

Cuttle覆盖分析报告

改进的条件判定覆盖分析报告(MCDC), DO-178B A级

Cuttle报告生成器版本: ver4.1

报告生成时间: Mon Jun 24 19:53:44 CST 2013

IDB工程文件目录:

E:\UIP-Kernel\uikernel\ct-A.idb

Cuttle项目

```
|
+----- 总体概要(MCDC): 共5个文件
|       106个真-假判定
|         覆盖数: 95
|         部分覆盖数: 11
|         未覆盖: 0
|       120个条件判定
|         覆盖数: 108
|         部分覆盖数: 12
|         未覆盖: 0
|       0个条件分支
|         覆盖数: 0
|         未覆盖: 0
|       116个覆盖事件
|         覆盖数: 116
|         未覆盖: 0
|
+----- 1. 文件 uip_kernel_alarm.c 目录位置 D:\UIP-Kernel\uikernel\uikernel_original\src
|   |   最后更新时间: Mon Jun 24 09:43:26 CST 2013
|   |   文件校验和: XXXXXX
|   |
|   +----- 文件概要(MCDC): 共9个函数
|   |       29个真-假判定
|   |         覆盖数: 28
|   |         部分覆盖数: 1
|   |         未覆盖: 0
|   |       34个条件判定
|   |         覆盖数: 33
|   |         部分覆盖数: 1
|   |         未覆盖: 0
|   |       0个条件分支
|   |         覆盖数: 0
|   |         未覆盖: 0
|   |       33个覆盖事件
|   |         覆盖数: 33
|   |         未覆盖: 0
|   |
|   +----- 1.1 函数 UIP_GetAlarmBase
|   |   |   StatusType UIP_GetAlarmBase(AlarmType AlarmID, AlarmBaseRefType Info)
|   |   |
|   |   +----- 函数概要(MCDC):
|   |   |       1个真-假判定
|   |   |         覆盖数: 1
|   |   |         部分覆盖数: 0
```

未覆盖: 0
1个条件判定
覆盖数: 1
部分覆盖数: 0
未覆盖: 0
0个条件分支
覆盖数: 0
未覆盖: 0
3个覆盖事件
覆盖数: 3
未覆盖: 0

+----- coverage行 459: 函数入口

{
覆盖

+----- decision行 462: if语句

AlarmID > uipAlarmNumber

T F

01: *t *f(AlarmID > uipAlarmNumber)覆盖

+----- coverage行 464: 函数返回语句

return (E_OS_ID);
覆盖

+----- coverage行 471: 函数返回语句

return (E_OK);
覆盖

+----- 1.2 函数 UIP_GetAlarm

StatusType UIP_GetAlarm(AlarmType AlarmID, TickRefType Tick)

+----- 函数概要(MCDC):

3个真-假判定
覆盖数: 3
部分覆盖数: 0
未覆盖: 0
3个条件判定
覆盖数: 3
部分覆盖数: 0
未覆盖: 0
0个条件分支
覆盖数: 0
未覆盖: 0
4个覆盖事件
覆盖数: 4
未覆盖: 0

+----- coverage行 530: 函数入口

{

```

| | | 覆盖
| | |
| | | +----- decision行 534: if语句
| | | | AlarmID > uipAlarmNumber
| | | |
| | | | T F
| | | | 01: *t *f(AlarmID > uipAlarmNumber)覆盖
| | | |
| | | +----- coverage行 536: 函数返回语句
| | | | return (E_OS_ID);
| | | | 覆盖
| | | |
| | | +----- decision行 544: if语句
| | | | (alarmPtr -> uipAlarmState) == uip_ALARM_OFF
| | | |
| | | | T F
| | | | 01: *t *f((alarmPtr -> uipAlarmState) == uip_ALARM_OFF)覆盖
| | | |
| | | +----- coverage行 549: 函数返回语句
| | | | return (E_OS_NOFUNC);
| | | | 覆盖
| | | |
| | | +----- decision行 553: if语句
| | | | (alarmPtr -> uipAlarmValue) >= ((alarmPtr -> uipCounterPtr) -> uipCtrValue)
| | | |
| | | | T F
| | | | 01: *t *f((alarmPtr -> uipAlarmValue) >= ((alarmPtr -> uipCounterPtr) ->
| | | uipCtrValue))覆盖
| | | |
| | | +----- coverage行 568: 函数返回语句
| | | | return (E_OK);
| | | | 覆盖
| | | |
| | | +----- 1.3 函数 UIP_SetRelAlarm
| | | | StatusType UIP_SetRelAlarm(AlarmType AlarmID, TickType increment, TickType cycle)
| | | |
| | | +----- 函数概要(MCDC):
| | | | 6个真-假判定
| | | | 覆盖数: 6
| | | | 部分覆盖数: 0
| | | | 未覆盖: 0
| | | | 8个条件判定
| | | | 覆盖数: 8
| | | | 部分覆盖数: 0
| | | | 未覆盖: 0
| | | | 0个条件分支
| | | | 覆盖数: 0
| | | | 未覆盖: 0
| | | | 6个覆盖事件
| | | | 覆盖数: 6
| | | | 未覆盖: 0

