

### Real-Time OSes M3T-MR32R Upgraded to Their V.3.50 Release 1

We have upgraded the M3T-MR32R real-time OSes for the M32R family MCUs as follows:

- the M3T-MR32RK real-time OS development kit: from V.3.40 Release 1 to V.3.50 Release 1
  - the M3T-MR32RS real-time OS mass-production contract: from V.3.40 Release 1 to V.3.50 Release 1
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## 1. Descriptions of Upgrade

### 1.1 Functions Introduced

- (1) A kernel for an FPU provided which can handle a floating-point status register (equipped in the M32180, for example) as a context.
- (2) Managing data items and kernels in the M3T-MR32R placeable in a space extending over 16 MB.
- (3) The `def_cyc` system call added.
- (4) The memory to be used selectable between the one reserved by the OS (M3T-MR32R) and the other reserved by the user while a `cre_tsk`, `cre_mbx`, `cre_mbf`, `def_exc`, `cre_mpf`, or `cre_mpl` system call is functioning.

### 1.2 Problems Fixed

The following known problems have been fixed:

- (1) On using the `ref_tsk` system call  
For details, see MAEC TOOL NEWS "A Note on Real-Time OS M3T-MR32R" issued on February 16, 2002.
- (2) On using the `iwup_tsk`, `iset_flg`, `isig_sem`, `isnd_msg`, `irel_blf`, and `visnd_msg` system calls
- (3) On using the `irel_blf` system call  
For details of (2) and (3), see MAEC TOOL NEWS "Notes on Real-Time OS M3T-MR32R" issued on April 1, 2002.

- (4) On using the `tsnd_mbf` and `snd_mbf` system calls  
For details, see MAEC TOOL NEWS "Notes on Real-Time OS M3T-MR32R" issued on September 1, 2002.
- (5) On the description of the "Definition respective maximum numbers of items" section in the configuration file  
For details, see MAEC TOOL NEWS "A Note on Real-Time OS M3T-MR32R" issued on October 16, 2002.
- (6) On using the `vcre_mbx` system call for creating mailboxes with priority  
For details, see MAEC TOOL NEWS "A Note on Using Real-Time OS M3T-MR32R" issued on January 16, 2003.

## 2. **How to Upgrade the Current Products and Order the Upgraded Ones**

M3T-MR32R is a product for a special user.

If you need the latest version of Real-time OS with online, please ask [csc@renesas.com](mailto:csc@renesas.com).

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