

# RI Series

Real-Time Operating System

User's Manual: Message

Target Tool

RI78V4

RI850V4

RI850MP

RI600V4

RI600PX

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# How to Use This Manual

**Readers** This manual is intended for users who design and develop application systems using RH850 family, RX family, V850 family, RL78 family, and 78K0R microcontrollers products.

**Purpose** This manual is intended for users to understand the functions of real-time OS "RI Series" (RI78V4 V2.xx.xx, RI850V4 V2.xx.xx, RI600V4, RI600PX, RI850V4 V1.xx.xx, RI850MP and RI78V4 V1.xx.xx) manufactured by Renesas Electronics, described the organization listed below..

**Organization** This manual consists of the following major sections.

**CHAPTER 1 GENERAL**  
**CHAPTER 2 MESSAGE FORMATS**  
**CHAPTER 3 MESSAGES**

**How to Read This Manual** It is assumed that the readers of this manual have general knowledge in the fields of electrical engineering, logic circuits, microcontrollers, C language, and assemblers.

To understand the hardware functions of the RH850 family, RX family, V850 family, RL78 family, and 78K0R microcontrollers.

-> Refer to the **User's Manual** of each product.

**Conventions**

Data significance:	Higher digits on the left and lower digits on the right
<b>Note:</b>	Footnote for item marked with <b>Note</b> in the text
<b>Caution:</b>	Information requiring particular attention
<b>Remark:</b>	Supplementary information
Numeric representation:	Decimal ... XXXX Hexadecimal ... 0xXXXX
Prefixes indicating power of 2 (address space and memory capacity):	K (kilo) $2^{10} = 1024$ M (mega) $2^{20} = 1024^2$

## Related Documents

The related documents indicated in this publication may include preliminary versions. However, preliminary versions are not marked as such.

Document Name		Document No.
RI Series	Start	R20UT0751E
	Message	This manual
RI850V4 V2.xx.xx	Coding	R20UT2889E
	Debug	R20UT2890E
	Analysis	R20UT2891E
RI600V4	Coding	R20UT0711E
	Debug	R20UT0775E
	Analysis	R20UT2185E
RI600PX	Coding	R20UT0964E
	Debug	R20UT0950E
RI78V4 V2.xx.xx	Coding	R20UT3375E
	Debug	R20UT3374E
	Analysis	R20UT3373E
RI850V4	Coding	R20UT0515E
	Debug	R20UT0754E
	Analysis	R20UT0517E
RI850MP	Coding	R20UT0519E
	Debug	R20UT0755E
RI78V4 V1.xx.xx	Coding	R20UT0511E
	Debug	R20UT0753E
	Analysis	R20UT0513E

**Caution** The related documents listed above are subject to change without notice. Be sure to use the latest edition of each document when designing.

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## CHAPTER 1 GENERAL

This manual describes the message that tools offered in real-time OS package output. The message is output to Output panel or Message dialog box, etc..

**Remark** See "CubeSuite+ Integrated Development Environment User's Manual: Message" for Output panel or Message dialog box.

## CHAPTER 2 MESSAGE FORMATS

This chapter describes the output formats of messages.

### 2.1 When Not Using RI600V4, RI600PX Configurator

The output format when not using the RI600V4, RI600PX Configurator is as follows.

#### (1) When the file name and line number information are included

```
file-name (line-number) : message-type component-number message-number : message
```

#### (2) When the file name and line number information aren't included

```
message-type component-number message-number : message
```

**Remarks 1.** Following contents are output as the continued character string.

message-type: 1 alphabetic character (C, E, F, M, W)

component-number: 11

message-number: 5 digits

2. See "CubeSuite+ Integrated Development Environment User's Manual: Message" for details about the message-type, the component-number and the message-number.

### 2.2 When Using RI600V4, RI600PX Configurator

The output format when RI600V4, RI600PX Configurator is operated is as follows.

#### (1) When the file name and line number are included

```
file-name:(line-number) : message-number (message-type) message
```

#### (2) When the line number aren't included

```
file-name:(0) : message-number (message-type) message
```

#### (3) When the file name and line number aren't included

```
-----:(0) : message-number (message-type) message
```

**Remarks 1.** Following contents are output as the character string.

message-number: 0 + 4 digits

message-type: 1 alphabetic character

2. See "CubeSuite+ Integrated Development Environment User's Manual: Message" for details about the message-type and the message-number.

## CHAPTER 3 MESSAGES

This chapter describes the messages displayed by tools offered in real-time OS package.



### 3.1 Internal Error

**Table 3-1. Internal Error**

C1110030	[Message]	Required process is not supported.
	[Explanation]	An internal error has occurred.
	[Action by User]	Please contact your vendor or Renesas Electronics.