```

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| | |
| | | +----- coverage行 650: 函数入口
| | | |
| | | | {
| | | | | 覆盖
| | | | |
| | | | +----- decision行 655: if语句
| | | | | AlarmID > uipAlarmNumber
| | | | |
| | | | | T F
| | | | | 01: *t *f(AlarmID > uipAlarmNumber)覆盖
| | | | |
| | | | +----- coverage行 657: 函数返回语句
| | | | | return (E_OS_ID);
| | | | | 覆盖
| | | | |
| | | | +----- decision行 666: if语句
| | | | | (alarmPtr -> uipAlarmState) == uip_ALARM_ON
| | | | |
| | | | | T F
| | | | | 01: *t *f((alarmPtr -> uipAlarmState) == uip_ALARM_ON)覆盖
| | | | |
| | | | +----- coverage行 671: 函数返回语句
| | | | | return (E_OS_STATE);
| | | | | 覆盖
| | | | |
| | | | +----- decision行 675: if语句
| | | | | increment > (((alarmPtr -> uipCounterPtr)
| | | | | -> uipCtrBase) -> maxAllowedValue)
| | | | |
| | | | | T F
| | | | | 01: *t *f(increment > (((alarmPtr -> uipCounterPtr)
| | | | | -> uipCtrBase) -> maxAllowedValue))覆盖
| | | | |
| | | | +----- coverage行 681: 函数返回语句
| | | | | return (E_OS_VALUE);
| | | | | 覆盖
| | | | |
| | | | +----- decision行 685: if语句中的条件表达式
| | | | | (cycle!=0) && ((cycle < ((alarmPtr -> uipCounterPtr) -> uipCtrBase) -> minCycle) ||
| | | | | (cycle > ((alarmPtr -> uipCounterPtr) -> uipCtrBase) -> maxAllowedValue))
| | | | |
| | | | | T F
| | | | | 01: *ttx *fxx((cycle!=0))覆盖
| | | | | *tft *fxx
| | | | | 02: *ttx *tff((cycle < ((alarmPtr -> uipCounterPtr) -> uipCtrBase) ->
| | | | | minCycle))覆盖
| | | | | 03: *tft *tff((cycle > ((alarmPtr -> uipCounterPtr) -> uipCtrBase) ->
| | | | | maxAllowedValue))覆盖
| | | | |
| | | | +----- coverage行 691: 函数返回语句
| | | | | return (E_OS_VALUE);

```

