

Problem

How is possible to set the threshold level of RT logs?

Solution

RT logs (==logs that come from RT: kernel or user space) can have one of the following levels (=priorities):

RTLOG_TRACE	2	
RTLOG_DEBUG	3	
RTLOG_INFO	4	=RTLOG_NORMAL (removed with ACS-7.0)
RTLOG_NOTICE	5	
RTLOG_WARNING	6	
RTLOG_ERROR	8	
RTLOG_CRITICAL	9	
RTLOG_ALERT	10	
RTLOG_EMERGENCY	11	

There are two ways to set the threshold level for rtlogs:

- [compile time](#)
- [run time](#)
- [#CDBSetting][Setting initial value in CDB]

Compile time setting of rt logs threshold level

Compile time threshold level can be set by defining (=sending a compile options to the compiler) **RTLOG_LEVEL**. This can be set in the makefile. Here are examples of setting the level for user and kernel space code:

```
USER_CFLAGS = -DRTLOG_LEVEL=0      # for user space
USER_RTAI_CFLAGS = -DRTLOG_LEVEL=0 # for kernel modules (=LKMs)
```

Setting **RTLOG_LEVEL** to 2 or less it means that we will get RT logs with all priorities.

Default value (=if RTLOG_LEVEL is not set) is: **RTLOG_TRACE** (=2) lowest possible! (see [COMP-1342](#))

When RTLOG_LEVEL is set to the certain value code for log messages with priorities lower than one set in RTLOG_LEVEL is not generated, so the performance is improved.

Runtime setting of rt logs threshold level

Runtime threshold level can be set by using **setLevel** method of rtlog component. The current threshold level value can be retrieved using **getLevel** method.

Be aware that compile time level setting of threshold override the runtime setting. With other words, if you set at compile time the level to 5 (=RTLOG_INFO), you can not set at runtime the level lower than this value, and consequently you can not get logs with priorities lower than RTLOG_INFO.

#CDBSetting

Set the initial runtime RT log threshold level in CDB

The initial value of the runtime RT log threshold level can be set in the CDB, in the attribute: **initLogLevel** of RTLOG component.

The default value is 4 (=RTLOG_INFO)!

-- [BogdanJeram](#) - 09 Aug 2007

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