

RTOBJECT_IMPL::initialize() 内のECの作成方法の修正

2012/02/04 03:54 - n-ando

ステータス:	終了	開始日:	2012/02/04
優先度:	通常	期日:	
担当者:	fsi-takahashi	進捗率:	100%
カテゴリ:		予定工数:	0.00時間
対象バージョン:			
説明			
RTOBJECT_IMPL::initialize() 内のECの作成方法の修正を行う。			
主な変更点は			
<ul style="list-style-type: none"> • RTC個別configファイル(プライベートオプション)に従ってECを作成する。 • 個別configが指定されない場合、rtc.confのオプション(グローバルオプションと呼ぶ)に従ってECを作る • プライベートオプションではECは複数個作成することができる (execution_contextオプション) • 個別config内で、ECのタイプ毎、ECのインスタンス名ごとにオプションを指定できる • 個別configでECをnone指定するとECを1つも作成・アタッチせずにRTCを起動できるようにする • 個別configではECに名前をつけることができる • 同名のECがすでに存在する場合、新たにインスタンスを作成せずに既存のものを使う • サンプルのrtc.confとcompoennt.confに変更を反映させる。 			
<pre> ===== # execution context options ===== # # Periodic type ExecutionContext # # Other availabilities in OpenRTM-aist # # - ExtTrigExecutionContext: External triggered EC. It is embedded in # OpenRTM library. # - OpenHRPExecutionContext: External triggered parallel execution # EC. It is embedded in OpenRTM # library. This is usually used with # OpenHRP3. # - RTPreemptEC: Real-time execution context for Linux # RT-preemptive pathed kernel. # - ArtExecutionContext: Real-time execution context for ARTLinux # (http://sourceforge.net/projects/art-linux/) # exec_cxt.periodic.type: [specify periodic type EC] # # The execution cycle of ExecutionContext # # exec_cxt.periodic.rate: [Hz] # # Event driven execution context (not implemented yet) # # exec_cxt.event_driven.type: [specify event driven type EC] # # # State transition mode settings YES/NO # # Default: YES (efault setting is recommended.) # # Activating, deactivating and resetting of RTC performs state # transition. Some execution contexts might execute main logic in # different thread. If these flags are set to YES, activation, </pre>			

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# deactivation and resetting will be performed synchronously. In other
# words, if these flags are YES,
# activation/deactivation/resetting-operations must be returned after
# state transition completed.
#
# "sync_transition" will set synchronous transition flags to all other
# synchronous transition flags sync_activation/deactivation/reset.
#
# exec_cxt.sync_transition: YES
# exec_cxt.sync_activation: YES
# exec_cxt.sync_deactivation: YES
# exec_cxt.sync_reset: YES
#
#
# Timeout of synchronous state transition [s]
#
# Default: 0.5 [s]
#
# When synchronous transition flags are set to YES, the following
# timeout settings are valid. If "transition_timeout" is set, the
# value will be set to all other timeout of activation/deactivation
# and resetting
#
# exec_cxt.transition_timeout: 0.5
# exec_cxt.activation_timeout: 0.5
# exec_cxt.deactivation_timeout: 0.5
# exec_cxt.reset_timeout: 0.5
#
#
# Specifying Execution Contexts
#
# Default: No default
#
# execution_contexts: None or <EC0>,<EC1>,...
# <EC?>: Ectype(ECname)
#
# RTC can be attached with zero or more Execution
# Contexts. "execution_contexts" option specifies RTC-specific
# attached ECs and its name. If the option is not specified, the
# internal global options or rtc.conf options related to EC will be
# used. If None is specified, no EC will be created.
#
# Availabilities in OpenRTM-aist
#
# - ExtTrigExecutionContext: External triggered EC. It is embedded in
#                               OpenRTM library.
# - OpenHRPExecutionContext: External triggered parallel execution
#                               EC. It is embedded in OpenRTM
#                               library. This is usually used with
#                               OpenHRP3.
# - RTPreemptEC:                Real-time execution context for Linux
#                               RT-preemptive pathed kernel.
# - ArtExecutionContext:        Real-time execution context for ARTLinux
#                               (http://sourceforge.net/projects/art-linux/)
#
# execution_contexts: PeriodicExecutionContext(pec1000Hz), /
#                               PeriodicExecutionContext(pec500Hz)
#
#
# EC specific configurations
#
# Default: No default
#
# Each EC can have its own configuration. Individual configuration can
# be specified by using EC type name or EC instance name. Attached ECs
# would be specified in execution_context option like <EC type
# name>(<EC instance name>), ... EC specific option can be specified

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```
# as follows.
#
# ec.<EC type name>.<option>
# ec.<EC instance name>.<option>
#
# Example:
# ec.PeriodicExecutionContext.sync_transition: NO
# ec.pec1000Hz.rate: 1000
# ec.pec1000Hz.synch_transition: YES
# ec.pec1000Hz.transition_timeout: 0.5
# ec.pec500Hz.rate: 500
# ec.pec500Hz.synch_activation: YES
# ec.pec500Hz.synch_deactivation: NO
# ec.pec500Hz.synch_reset: YES
# ec.pec500Hz.activation_timeout: 0.5
# ec.pec500Hz.reset_timeout: 0.5
```

関連するチケット:

関連している OpenRTM-aist (C++) - 機能 #2349: RTOBJECT_impl::init...

終了

2012/02/04

関係しているリビジョン

リビジョン 674 - 2012/02/16 10:10 - fsi-katami

The method to create EC has been changed. Now zero or more EC can be attached to RTC. Configuration options for EC have been changed changed.
refs #2350

リビジョン 675 - 2012/02/24 18:06 - kurihara

refs #2350

履歴

#1 - 2012/02/16 10:13 - 匿名ユーザー

- ステータスを新規から担当に変更
- 進捗率を0から30に変更

getInheritedECOptions(), getPrivateContextOptions(), getGlobalContextOptions(), getContextOptions(), findExistingEC(), createContexts()の実装

#2 - 2012/02/27 10:30 - fsi-takahashi

- 担当者を匿名ユーザーから fsi-takahashi に変更

#3 - 2012/02/27 10:30 - fsi-takahashi

- ステータスを担当から解決に変更

#4 - 2012/02/27 10:30 - fsi-takahashi

- 進捗率を30から100に変更

#5 - 2012/02/27 10:34 - fsi-takahashi

initialize()の修正完了

#6 - 2012/03/30 18:32 - n-ando

- ステータスを解決から終了に変更