```

|   |   |           覆盖
|   |   |
|   |   | +----- decision行 694: if语句
|   |   |           increment > (((alarmPtr -> uipCounterPtr) -> uipCtrBase) -> maxAllowedValue)
|   |   |           - ((alarmPtr -> uipCounterPtr) -> uipCtrValue)
|   |   |
|   |   |           T    F
|   |   |           01:  *t    *f(increment > (((alarmPtr -> uipCounterPtr) -> uipCtrBase) ->
maxAllowedValue)
|   |   |           - ((alarmPtr -> uipCounterPtr) -> uipCtrValue)))覆盖
|   |   |
|   |   | +----- decision行 712: if语句
|   |   |           (alarmPtr -> uipAlarmValue) <= ((alarmPtr -> uipCounterPtr) -> uipCtrValue)
|   |   |
|   |   |           T    F
|   |   |           01:  *t    *f((alarmPtr -> uipAlarmValue) <= ((alarmPtr -> uipCounterPtr) ->
uipCtrValue))覆盖
|   |   |
|   |   | +----- coverage行 727: 函数返回语句
|   |   |           return (E_OK);
|   |   |           覆盖
|   |   |
|   |   | +----- 1.4 函数 UIP_SetAbsAlarm
|   |   |           StatusType UIP_SetAbsAlarm(AlarmType AlarmID, TickType start, TickType cycle)
|   |   |
|   |   | +----- 函数概要(MCDC):
|   |   |           5个真-假判定
|   |   |           覆盖 数: 5
|   |   |           部分覆盖数: 0
|   |   |           未 覆盖: 0
|   |   |           7个条件判定
|   |   |           覆盖 数: 7
|   |   |           部分覆盖数: 0
|   |   |           未 覆盖: 0
|   |   |           0个条件分支
|   |   |           覆盖 数: 0
|   |   |           未 覆盖: 0
|   |   |           6个覆盖事件
|   |   |           覆盖 数: 6
|   |   |           未 覆盖: 0
|   |   |
|   |   | +----- coverage行 804: 函数入口
|   |   |           {
|   |   |           覆盖
|   |   |
|   |   | +----- decision行 809: if语句
|   |   |           AlarmID > uipAlarmNumber
|   |   |
|   |   |           T    F
|   |   |           01:  *t    *f(AlarmID > uipAlarmNumber)覆盖
|   |   |
|   |   |

```

```

| | +----- coverage行 811: 函数返回语句
| | | return (E_OS_ID);
| | | 覆盖
| | |
| | +----- decision行 820: if语句
| | | (alarmPtr -> uipAlarmState) == uip_ALARM_ON
| | |
| | | T F
| | | 01: *t *f((alarmPtr -> uipAlarmState) == uip_ALARM_ON)覆盖
| | |
| | +----- coverage行 825: 函数返回语句
| | | return (E_OS_STATE);
| | | 覆盖
| | |
| | +----- decision行 829: if语句
| | | start > (((alarmPtr -> uipCounterPtr) -> uipCtrBase) -> maxAllowedValue)
| | |
| | | T F
| | | 01: *t *f(start > (((alarmPtr -> uipCounterPtr) -> uipCtrBase) ->
maxAllowedValue))覆盖
| | |
| | +----- coverage行 834: 函数返回语句
| | | return (E_OS_VALUE);
| | | 覆盖
| | |
| | +----- decision行 838: if语句中的条件表达式
| | | (cycle != 0) && ((cycle < ((alarmPtr -> uipCounterPtr) -> uipCtrBase) -> minCycle)
| | || (cycle > ((alarmPtr -> uipCounterPtr) -> uipCtrBase) -> maxAllowedValue))
| | |
| | | T F
| | | 01: *ttx *fxx((cycle != 0))覆盖
| | | *tft *fxx
| | | 02: *ttx *tff((cycle < ((alarmPtr -> uipCounterPtr) -> uipCtrBase) ->
minCycle))覆盖
| | | 03: *tft *tff((cycle > ((alarmPtr -> uipCounterPtr) -> uipCtrBase) ->
maxAllowedValue))覆盖
| | |
| | +----- coverage行 844: 函数返回语句
| | | return (E_OS_VALUE);
| | | 覆盖
| | |
| | +----- decision行 855: if语句
| | | (alarmPtr -> uipAlarmValue) <= ((alarmPtr -> uipCounterPtr) -> uipCtrValue)
| | |
| | | T F
| | | 01: *t *f((alarmPtr -> uipAlarmValue) <= ((alarmPtr -> uipCounterPtr) ->
uipCtrValue))覆盖
| | |
| | +----- coverage行 869: 函数返回语句
| | | return (E_OK);
| | | 覆盖

```

+----- 1.5 函数 UIP_CancelAlarm

StatusType UIP_CancelAlarm(AlarmType AlarmID)

+----- 函数概要(MCDC):

2个真-假判定

覆盖数: 2

部分覆盖数: 0

未覆盖: 0

2个条件判定

覆盖数: 2

部分覆盖数: 0

未覆盖: 0

0个条件分支

覆盖数: 0

未覆盖: 0

4个覆盖事件

覆盖数: 4

未覆盖: 0

+----- coverage行 925: 函数入口

{
覆盖

+----- decision行 930: if语句

AlarmID > uipAlarmNumber

T F

01: *t *f(AlarmID > uipAlarmNumber)覆盖

+----- coverage行 932: 函数返回语句

return (E_OS_ID);
覆盖

+----- decision行 940: if语句

(alarmPtr -> uipAlarmState) == uip_ALARM_OFF

T F

01: *t *f((alarmPtr -> uipAlarmState) == uip_ALARM_OFF)覆盖

+----- coverage行 945: 函数返回语句

return (E_OS_NOFUNC);
覆盖

+----- coverage行 953: 函数返回语句

return (E_OK);
覆盖

+----- 1.6 函数 uipSystemCounterHandler

VOID uipSystemCounterHandler(VOID)