## 3.2 Fatal Errors

Table 3-2. Fatal Errors

E1110001	[Message]	Cannot load DLL.
	[Explanation]	The package is not correctly installed, or a required file has been deleted.
	[Action by User]	Please reinstall the real-time OS package.
E1110010	[Message]	Cannot connect to the debugger.
	[Explanation]	Cannot communicate with debugger for unknown reason.
	[Action by User]	Please contact your vendor or Renesas Electronics.
E1110020	[Message]	RTOS is not loaded.
	[Explanation]	The target program is not loaded in the debugger, or there is no real-time OS incorporated in the target program.
	[Action by User]	Load the target program into the debugger. If there is no real-time OS incorporated in the target program, do so.
E1110031	[Message]	RTOS data may be corrupted.
	[Explanation]	The real-time OS information is incorrect (e.g. runaway program).
	[Action by User]	Make sure that the real-time OS information of the target program is not corrupt.
E1110032	[Message]	Queue information may be corrupted.
	[Explanation]	The real-time OS information is incorrect (e.g. runaway program).
	[Action by User]	Make sure that the real-time OS information of the target program is not corrupt.
E1120040	[Message]	Realtime OS used in the project is not installed.
	[Explanation]	The real-time OS used by the existing project was not found (for example, it may have been uninstalled).
	[Action by User]	Make sure that the real-time OS is correctly installed.
E1120041	[Message]	RI850MP supports the 32 register mode only.
	[Explanation]	Displayed when the register mode of the project that uses RI850MP is changed besides 32-register mode.
	[Action by User]	Set the register mode to 32-register mode.
E1120050	[Message]	Saving realtime OS build setting options failed.
	[Explanation]	Could not obtain save information because the internal information is corrupt.
	[Action by User]	Create the project again, or re-install the plug-in.
E1132000	[Message]	Illegal keyword or syntax error.
	[Explanation]	The keyword is illegal or there is a description error.
	[Action by User]	Check the description format of the system configuration file or command file.

E1132001	[Message]	[RI78V4 V1.xx.xx] Keyword (xxx) is too longer than 24 characters.
	[Explanation]	[RI78V4 V1.xx.xx] The keyword (xxx) is longer than the maximum value of 24 characters permitted for that keyword.
	[Action by User]	[RI78V4 V1.xx.xx] Specify a keyword (object name) of 24 characters or less.
	[Message]	[RI78V4 V2.xx.xx] [RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Keyword (xxx) is too longer than 255 characters.
	[Explanation]	[RI78V4 V2.xx.xx] [RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] The keyword (xxx) is longer than the maximum value of 255 characters permitted for that keyword.
	[Action by User]	[RI78V4 V2.xx.xx] [RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Specify a keyword (xxx) of 255 characters or less.
	[Message]	[RI850MP] Keyword (xxx) is too longer than (yyy) characters.
	[Action by User]	[RI850MP] Specify a keyword (xxx) of yyy characters or less.
E1132002	[Message]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] Integer overflow.
	[Explanation]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] The specified numeric value is too large to be processed within CF78V4.
	[Action by User]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] Specify a numeric value within the 32-bit data range.
	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Integer overflow (xxx).
	[Explanation]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] The specified numeric value is too large to be processed within CF850V4.
	[Action by User]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Specify a numeric value within the 32-bit data range.
E1132003	[Message]	Keyword (xxx) is not defined.
	[Action by User]	Check the definition of the keyword.
E1132004	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Memory area (xxx) cannot be specified for system stack.
	[Action by User]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Specify the memory area that can be specified.
	[Message]	[RI850MP] Memory area (xxx) cannot be specified for system stack.
	[Action by User]	[RI850MP] Review the format of system stack information SYS_STK.

E1132010	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] One line is too long.
	[Action by User]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Revise the number of characters of each item and do 1 line within 16384 character.
E1133005	[Message]	Keyword (xxx) is already defined.
	[Explanation]	The keyword (xxx) is already defined.
	[Action by User]	Define a keyword only once.
E1133006	[Message]	Keyword (xxx) cannot be defined in DOMAIN.
E1133007	[Message]	Keyword (xxx) cannot be defined out of DOMAIN.
E1133008	[Message]	DOMAIN allocation is defined more than defined DOMAIN.
E1133009	[Message]	DOMAIN allocation is defined less than defined DOMAIN.
E1133010	[Message]	Number of PE is not defined.
E1133017	[Message]	Task is not defined on any DOMAIN.
E1133018	[Message]	Task is not defined.
E1133019	[Message]	Too many Keyword (xxx) is defined.
	[Explanation]	There are too many definitions of keyword (xxx).
	[Action by User]	Decrease the number of definitions of keyword so as not to exceed the maximum.
E1133020	[Message]	Too few Keyword (xxx) is defined.
E1133030	[Message]	Task (xxx) that is specified in task exception routine is undefined.
	[Action by User]	Make sure whether a specified task exists.
E1133031	[Message]	Task exception routine for the one task is multiple defined (xxx).
	[Action by User]	Check the definition of the corresponding task exception routine.
E1134000	[Message]	Illegal maximum value (xxx).
	[Action by User]	Check the specified value.
E1134001	[Message]	Illegal exception code (xxx).
	[Action by User]	Check the specified exception code.
E1134002	[Message]	Exception code (xxx) is out of range.
	[Action by User]	Check the specified exception code.
E1134003	[Message]	Number of maximum handler is out of range (xxx).
	[Action by User]	Check the number of interrupt handlers.
E1134004	[Message]	Undefined Memory area (xxx).
	[Action by User]	Check the definition of memory area.
E1134005	[Message]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] One of TA_HLNG or TA_ASM must be defined as attribute in xxx.
	[Action by User]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] Specify either TA_HLNG or TA_ASM.
	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] One of TA_HLNG or TA_ASM must be defined as attribute in Keyword (xxx).

