[Released on the Web]

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CcnvCA78K0 C Source Code Converter:

Tool for Assistance in Porting from the CA78K0 and CC78K0 Compilers

for the 78K0 to the CC-RL Compiler for the RL78 Family

Outline

The CcnvCA78K0 C source code converter will be released on the Web. This program converts files of C source code created in a development environment with the CA78K0 or CC78K0 compiler for the 78K0 microcontrollers into files of C source code for the CC-RL compiler for the RL78 family. We supply the product free of charge.

1. Outline of the Product

The CcnvCA78K0 is a C source code converter that converts the following types of files into C source code for the CC-RL compiler for the RL78 family.

> Applicable C source programs

CcnvCA78K0 accepts C source programs created in development environments with the following C compilers as inputs.

- CA78K0 C compiler for the 78K0 groups

- CC78K0 C compiler for the 78K0 groups

The CcnvCA78K0 converter converts extended specifications in C source programs for the CA78K0 and CC78K0 compilers into extended specifications for CC-RL. The CcnvCA78K0 converter then generates files of C source code for CC-RL.

This product supports the porting of C source files from the CA78K0 or CC78K0 compiler to CC-RL. Since we do not guarantee the correct operation of programs converted by CcnvCA78K0, be sure to check the operation of the C source files after conversion.

Device-dependent statements such as assembler instructions and those related to the memory map or SFRs cannot be converted. For such statements, check the operation after manually changing them to suit the RL78 family product you intend to use.

Refer to the User's Manual for details of CcnvCA78K0. The information will be available from July 5.

https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ut3684

CcnvCA78K0 C Source Converter User's Manual

2. Features

CcnvCA78K0 is easy to run from the command line of Windows®.

Example of execution:

```
> CcnvCA78K0 input.c -o=output.c
```

Remarks:

CCnvCA78K0: Command to run CcnvCA78K0 input.c: Name of input file output.c: Name of generated file



Example of input file: input.c

```
#pragma sfr
char c;
void main(void)
```

{

Example of generated file: output.c

```
/* CA78K0 C Source Converter V1.00.00.02 [09 Mar 2016] */
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//[CcnvCA78K0]
#include "iodefine.h"
//[CcnvCA78K0] #pragma sfr
char c;
void main(void)
  c = P0;
}
```

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#pragma sfr is commented out of the generated file (C source program for CC-RL) and #include
"iodefine.h" is added.

The names of SFRs are not converted. Change them by hand after seeing messages that the given language specifications are dependent on the 78K0.

3. Operating Environment

Windows® 10 (32-bit edition, 64-bit edition) Windows® 8.1 (32-bit edition, 64-bit edition) Windows® 7 (32-bit edition, 64-bit edition)

4. Obtaining the Product

Obtain the converter from the URL below. This product will be available from July 5.

https://www.renesas.com/convert-cc-compiler

Downloadable executable file for CcnvCA78K0: CcnvCA78K0.exe



Revision History

		Description	
Rev.	Date	Page	Summary
1.00	Jul. 01, 2016	-	First edition issued

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