```

| | +----- 函数概要(MCDC):
| | |
| | |     3个真-假判定
| | |         覆盖 数: 3
| | |         部分覆盖数: 0
| | |         未 覆盖: 0
| | |
| | |     3个条件判定
| | |         覆盖 数: 3
| | |         部分覆盖数: 0
| | |         未 覆盖: 0
| | |
| | |     0个条件分支
| | |         覆盖 数: 0
| | |         未 覆盖: 0
| | |
| | |     2个覆盖事件
| | |         覆盖 数: 2
| | |         未 覆盖: 0
| | |
| | +----- coverage行 1004: 函数入口
| | | {
| | |     覆盖
| | |
| | +----- decision行 1010: for语句
| | |     alarm_index < uipAlarmNumber
| | |
| | |         T    F
| | |     01:  *t    *f(alarm_index < uipAlarmNumber)覆盖
| | |
| | +----- decision行 1014: if语句
| | |     alarmPtr -> uipAlarmState == uip_ALARM_ON
| | |
| | |         T    F
| | |     01:  *t    *f(alarmPtr -> uipAlarmState == uip_ALARM_ON)覆盖
| | |
| | +----- decision行 1018: if语句
| | |     (alarmPtr -> uipCounterPtr) -> uipCtrValue == alarmPtr -> uipAlarmValue
| | |
| | |         T    F
| | |     01:  *t    *f((alarmPtr -> uipCounterPtr) -> uipCtrValue == alarmPtr ->
| | | uipAlarmValue)覆盖
| | |
| | +----- coverage行 1025: 函数结束
| | |     }
| | |     覆盖
| | |
| | +----- 1.7 函数 uipAlarmHandler
| | |     VOID uipAlarmHandler(uip_UINT alarm_index)
| | |
| | +----- 函数概要(MCDC):
| | |     5个真-假判定
| | |         覆盖 数: 4
| | |         部分覆盖数: 1
| | |         未 覆盖: 0

```