E1134006	[Message]	Attribute (yyy) is not defined together in Keyword (xxx).
	[Action by User]	Specify either xxx or yyy.
E1134007	[Message]	One of TA_TFIFO or TA_TPRI must be defined as attribute in Keyword (CRE_MTX).
	[Explanation]	Specify either TA_TFIFO or TA_TPRI.
E1134008	[Message]	One of TA_MFIFO or TA_MPRI must be defined as attribute in xxx.
	[Action by User]	Specify either TA_MFIFO or TA_MPRI.
E1134009	[Message]	Neither TA_INHERIT and TA_CEILING may not be specified in this version.
	[Action by User]	Check the specified.
E1134011	[Message]	Total memory size (xxx) that is allocated in the memory area (yyy) exceeds defined size (zzz).
	[Action by User]	Reduce the total size of the memory area (yyy) so as not to exceed the maximum size.
E1134016	[Message]	Start address (xxx) is not 2 bytes alignment.
	[Action by User]	Check the start address.
E1134018	[Message]	Illegal memory area (xxx).
E1134020	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] xxx(yyy) bigger than maximum 255 was set.
	[Action by User]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Check the value of keyword.
	[Message]	[RI850MP] xxx (yyy) bigger than maximum (zzz) was set.
	[Action by User]	[RI850MP] Check the value of keyword.
E1134021	[Message]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] cycctim (xxx) smaller than minimum (yyy) was set.
	[Action by User]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] For the activation cycle for the cyclic handler, specify a value from 1 to 4294967295 (0xffffffff).
	[Message]	[RI850MP] xxx (yyy) smaller than minimum (zzz) was set.
E1134022	[Message]	Memory area size of fixed-sized memory pool (= block count (xxx) *block size (yyy) ) is out of range.
	[Action by User]	Specify the memory block count and block size so that the memory area size of the fixed-sized memory pool (calculation result of memory block count x block size) will fall within the range of 4 to 65534 (0xffff).
E1134025	[Message]	Attribute (xxx) is not supported.
	[Action by User]	Check a specifiable attribute.
E1134026	[Message]	Attribute (xxx) is not defined (yyy).
	[Action by User]	Check the attribute and then specify xxx.
E1134030	[Message]	xxx (yyy) is out of range.
	[Action by User]	Check the set value.

E1134100	[Message]	Illegal OS name (xxx).
	[Action by User]	Check the OS name.
E1134101	[Message]	Illegal OS version (xxx).
	[Action by User]	Check the OS version.
E1134102	[Message]	The number of lines exceeded the maximum.
	[Action by User]	Set the number of lines of the file to no more than 1000000 lines.
E1134110	[Message]	Stack check flag is illegal.
	[Action by User]	Check the specified stack check flag.
E1134131	[Message]	Illegal system stack size(xxx)
	[Action by User]	Set the system stack size to a value from 0 to 65534 (0xffff).
E1134132	[Message]	Illegal maximum task priority (xxx).
	[Action by User]	Set the value of maximum task priority information (MAX_PRI) to a value from 1 to 15.
E1134134	[Message]	Exception code for system timer (xxx) is out of range.
	[Action by User]	Check the exception code for system timer.
E1134135	[Message]	Number of maximum interrupt factor is out of range (xxx).
	[Action by User]	Check the number of maximum interrupt factor.
E1134136	[Message]	Cyclic time of system time is illegal (xxx).
	[Action by User]	Check the specified value at cyclic time.
E1134302	[Message]	Task extension information is out of range (exinf).
	[Action by User]	Specify a value from 0x0 to 0xffff for the task extension information (ext_inf).
E1134303	[Message]	Function address (xxx) is out of range.
E1134304	[Message]	Task stack size is out of range (xxx).
	[Action by User]	Set the task stack size to a value from 0 to 65534 (0xffff).
E1134401	[Message]	Initial semaphore number (xxx) is out of range.
	[Action by User]	Set the number of initial resources for semaphore to a value from 0 to 127.
E1134901	[Message]	Block size (xxx) of fixed-sized memory pool is out of range.
	[Action by User]	Specify a value from 4 to 65534 (0xffff) for the block size of the fixed-sized memory pool.
E1134902	[Message]	Block count (xxx) of fixed-sized memory pool is out of range.
	[Action by User]	Specify a value from 1 to 16383 (0x3fff) for the memory block count of the fixed-sized memory pool.
E1135100	[Message]	The interrupt source name (xxx) is not defined in the device file.
	[Action by User]	Check the specified value at cyclic time.
E1135500	[Message]	Illegal calculation.
	[Action by User]	Check the specifiable range of values.
E1136000	[Message]	Name (xxx) is already used in Keyword (xxx).
	[Action by User]	Check the specified keyword.
E1136001	[Message]	Exception code is reserved (xxx).

