched from the end frame. Instead, an error message is displayed. Similarly, if cursor is placed before the first frame and the rest of the specified range is searched backward, an error message is displayed (F003(W): Already exceed search region.).

[Workaround]

Place cursor within the search range.

[Correction]

This bug has been corrected in V2.30.

No.5 Bug that the maximum display address of the Assemble window is not displayed

[Description]

The maximum display address "0xFFFF" of the Assemble window is not displayed.

[Workaround]

There is no problem because 0xFFFF is in the SFR area.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.6 Bug that "Coverage" on the Option menu stays valid

[Description]

"Coverage" on the Option menu stays valid even during program execution. Nothing can be set even if selected.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.30.

No.7 Bug that the members of pointers cannot be displayed in the Watch window

[Description]

Even if the members of pointers such as structures and arrays are displayed and saved to the project file, the members are not displayed in the Watch window when the project file is loaded. At this time, the display radix of each member is not displayed.

[Workaround]

There is no workaround.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.8 Bug when mixed display is set in the Source window

[Description]

If mixed display is set in the Source window and the cursor is scrolled downward (in the direction of the end of the file), a redundant scroll occurs. As a result, the displayed line numbers may not be sequential. While the end of the source is displayed, the last part cannot be displayed unless scroll is used during mixed display.

[Workaround]

There is no workaround.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.9 Bug that part of the status is not displayed on screens with less than 800 x 600 resolution

[Description]

Part of the status is not displayed on screens with less than 800 x 600 resolution.

[Workaround]

There is no workaround.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.10 Bug that the Memory Compare Result dialog box cannot be closed with the return key

[Description]

The Memory Compare Result dialog box cannot be closed with the return key even if the default button is "Close".

[Workaround]

Close the dialog box using the mouse.

[Correction]

This bug has been corrected in V2.30.

No.11 Bug related to the Add Link button in the Trace dialog box

[Description]

The Add Link button is disabled when the Trace dialog box is opened, but is enabled when the Event Link dialog box is opened (however, the Add Link button should be disabled because event link cannot be used in the Trace dialog box).

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.30.

No.12 Bug in error message during program execution

[Description]

If the Timer dialog box is opened during program execution, the error message "0302(F): User program is being traced" is displayed twice.

[Workaround]

Read this message as "User program is under execution".

[Correction]

This bug has been corrected in V2.30.

No.13 Bug when an illegal area is included in the Memory Compare dialog box

[Description]

If an illegal area (guard area or area that cannot be mapped) is included in the comparison source address range or destination address range in the Memory Compare dialog box, the error message "F201(f), Memory mapping error" is displayed. If the OK button is clicked, the Memory Compare dialog box disappears.

[Workaround]

Do not include an illegal area.

[Correction]

This bug has been corrected in V2.30.

No.14 Bug that no error message is output when a project file is read

[Description]

If a project file created with ID78K0-NS V2.02 or earlier is loaded, no error message is displayed and the file is ignored.

[Workaround]

Create a project file with V2.03.

[Correction]

This bug has been corrected in V2.30.

No.15 Bug that no error message is displayed even if an I/O protect setting is made

[Description]

No error message is displayed even if an area that is not in the target memory is set to I/O protected.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.30.

No.16 Bug that the object is also loaded in the Download dialog box

[Description]

The object is also loaded if HEX file is specified and it is specified to load only symbol information in the Download dialog box.

[Workaround]

There is no workaround.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.17 Bug that the 201st (320th) and subsequent characters are not displayed

[Description]

The number of characters that can be input in a line in the Source window, Assemble window, or watch-related windows is up to 200 (319 in V2.30) . The 201st (320th in V2.30) and subsequent characters are not displayed.

[Workaround]

There is no workaround.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.18 Bug that 178K Series devices cannot be selected

[Description]

If device files only for the 178K Series are installed, 178K devices cannot be selected and the ID78K0-NS cannot be started.

[Workaround]

Install device files for the 78K0 Series as dummy files. As a result, 178K Series devices can also be selected.

[Correction]

This bug has been corrected in V2.03.

No.19 Bug that an error occurs if an SFR name of 7 characters or longer is input in the Assemble window

[Description]

An error occurs if an SFR name of 7 characters or longer is input in the Assemble window.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.30.

No.20 Bug that mapping cannot be performed when the reduced internal ROM area is used for target mapping

[Description]

Mapping cannot be performed when the internal ROM area is reduced and the reduced area is used for target mapping.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.03.