```

|   |   |           5个条件判定
|   |   |             覆盖 数: 4
|   |   |             部分覆盖数: 1
|   |   |             未 覆盖: 0
|   |   |           0个条件分支
|   |   |             覆盖 数: 0
|   |   |             未 覆盖: 0
|   |   |           2个覆盖事件
|   |   |             覆盖 数: 2
|   |   |             未 覆盖: 0
|   |   |
|   |   | +----- coverage行 1076: 函数入口
|   |   |           {
|   |   |           覆盖
|   |   |
|   |   | +----- decision行 1083: if语句
|   |   |           alarmPtr -> uipCycle == 0
|   |   |
|   |   |           T     F
|   |   |           01:  *t     *f(alarmPtr -> uipCycle == 0)覆盖
|   |   |
|   |   | +----- decision行 1090: if语句
|   |   |           (alarmPtr -> uipCycle) > (((alarmPtr -> uipCounterPtr) -> uipCtrBase) ->
|   |   | maxAllowedValue) -
|   |   |           ((alarmPtr -> uipCounterPtr) -> uipCtrValue))
|   |   |
|   |   |           T     F
|   |   |           01:  *t     *f((alarmPtr -> uipCycle) > (((alarmPtr -> uipCounterPtr) -> uipCtrBase)
-> maxAllowedValue) -
|   |   |           ((alarmPtr -> uipCounterPtr) -> uipCtrValue)))覆盖
|   |   |
|   |   | +----- decision行 1105: if语句
|   |   |           alarmPtr -> uipCallBack != 0
|   |   |
|   |   |           T     F
|   |   |           01:  *t     *f(alarmPtr -> uipCallBack != 0)覆盖
|   |   |
|   |   | +----- decision行 1111: if语句
|   |   |           alarmPtr -> uipEvent != 0
|   |   |
|   |   |           T     F
|   |   |           01:  *t     *f(alarmPtr -> uipEvent != 0)覆盖
|   |   |
|   |   | +----- decision行 1117: if语句
|   |   |           alarmPtr -> uipAlarmActTaskID != uipIdleTaskID
|   |   |
|   |   |           T     F
|   |   |           01:  *t     f(alarmPtr -> uipAlarmActTaskID != uipIdleTaskID)部分覆盖
|   |   |
|   |   | +----- coverage行 1121: 函数结束
|   |   |           }

```

覆盖

+----- 1.8 函数 uipGeneralCounterHandler

VOID uipGeneralCounterHandler(AlarmType AlarmID)

+----- 函数概要(MCDC):

2个真-假判定

覆盖数: 2

部分覆盖数: 0

未覆盖: 0

3个条件判定

覆盖数: 3

部分覆盖数: 0

未覆盖: 0

0个条件分支

覆盖数: 0

未覆盖: 0

2个覆盖事件

覆盖数: 2

未覆盖: 0

+----- coverage行 1171: 函数入口

{
覆盖

+----- decision行 1179: if语句中的条件表达式

(AlarmID <= uipAlarmNumber) && ((alarmPtr -> uipAlarmState) == uip_ALARM_ON)

T F

01: *tt *fx((AlarmID <= uipAlarmNumber))覆盖

02: *tt *tf(((alarmPtr -> uipAlarmState) == uip_ALARM_ON))覆盖

+----- decision行 1182: if语句

(alarmPtr -> uipCounterPtr) -> uipCtrValue == alarmPtr -> uipAlarmValue

T F

01: *t *f((alarmPtr -> uipCounterPtr) -> uipCtrValue == alarmPtr ->

uipAlarmValue)覆盖

+----- coverage行 1188: 函数结束

}
覆盖

+----- 1.9 函数 uipGetCtrCurrentValue

StatusType uipGetCtrCurrentValue(AlarmType AlarmID, TickRefType Tick)

+----- 函数概要(MCDC):

2个真-假判定

覆盖数: 2

部分覆盖数: 0

未覆盖: 0

2个条件判定
覆盖数: 2
部分覆盖数: 0
未覆盖: 0
0个条件分支
覆盖数: 0
未覆盖: 0
4个覆盖事件
覆盖数: 4
未覆盖: 0

+----- coverage行 1238: 函数入口

{
覆盖

+----- decision行 1242: if语句

AlarmID > uipAlarmNumber

T F

01: *t *f(AlarmID > uipAlarmNumber)覆盖

+----- coverage行 1244: 函数返回语句

return (E_OS_ID);
覆盖

+----- decision行 1252: if语句

(alarmPtr -> uipAlarmState) == uip_ALARM_OFF

T F

01: *t *f((alarmPtr -> uipAlarmState) == uip_ALARM_OFF)覆盖

+----- coverage行 1257: 函数返回语句

return (E_OS_NOFUNC);
覆盖

+----- coverage行 1266: 函数返回语句

return (E_OK);
覆盖

+----- 2. 文件 uip_kernel_event.c 目录位置 D:\UIP-Kernel\uikernel\uikernel_original\src

最后更新时间: Mon Jun 24 09:43:22 CST 2013

文件校验和: XXXXXX

+----- 文件概要(MCDC): 共4个函数

17个真-假判定

覆盖数: 17

部分覆盖数: 0

未覆盖: 0

19个条件判定

覆盖数: 19

部分覆盖数: 0