E1136002	[Message]	Memory area (xxx) is already defined.
	[Action by User]	Check the specified memory area.
E1136009	[Message]	Name (xxx) is already used.
	[Action by User]	Specify an object name that is not in use.
E1136010	[Message]	[RI78V4 V1.xx.xx] Symbol too long (max 30). [RI78V4 V2.xx.xx] Symbol too long (max 4095).
	[Explanation]	[RI78V4 V1.xx.xx] The symbol name or object name is longer than the maximum value of 30 characters permitted for those names. [RI78V4 V2.xx.xx] The symbol name or object name is longer than the maximum value of 4095 characters permitted for those names.
	[Action by User]	[RI78V4 V1.xx.xx] Specify a symbol name or object name of 30 characters or less. [RI78V4 V2.xx.xx] Specify a symbol name or object name of 4095 characters or less.
E1136011	[Message]	Symbol (xxx) is already used.
	[Explanation]	The symbol name (xxx) is already defined.
	[Action by User]	Specify a symbol name that is not in use.
E1136012	[Message]	Address (xxx) is out of range.
	[Explanation]	The specified address (xxx) is outside the specifiable range.
	[Action by User]	Set the address value to a value from 0x0 to 0xffff.
E1136013	[Message]	Illegal value (xxx).
	[Action by User]	Check the specifiable range of values.
E1136250	[Message]	DOMAIN name (xxx) is not defined.
E1136251	[Message]	DOMAIN with a PE (xxx) is not defined.
E1136252	[Message]	SYS_STK necessary to a PE (xxx) is not defined.
E1136300	[Message]	Task priority (xxx) is higher than max priority (yyy).
	[Action by User]	Check the specified task priority.
E1136301	[Message]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] Task priority (xxx) is higher than the highest system priority 15.
	[Explanation]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] The specified initial task priority (pri) is higher than the highest system priority 15.
	[Action by User]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] Set the value of the initial task priority to a value from 1 to 15.
	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] [RI850MP] Task priority (xxx) is higher than the highest system priority (yyy).

E1136302	[Message]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] Task priority (xxx) is lower than the lowest system priority 1.
	[Explanation]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] The specified initial task priority (xxx) is lower than the lowest system priority 1.
	[Action by User]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] Set the value of the initial task priority (xxx) to a value from 1 to 15.
	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] [RI850MP] Task priority (xxx) is lower than the lowest system priority (yyy).
E1136401	[Message]	Initial semaphore number (xxx) is bigger than maximum semaphore number (yyy).
	[Action by User]	Check the specified initial semaphore number.
E1137101	[Message]	The interrupt source name (xxx) cannot be used when not defined in the device file (not set -cpu option).
	[Action by User]	Check the specified device file or exception factor.
E1137103	[Message]	Handlers that has same exception code in the same PE cannot be defined.
	[Action by User]	Check the specified exception factor.
E1137104	[Message]	Handlers that has same exception code (xxx) in the system cannot be defined.
E1137105	[Message]	SVC Handlers that has same function code (xxx) in the system cannot be defined.
	[Action by User]	Check the specified function code.
E1137106	[Message]	The Number of interrupt handler(%d) is bigger than the number of interrupt factor(%d).
	[Action by User]	Check the specified function code.
E1137107	[Message]	The exception code that is out of range is already defined.
	[Action by User]	Check the specified function code.
E1150000	[Message]	The file <i>filename</i> does not exist.
	[Action by User]	Specify a correct file name.
E1150001	[Message]	Reading analysis data failed. The file type is invalid.
	[Explanation]	The format specified for the file is incorrect or the file may have been corrupted.
	[Action by User]	Specify the correct format for the file containing the results of analysis and read it again.
E1151000	[Message]	Could not operate the hardware trace method. Check whether the debugging tool has a trace function.
	[Action by User]	Check whether the debugging tool has a trace function.
E1151001	[Message]	Could not switch the trace of task analyzer on. The point trace is full.
	[Action by User]	When using the debug tool to specify an event, invalidate or delete the point trace.
E1151100	[Message]	Could not find the target to jump.
	[Explanation]	Symbol information was not included.
	[Action by User]	Use a load module which has symbol information.
E1152000	[Message]	The value is illegal.
	[Explanation]	The input value includes illegal characters.
	[Action by User]	Specify characters for which input is allowed.