No.21 Bug that the software break function cannot be used

[Description]

If a project file is read while the performance board (IE-78K0-NS-PA) is not mounted on the IE-78K0-NS, the software break function cannot be used.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.30.

No.22 Bug that the debugger cannot display a source file

[Description]

The debugger cannot display a source file that includes a comment starting with a 2-byte character (e.g. Kanji character) at the start line of the assembler source file.

(**Note** Because this bug is caused by 2-byte codes, it occurs only in Japanese-version products.)

[Workaround]

Insert a single-byte code such as a space in the comment at the start line of the assembler source file so that it does not start with a 2-byte character.

[Correction]

This bug has been corrected in V2.30.

No.23 Bug that a breakpoint to the same address as the defined symbol value cannot be set

[Description]

If valid EQU symbols are defined only in an assembler source file, a breakpoint to the same address as the defined symbol value cannot be set.

[Workaround]

Take workarounds such as defining EQU symbols in a header file so that they can be referenced by all the assembler source files.

[Correction]

This bug has been corrected in V2.52.

No.24 Bug that the pointer variable value cannot be displayed correctly in the Variable window

[Description]

The pointer variable value that indicates the void type cannot be displayed correctly in the Variable window.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.30.

No.25 Bug that an error occurs if a load module is downloaded again

[Description]

An error occurs if a load module that is read by a project file is downloaded again from the file list on the [File] menu immediately after a project file is read.

[Workaround]

A load module is downloaded by reading a project file. To read the value of the load module again, either use the [File] → [Download] menu, or read the same project file again.

[Correction]

This bug has been corrected in V2.30.

No.26 Bug that the display may become illegible if the right/left arrow key is used to scroll the area

[Description]

When there is insufficient space in the data value display/setting area (in the SFR or Register window, etc.), if the right/left arrow key is used to scroll the area, the display in the data value display/setting area may become illegible.

[Workaround]

Expand the size of the window before operating.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.27 Bug that a break point cannot be set if a file name that includes a “-“ (minus) or “+” (plus) exists in a source file

[Description]

If a file name that includes a “-“ (minus) or “+” (plus) exists in a source file, a break point cannot be set in the debugger.

[Workaround]

Change the file name so that it does not include a “-“ (minus) or “+” (plus).

[Correction]

This item has been included in the ID78K0-NS V2.52 user’s manual as a caution on use.

No.28 Bug that the debugger is abnormally terminated

[Description]

In the debugger specifications, if there is a script file with the same name as the load module to be downloaded and with the extension “.tcl”, the script is automatically executed immediately before downloading. If the program to download the load module is written in a script, the download loops and the debugger is abnormally terminated.

[Workaround]

Change the script file name to one that does not have the same name as a load module file name if the script file should not automatically be executed immediately before downloading. In addition, do not write the instruction to download the load module to the script file that should automatically be executed immediately before downloading.

[Correction]

This item has been included in the ID78K0-NS V2.52 user’s manual as a caution on use.

No.29 Bug that the last line is not displayed in the Coverage-Efficiency View dialog box

[Description]

The last line is not displayed in the Coverage-Efficiency View dialog box. The last line is hidden behind the horizontal scroll bar when an item consisting of 21 characters or more is included and the total number of items exceeds 12 in the survey list. (This bug occurs only in the English Windows environment.)

[Workaround]

Add one or more dummy items at the end of the list.

[Correction]

Regard this as a usage restriction.

No.30 Bug that the source contents are not displayed in the Source Window

[Description]

The source files in a folder whose name ends with a 2-byte character may not be displayed in the Source window. (The window in which no source files are displayed is displayed.)

[Workaround]

Do not use folders whose name ends with a 2-byte character.

[Correction]

This bug has been corrected in V2.30.

No.31 Bug in search file function in Source Search dialog box

[Description]

The search file function cannot be used in the Source Search dialog box.

[Workaround]

There is no workaround.

[Correction]

This function is not supported in V2.52.

No.32 Bug that the display in the Watch and Local window is incorrect when an array is declared as a function argument

[Description]

When an attempt is made to reference the contents of an array from the Watch or Local window when an array is declared as a function argument, the incorrect memory location is displayed.

[Workaround]

When receiving (referencing) an array variable as the function argument, do not declare the array as the argument. Instead, declare a pointer and make a pointer access.

[Correction]

This bug has been corrected in V2.52.

No.33 Bug that all traces are executed if the trace includes a snap shot event

[Description]

All traces are executed even if a conditional trace is selected by setting a snap shot event. Consequently, the result of the snap shot event will be included in all traces. If another conditional trace (such as zone trace or qualify trace) is set, all traces are not executed but the results of the conditional trace and snap shot event can be obtained.