E1152001	[Message]	The value is out of range.
	[Explanation]	The input value exceeds the range of values that can be input.
	[Action by User]	Check the range of values that can be input.
O1001 (E)	[Message]	Syntax error.
	[Action by User]	Check your syntax.
O1002 (E)	[Message]	Illegal xxx --> <yyy>
	[Explanation]	The setting for definition name xxx is illegal.
	[Action by User]	yyy specified in xxx is invalid. Please revise.
O1003 (E)	[Message]	Unknown token --> <xxx>
	[Explanation]	The specified strings xxx cannot be recognized as a definition name.
	[Action by User]	Correct the definition name for xxx.
	[Message]	Unknown xxx --> <yyy>
	[Explanation]	The specified strings yyy as xxx cannot be recognized as a keyword.
	[Action by User]	Correct the keyword for yyy.
O1004 (E)	[Message]	xxx's ID number is too large. --> <yyy>
	[Explanation]	ID number yyy specified in xxx[] is too large.
	[Action by User]	The ID number must be no greater than the number of objects that have been defined.
O1005 (E)	[Message]	Task[xxx]'s priority is too large. --> <yyy>
	[Explanation]	task[xxx].priority setting yyy is greater than system.priority.
	[Action by User]	Set task[],priority to a value no greater than system.priority.
O1006 (E)	[Message]	clock.IPL is too large.--> <xxx>
	[Explanation]	The clock.IPL setting is greater than the system.system_IPL setting.
	[Action by User]	Set clock.IPL to a value no greater than system.system_IPL.
O1007 (E)	[Message]	System timer's vector <xxx> conflict
	[Explanation]	A interrupt_vector[xxx] has already defined for the CMT's vector when one of CMT0, CMT1, CMT2, or CMT3 is specified for clock.timer.
	[Action by User]	Delete the interrupt_vector[], or change the clock.timer setting.
O1009 (E)	[Message]	<xxx> is already defined.
	[Explanation]	xxx is multiply defined.
	[Action by User]	Define xxx once only.
O1010 (E)	[Message]	xxx[yyy] is already defined.
	[Explanation]	The ID number is multiply defined in yyy object xxx.
	[Action by User]	Ensure that ID numbers do not overlap.
O1013 (E)	[Message]	Zero divide error
	[Explanation]	Zero division expression.
	[Action by User]	Do not divide by zero.

O1015 (E)	[Message]	Can't specify F switch when os_int=YES.
	[Explanation]	You cannot specify fast interrupts (pragma_switch=F) for the kernel interrupt handler (os_int=YES).
	[Action by User]	Do not set the pragma_switch to F for kernel interrupts. Set to a non-kernel interrupt (os_int=NO) for fast interrupts.
O1016 (E)	[Message]	interrupt_vector[xxx].os_int must be YES.
	[Explanation]	Relocatable interrupt cannot be used as non-kernel interrupt (os_int=NO) when the kernel interrupt mask level (system.system_IPL) is 15.
	[Action by User]	Set os_int=YES for all variable vector definitions (interrupt_vector[]).
O1018 (E)	[Message]	mailbox[xxx].max_pri(yyy) is bigger than system.message_pri(zzz).
	[Explanation]	The mailbox[xxx].max_pri setting yyy is greater than the system.message_pri setting zzz.
	[Action by User]	Specify a value for mailbox[].max_pri that is no greater than system.message_pri.
O1019 (E)	[Message]	Neither system.tic_num or system.tic_deno is 1.
	[Action by User]	Set 1 to either system.tic_num or tic_deno as CCC at least.
O1020 (E)	[Message]	Symbols other than NO and NO are defined simultaneously.
	[Action by User]	You cannot specify symbols other than NO and NO simultaneously.
O1022 (E)	[Message]	semaphore[xxx].initial_count is bigger than semaphore[xxx].max_count
	[Explanation]	The initial_count setting in semaphore[xxx] is greater than the max_count setting.
	[Action by User]	Set initial_count to no greater than max_count.
O1023 (E)	[Message]	Size of memorypool[xxx] is larger than VTMAX_AREASIZE
	[Explanation]	The size of fixed-sized memory pool must be lower than or equal to VTMAX_AREASIZE (256MB).
	[Action by User]	Set the value of memorypool[xxx].siz_block * meorypool[xxx].num_block to no greater than 256 MB.
O1024 (E)	[Message]	variable_memorypool[xxx].max_memsize is larger than 192MB-12
	[Explanation]	variable_memorypool.max_memsize must be lower than or equal to "192MB - 12".
	[Action by User]	Set variable_memorypool[xxx].max_memsize to no more than 192 MB - 12.
O1025 (E)	[Message]	mutex[xxx].ceilpri is bigger than system.priority.
	[Explanation]	mutex.ceilpri must be lower than or equal to system.priority.
	[Action by User]	Set mutex[].ceilpri to no greater than system.priority.
O1026 (E)	[Message]	xxx is not a multiple of y.
	[Explanation]	xxx must be multiple of y.
	[Action by User]	Set xxx to a multiple of y.
O1027 (E)	[Message]	max_msgsz (xxx) is larger than mbf_size(yyy) - 4 .
	[Explanation]	The setting of xxx for message_buffer[].max_msgsz exceeds the message_buffer[].mbf_size - 4 setting of yyy - 4.
	[Action by User]	Set message_buffer[].max_msgsz to no greater than message_buffer[].mbf_size - 4.

O1028 (E)	[Message]	variable_memorypool[xxx].max_memsize(yyy) is too large. (Max.=zzz)
	[Explanation]	The value yyy specified for variable_memorypool[xxx].max_memsize is too large. The maximum value of the specified pool size (variable_memorypool[[]].heap_size) is zzz.
	[Action by User]	Set max_memsize to no more than zzz.
O1029 (E)	[Message]	Time tick is too long.
	[Explanation]	The base clock cycle time decided by system.tic_num and system.tic_deno is too long.
	[Action by User]	Make the base clock cycle time shorter, or lower clock.timer_clock.
O1030 (E)	[Message]	Time tick is too short.
	[Explanation]	The base clock cycle time decided by system.tic_num and system.tic_deno is too short.
	[Action by User]	Make the base clock cycle time longer, or higher clock.timer_clock.
O1032 (E)	[Message]	cyclic_handler.phs_counter is larger than interval_counter.
	[Action by User]	Set cyclic_hand.phs_counter to no greater than interval_counter.
O1033 (E)	[Message]	start_address must be smaller than end_address.
	[Action by User]	When numeric value is specified as both memory_object.start_addrsss and endaddress, set start_address and end_address that it satisfies the fomula "start_address < and_address".
O1034 (E)	[Message]	ACC and NOACC can't be specified at the same time.
	[Action by User]	Do not specify both ACC and NOACC at the same time.
O1035 (E)	[Message]	task[xxx].domain_num(=yyy) is bigger than maxdefine.max_domain(=zzz).
	[Explanation]	The setting of yyy for task[xxx].domain_num exceeds the maxdefine.max_domain setting of zzz.
	[Action by User]	Set ask[xxx].domain_num to no greater than maxdefine.max_domain.
O2001 (E)	[Message]	Not enough memory.
	[Explanation]	There is not enough memory to execute cfg600 or cfg600px.
	[Action by User]	Please contact your vendor or Renesas Electronics.
O2003 (E)	[Message]	Illegal argument --> <xxx>
	[Explanation]	Failed to recognize xxx due to error in startup format.
	[Action by User]	Check the startup format.
O2004 (E)	[Message]	Can't write open <xxx>
	[Explanation]	The file "xxx" cannot be generated.
	[Action by User]	Check the read-only attribute of the cfg600 or cfg600px output directory and output file.
O2005 (E)	[Message]	Can't open <xxx>
	[Explanation]	The file cannot be accessed in the directory indicated by environment variable "LIB600".
	[Action by User]	Make sure that the environment variable "LIB600" setting and directory pointed to by LIB600 are correct.

O2006 (E)	[Message]	Can't open version file.
	[Explanation]	The version file cannot be found in the current directory or the directory indicated by environment variable "LIB600".
	[Action by User]	Make sure that the environment variable "LIB600" setting and directory pointed to by LIB600 are correct.
O2007 (E)	[Message]	Can't open default configuration file.
	[Explanation]	The default.cfg file cannot be found in the current directory or the directory indicated by environment variable "LIB600".
	[Action by User]	Make sure that the environment variable "LIB600" setting and directory pointed to by LIB600 are correct.
O2008 (E)	[Message]	Can't open configuration file <xxx>
	[Explanation]	The specified system configuration file "xxx" cannot be accessed.
	[Action by User]	Check for the system configuration file settings.
O2009 (E)	[Message]	xxx is not defined
	[Explanation]	(1) xxx is not defined. (2) The definition of the object of the displayed number leaks. This error occurs with O1004 (E).
	[Action by User]	(1) Define xxx. (2) Correct the ID number that caused error 01004 (E).
	[Message]	You must define SYMBOL
	[Action by User]	Specify symbol.
	[Message]	You must define NUMBER
	[Action by User]	Specify numeric value.
O2010 (E)	[Message]	Initial start task is not defined.
	[Explanation]	There is no task[ ] definition with task[].initial_start=ON.
	[Action by User]	Define at least one task specified as "ON" in task[].initial_start.
O2011 (E)	[Message]	Environment variable "LIB600" not prepared.
	[Explanation]	Environment variable LIB600 is not defined.
	[Action by User]	Set environment variable "LIB600".
O2013 (E)	[Message]	memory_object is not defined.
	[Explanation]	Any memory object is not defined.
	[Action by User]	Define at least one memory object.

3.3 Abort Errors

Table 3-3. Abort Errors

F1131000	[Message]	Option (xxx) is not specified.
	[Action by User]	Make sure whether the configuration file input to an option is specified.
F1131001	[Message]	Cannot open device file.
	[Action by User]	Make sure that the device file exists.
F1131003	[Message]	File name (xxx) is duplicated.
F1131008	[Message]	Option (xxx) needs parameters.
	[Action by User]	Check the option.
F1131009	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] The parameters (xxx) is illegal.
	[Action by User]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Check the parameter.
	[Message]	[RI850MP] Illegal parameters (xxx).
	[Action by User]	[RI850MP] Check the parameter.
F1131010	[Message]	The option (xxx) is illegal.
	[Action by User]	Check the option.
F1131011	[Message]	Illegal format is in command file.
	[Action by User]	Check the contents of a command file.
F1131014	[Message]	Path or file name is too long (xxx).
F1131015	[Message]	File (xxx) is not a supported file to convert.
F1131016	[Message]	A described device (xxx) is not supported.
F1131017	[Message]	The size of the command (xxx) file is too big.
F1131020	[Message]	Cannot open command file.
	[Explanation]	The specified command file could not be opened. Otherwise, the specified command file name is not valid.
	[Action by User]	Check whether the specified command file exists or whether the command file name is correct.
F1131021	[Message]	[RI78V4 V1.xx.xx] Usage:CF78V4 [@command file] [-i <SIT file>   -ni] [-dc <C header file>   -ndc] [-da <ASM header file>   -nda] [-V] [-help] <CF file> [RI78V4 V2.xx.xx] Usage: CF78V4 [@command file] [-cpu <Name>] [-devpath=<Path>] [-i <SIT file>   -ni] [-dc <C header file>   -ndc] [-da <ASM header file>   -nda] [-V] [-help] <CF file>
	[Explanation]	Because the specified activation option is not correct, CF78V4 could not be executed.
	[Action by User]	Check the activation option.
F1131502	[Message]	Option (xxx) is multiple defined.
	[Action by User]	Check the contents of a command file.