[Workaround]

Set a dummy conditional trace when setting a snap shot event.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.34 Bug that the program cannot be edited when the Source window is in mixed-display mode

[Description]

The program in the disassembled program section cannot be edited if the Source window is in mixed display mode.

[Workaround]

Edit in the Assemble window.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.35 Bug that files with the same name cannot be displayed in the Source window

[Description]

The source file in the folder set in the source path under [Option] → [Debugger Option] is opened by priority in the Source window.

C:\TEST\TEST.C ← Source file of C:\TEST\TEST.LMF
C:\TEST\TEST.LMF

D:\TEST\TEST.C ← Source file of D:\TEST\TEST.LMF
D:\TEST\TEST.LMF

C:\TEST\ is set in the source path under [Option] → [Debugger Option].

At this time, C:\TEST\TEST.LMF is displayed even if D:\TEST\TEST.LMF is opened from [File] → [Download].

[Workaround]

There is no workaround.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.36 Bug that a dummy RRM is disabled in the SFR area

[Description]

Dummy RRM (real-time RAM monitor function) is disabled in the SFR area and in the SFR area.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.52.

No.37 Bug that the memory search is aborted

[Description]

If the memory search target address is in a non-mapped area or SFR area, the memory search is aborted.

[Workaround]

Ensure that the search range is not in a non-mapped area or SFR area.

[Correction]

This bug has been corrected in V2.52.

No.38 Bug that symbols with a func#var (func: Function name, var: Variable name) format cannot be converted into addresses

[Description]

Symbols with a func#var (func: Function name, var: Variable name) format cannot be converted into addresses.

[Workaround]

Only convert var (variable name). When there is a variable with the same name as a static variable in a function, convert the variable when the PC exists in that function.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.39 Bug that the variable display in the Watch window may not be valid

[Description]

When a local variable is registered in the Watch window and the valid area (within the scope) of the registered variable is executed, the registered variable display may remain gray and the valid display (display in black) may not be output. In addition, when variables whose count exceeds the size of the Watch window are registered immediately after the project file is read, the variable display may remain gray and the valid display (display in black) may not be output even if the window is scrolled.

[Workaround]

Perform an operation to re-plot the variable such as by selecting the variable area. Even if the variable display remains gray, there is no problem with the displayed value.

[Correction]

This bug has been corrected in V2.52.

No.40 Bug that target mapping can be executed even if the target memory does not actually exist

[Description]

Target mapping can be executed even if the target memory does not actually exist (including when the power is off).

[Workaround]

There is no workaround.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.41 Bug that the LMF file created in the IAR's compiler or assembler may not be able to be read

[Description]

The LMF file created in the IAR's compiler or assembler may not be able to be read.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.30.

No.42 Bug that a run may not stop

[Description]

When [Run] → [Slowmotion] is selected while Go & Go is under execution, the program does not stop even if [Run] → [Stop] is selected (or the stop button is clicked).

[Workaround]

There is no workaround.

[Correction]

Regard this as a usage restriction.

No.43 The memory bank function is not supported

[Description]

The memory bank function is not supported.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.52.

No.44 Bug that the OSD display is garbled in the μ PD178048

[Description]

The data transferred to the CROM using the μ PD178048 is garbled when it is displayed.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.31.

No.45 The non-map and SFR areas are displayed as "00" in the Memory window

[Description]

The non-map and SFR areas, which should be displayed as "??", are displayed as "00" in the Memory window.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.31.

No.46 Bug that the operation speed of the debugger is extremely degraded when a variable is registered in the Watch window

[Description]

The operation speed of the ID78K0-NS is extremely degraded when a variable that is assigned to other than the internal RAM space is registered in the Watch window and executed.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.31.

No.47 Bug that the trace information is not displayed correctly

[Description]

If the Trace window is opened and trace information is displayed during program execution, there may be a frame that cannot be displayed correctly.

[Workaround]

Click the [Refresh] button in the Trace window to update the trace information after program execution has stopped.

[Correction]

This bug has been corrected in V2.31.

No.48 Bug in saving a display file in the Watch window

[Description]

If data is added to the Watch window by specifying the address, the data cannot be saved correctly even if the display file saving command is executed.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.52.

No.49 Bug that the default internal RAM size is not correct in the μ PD780001

[Description]

The default size selected in the internal RAM setting field in the Configuration dialog box of the μ PD780001 is smaller than that of the actual device.

[Workaround]

Re-set the IRAM size setting in the Configuration dialog box to "256byte" when the ID78K0-NS is activated, and then restart the debugger.