F1131505	[Message]	Output file names are the same (xxx).
	[Explanation]	The output files (system information table file, system information header file (for C language) or system information header file (for assembly languages)) are specified with the same file name "xxx".
	[Action by User]	Check if the file names specified with the -i, -dc, and -da options are the same.
F1131506	[Message]	It is necessary to specify the device file in the case of outputting entry file.
	[Action by User]	Check the specified the output option of the entry file or the device file.
F1133011	[Message]	It failed to convert file (xxx).
F1133020	[Message]	Syntax too complicated.
	[Action by User]	Check the description of the system configuration file.
F1139002	[Message]	Unknown device file format.
	[Action by User]	Check the device file.
F1139011	[Message]	File read error (xxx).
	[Explanation]	File (xxx) cannot be read.
	[Action by User]	Check if the specified file exists. Alternatively, check whether the file name is correct or whether the file name is specified with the valid number of characters.
F1139013	[Message]	File write error (xxx).
	[Explanation]	File (xxx) could not be opened.
	[Action by User]	Check whether the file is write-enabled or whether the disk is full. Alternatively, check if the number of characters for the specified file name or output file name converted to an absolute path is valid.
F1139015	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Cannot execute Preprocessor.
	[Action by User]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Check the pass of a preprocessor and the option.
	[Message]	[RI850MP] Cannot execute Preprocessor (xxx).
F1139016	[Message]	Too many errors.
F1139017	[Message]	File name has already existed (xxx).
F1139020	[Message]	Not enough memory.
	[Explanation]	The available memory is insufficient.
	[Action by User]	The available memory is insufficient. The available memory is insufficient to analyze the activation option/command file or to analyze the system configuration file. Increase the memory capacity available for CF78V4 by quitting any applications that are not in use.
F1139100	[Message]	[RI850V4 V2.xx.xx] PEID(xxx) is not defined in the device file.
	[Explanation]	[RI850V4 V2.xx.xx] The specified PEID(xxx) is not defined in the device file.
	[Action by User]	[RI850V4 V2.xx.xx] Check the PE number as specified "-peid" option.

F1139101	[Message]	[RI850V4 V2.xx.xx] Cannot read xxx in the device file.
	[Explanation]	[RI850V4 V2.xx.xx] Cannot read the information "xxx" from the device file.
	[Action by User]	[RI850V4 V2.xx.xx] Renews the latest device file or reconsiders the specified option.
F1139900	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] CF850V4 internal error (xxx).
	[Action by User]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Please contact your vendor or your Renesas Electronics overseas representative.
	[Message]	[RI850MP] CF850MP internal error (xxx).
	[Action by User]	[RI850MP] Please contact your vendor or your Renesas Electronics overseas representative.

### 3.4 Information

**Table 3-4. Information**

M1120010	[Message]	The path that the output folder before it was changed has been set Include-Path of Build-Tool. Do you want to remove the path from Include-Path of Build-Tool?
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## 3.5 Warnings

Table 3-5. Warnings

O3001 (W)	[Message]	xxx is already defined.
	[Explanation]	xxx has already been defined. The definition is ignored.
	[Action by User]	Resolve the multiple definition.
O3002 (W)	[Message]	The maximum ID of the object is larger than maxdefine.xxx
	[Explanation]	The value of the maximum ID of the defined object is selected.
O4001 (W)	[Message]	xxx is not defined
	[Explanation]	The definition of xxx is omitted; the setting in the default system configuration file is used.
	[Action by User]	Check "RI600V4, RI600PX Real-Time Operating System User's Manual: Coding" for the default system configuration file settings.
O4005 (W)	[Message]	Timer counter value is less than your setting time.
	[Explanation]	It is not possible to create the specified base clock interrupt cycle time (system.tic_num / system.tic_deno [ms]) accurately. The actual base clock interrupt cycle time is shorter than the specified cycle.
	[Action by User]	Consider making the base clock interrupt cycle time longer.
W1110010	[Message]	Debugger is running.
	[Explanation]	The debugger was operated while it was running.
	[Action by User]	Stop the debugger before operating.
W1110020	[Message]	RTOS is not initialized.
	[Explanation]	The real-time OS was manipulated before initialization.
	[Action by User]	Click [Run to Position Where Real Time OS Information Can Be Obtained], and complete the initialization of the real-time OS.
W1120010	[Message]	Path name or File name is illegal. Input the character that can be used.
	[Explanation]	The path or file name contains illegal characters.
	[Action by User]	Use valid characters.
W1120011	[Message]	The number of characters that exceeds 259 characters cannot be specified.
	[Explanation]	More than 259 characters have been specified.
	[Action by User]	Reduce the number of characters.
W1120012	[Message]	The number of characters that exceeds 247 characters cannot be specified.
	[Explanation]	More than 247 characters have been specified.
	[Action by User]	Reduce the number of characters.
W1120020	[Message]	The system information table file name is the same as the entry file name.
	[Action by User]	Change the file name.
W1120021	[Message]	The system information table file name is the same as the service call table file name.
	[Action by User]	Change the file name.
W1120030	[Message]	The specified passing doesn't exist.
	[Action by User]	Change to an existing path name.

W1120031	[Message]	The specified path is read-only.
	[Explanation]	The specified path is write-protected.
	[Action by User]	Change the writeable attribute of the specified path to "enabled".
W1120032	[Message]	The specified passing doesn't exist.
	[Action by User]	Change to an existing file name.
W1131013	[Message]	Command file is nested. @Option in the command file is ignored.
	[Explanation]	The command file is nested. The @ option in the command file has been ignored. This is a message notifying the user of a warning. It is normal.
W1131504	[Message]	Option (xxx) became invalid by Option (yyy).
W1132008	[Message]	Not supported Keyword (xxx) is changed to a comment.
W1132009	[Message]	Temporary exception code (yyy) was established as key word (xxx).
W1133015	[Message]	Service call (xxx) already defined.
W1134013	[Message]	Reserved ID (xxx) must be 0 in this version (0 assumed).
	[Explanation]	This is a message notifying the user of a warning. It is normal.
W1134014	[Message]	Defined value (xxx) in the reserved area is ignored.
	[Explanation]	This is a message notifying the user of a warning. It is normal.
W1134015	[Message]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] Value is aligned to 2 bytes (result : xxx).
	[Explanation]	[RI78V4 V1.xx.xx] [RI78V4 V2.xx.xx] The specified value is not a 2-byte boundary value. CF78V4 rounds up the specified value to a 2-byte boundary value (number) to continue processing. This is a message notifying the user of a warning. It is normal.
	[Message]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] Value is aligned to 4 bytes (result:xxx).
	[Explanation]	[RI850V4 V1.xx.xx] [RI850V4 V2.xx.xx] This is a message notifying the user of a warning. It is normal.
	[Message]	[RI850MP] Value is aligned to yyy bytes (result:xxx).
	[Explanation]	[RI850MP] This is a message notifying the user of a warning. It is normal.
W1134016	[Message]	The value (xxx) is assumed to be a set value.
	[Explanation]	This is a message notifying the user of a warning. It is normal.
W1136003	[Message]	Maximum number to make object must be a number of defined object or maximum number of ID (xxx assumed).
	[Explanation]	This is a message notifying the user of a warning. It is normal.
W1136005	[Message]	The maximum priority level "xxx" is defined. But set the maximum priority level to "yyy" because the task with initial priority "pri2" is defined.
	[Explanation]	"xxx" is defined as the maximum task priority; however, since "yyy" is already specified as the initial task priority, the system continues processing assuming that "yyy" has been specified as the maximum task priority. This is a message notifying the user of a warning. It is normal.

W1136010	[Message]	The CPU type is multiple defined in CF file and -cpu option (xxx assumed).
	[Explanation]	This is a message notifying the user of a warning. It is normal.
W1136011	[Message]	The register mode is multiple defined in CF file and -reg option (xxx assumed).
	[Explanation]	This is a message notifying the user of a warning. It is normal.
W1136012	[Message]	The value of "maxint" differs from the value defined in the device file(the value defined in the device file is used).
	[Explanation]	This is a message notifying the user of a warning. It is normal.
W1136013	[Message]	Memory area(xxx) is not used, so information of (xxx) is not output.
	[Explanation]	This is a message notifying the user of a warning. It is normal.
W1137003	[Message]	The interval time of a cyclic handler was rounded up (result:xxx).
	[Explanation]	This is a message notifying the user of a warning. It is normal.
W1137004	[Message]	The initial interval time of a cyclic handler was rounded up (result:xxx).
	[Explanation]	This is a message notifying the user of a warning. It is normal.
W1139000	[Message]	Path or file is not exist (xxx).
W1151000	[Message]	The setup of the property is not reflected in the load module. Build the program, it will be solved this warning.
	[Explanation]	Since the program was not rebuilt after the property was set or modified, the load module is not consistent with the property setting. This message will be shown, for example, when a load module for hardware tracing is loaded after the property of the program has been changed to software tracing mode.
	[Action by User]	Build the program.

## Revision Record

Rev.	Date	Description	
		Page	Summary
1.00	Oct 01, 2011	-	First Edition issued
1.01	Apr 01, 2012	7	Added the following: RI600PX
		9	Added the following: Internal error (C1110030)
		17	Added the following: Fatal error (O1032 (E), O1033 (E), O1035 (E))
		19	Added the following: Fatal error (O2013 (E))
		23	Added the following: Warning (O3002 (W))
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		25	Added the following: Warning (W1151000)
1.03	Mar 03, 2014	-	Added the following: RI850V4 V2.xx.xx
1.04	Mar 25, 2015	-	Added the following: RI78V4 V2.xx.xx
1.05	Sep 30, 2015	-	Added the following: Fatal Error (F1139100, F1139101)

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Message

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