[Correction]

This bug has been corrected in V2.52.

No.50 Bug that the stack setting cannot be modified

[Description] (This is the restriction for IE-78K0-NS Executer V2.0 or earlier)

The stack setting cannot be modified if an internal RAM size smaller than that of the device is set.

[Workaround]

Set the internal RAM to a size larger than that of the actual device.

[Correction]

This bug has been corrected in V2.52.

No.51 Bug that the IRAM setting does not operate correctly in the Configuration dialog box

[Description] (This is the restriction for IE-78K0-NS Executer V2.0 or later)

The default IRAM size is fixed and the size set in the IRAM setting field in the Configuration dialog box does not take effect.

[Workaround]

There is no workaround.

[Correction]

This bug has been corrected in V2.52.

No.52 Bug that the display digit of the bit variable and bit field is wrong in the Watch window

[Description]

If both a bit variable and bit field are displayed in the Watch window, the digit is not displayed as 1 digit, but as 16 digits (in binary, not 0b1 but 0b0000000000000001). The contents of data are correct.

[Workaround]

There is no workaround.

[Correction]

Regard this as a usage restriction.

No.53 Bug that a read-only project file can be overwritten

[Description]

Project files (*.prj, *.pri) can be overwritten depending on the OS even if the file attribute is set to Read-only. In Windows XP, an error is output when attempting to overwrite the file, but the file can be overwritten in Windows 2000.

[Workaround]

There is no workaround.

[Correction]

Regard this as a usage restriction.

No.54 Bug that Help does not open in the Trace window even if the F1 key is pressed

[Description]

The Help window is not displayed when the F1 key is pressed while no trace result is displayed, such as immediately after activation of the debugger. This is because the Help window can be opened by the F1 key only in the window on which the caret is placed, and the caret cannot be moved if there are no trace results.

[Workaround]

Open the Help window by selecting [Current Window Help] under the Help menu.

[Correction]

Regard this as a usage restriction.

No.55 Bug that the active project cannot be switched correctly in PM plus

[Description]

When both PM plus and the ID are activated and the active project is switched by PM plus, if the activated project does not include the project file (.pri) of the debugger, the load module loaded by the previous active project is not reset and remains as is.

[Workaround]

Select "Execute symbol reset after download" in the Debugger Settings dialog box by selecting [Debugger settings...] on the [Tool] menu of PM plus before creating a project.

[Correction]

Regard this as a usage restriction.

No.56 Bug in changing the file type by inputting "*.hex"

[Description]

Even if the display of the extension select area is changed by specifying the file type as "*.hex" in the file selection area in a file selection dialog box, the change is not reflected internally.

[Workaround]

Specify the file type in the extension select area.

[Correction]

Regard this as a usage restriction.

No.57 Bug that the source path cannot be added even if addition is specified by PM plus

[Description]

When a project is saved in the ID78K0-NS and then a new source path is added in PM plus, the new source path cannot be added to the debugger.

[Workaround]

Add the source path manually.

[Correction]

Regard this as a usage restriction.

No.58 Bug in redraw

[Description]

If the caret is moved when the Memory window or Coverage window is activated, the line on which the caret was placed cannot be redrawn normally.

[Workaround]

Redraw can be performed by moving the caret to a line on which redraw was not performed.

[Correction]

Regard this as a usage restriction.

No.59 Bug that modification of the address of a label to be snapped is not reflected in snapshot execution

[Description]

When a label is specified for a memory address subject to snap in the Snap Shot dialog box, if the address of the registered label is changed in line with a user program modification, the address before modification is snapped.

[Workaround]

When the address of the registered label is changed, re-register the snap information using the Change button.

[Correction]

Regard this as a usage restriction.

No.60 Bug that the deleted break remains

[Description]

When an 8-bit external sense event (when using the IE-78K0-NS-A) is set as a break event and a break occurs at the event, the program stops at the event even if the break event is inactivated or deleted later.

[Workaround]

There is no workaround.

[Correction]

Regard this as a usage restriction.

No.61 Bug that a 16-bit access event cannot be set for an int variable

[Description]

A 16-bit access event whose data value is larger than 0xFF (8 bits) cannot be set for an int variable.

[Workaround]

There is no workaround.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.

No.62 Bug that an 8-bit external trigger event cannot be set as a snapshot event

[Description]

When an 8-bit external trigger event is set as a snapshot event, an error message is displayed and the setting cannot be performed.

[Workaround]

There is no workaround.

[Correction]

This item has been included in the ID78K0-NS V2.52 user's manual as a caution on use.