```
| |         未 覆 盖: 0
| |     0个条件分支
| |         覆 盖 数: 0
| |         未 覆 盖: 0
| |     22个覆盖事件
| |         覆 盖 数: 22
| |         未 覆 盖: 0
```

```
| +----- 2.1 函数 UIP_SetEvent
```

```
| |     StatusType UIP_SetEvent(TaskType TaskID, EventMaskType Mask)
```

```
| | +----- 函数概要(MCDC):
```

```
| |     6个真-假判定
| |         覆 盖 数: 6
| |         部分覆盖数: 0
| |         未 覆 盖: 0
| |     7个条件判定
| |         覆 盖 数: 7
| |         部分覆盖数: 0
| |         未 覆 盖: 0
| |     0个条件分支
| |         覆 盖 数: 0
| |         未 覆 盖: 0
| |     6个覆盖事件
| |         覆 盖 数: 6
| |         未 覆 盖: 0
```

```
| | +----- coverage行 468: 函数入口
```

```
| |     {
| |         覆盖
```

```
| | +----- decision行 474: if语句
```

```
| |     uipSchedulerLock != 0
```

```
| |         T    F
```

```
| |     01:  *t    *f(uipSchedulerLock != 0)覆盖
```

```
| | +----- coverage行 477: 函数返回语句
```

```
| |     return (uip_SCHEDULER_LOCKED);
| |     覆盖
```

```
| | +----- decision行 486: if语句中的条件表达式
```

```
| |     (TaskID < uip_TASK_MAX) && (TaskID >= 0)
```

```
| |         T    F
```

```
| |     01:  *tt    *fx((TaskID < uip_TASK_MAX))覆盖
```

```
| |     02:  *tt    *tf((TaskID >= 0))覆盖
```

```
| | +----- decision行 492: if语句
```

```
| |     ((taskPtr -> uipTaskState) & uip_TASK_STATE_MASK) == SUSPENDED_STATE
```

```

|   |   |           T   F
|   |   |           01: *t   *f(((taskPtr -> uipTaskState) & uip_TASK_STATE_MASK) ==
SUSPENDED_STATE)覆盖
|   |   |
|   |   | +----- coverage行 498: 函数返回语句
|   |   |         return (E_OS_STATE);
|   |   |         覆盖
|   |   |
|   |   | +----- decision行 502: if语句
|   |   |         ((taskPtr -> uipTaskState) & uip_TASK_EXTENDED) == 0
|   |   |
|   |   |           T   F
|   |   |           01: *t   *f(((taskPtr -> uipTaskState) & uip_TASK_EXTENDED) == 0)覆盖
|   |   |
|   |   | +----- coverage行 508: 函数返回语句
|   |   |         return (E_OS_ACCESS);
|   |   |         覆盖
|   |   |
|   |   | +----- decision行 514: if语句
|   |   |         ((taskPtr -> uipTaskState) & uip_TASK_STATE_MASK) == WAITING_STATE
|   |   |
|   |   |           T   F
|   |   |           01: *t   *f(((taskPtr -> uipTaskState) & uip_TASK_STATE_MASK) ==
WAITING_STATE)覆盖
|   |   |
|   |   | +----- decision行 517: if语句
|   |   |         ((taskPtr -> uipWaitEvent) & (taskPtr -> uipSetEvent)) != 0
|   |   |
|   |   |           T   F
|   |   |           01: *t   *f(((taskPtr -> uipWaitEvent) & (taskPtr -> uipSetEvent)) != 0)覆盖
|   |   |
|   |   | +----- coverage行 547: 函数返回语句
|   |   |         return (E_OK);
|   |   |         覆盖
|   |   |
|   |   | +----- coverage行 554: 函数返回语句
|   |   |         return (E_OS_ID);
|   |   |         覆盖
|   |   |
+----- 2.2 函数 UIP_ClearEvent
|   |   |     StatusType UIP_ClearEvent(EventMaskType Mask)
|   |   |
+----- 函数概要(MCDC):
|   |   |     3个真-假判定
|   |   |         覆盖数: 3
|   |   |         部分覆盖数: 0
|   |   |         未覆盖: 0
|   |   |     3个条件判定
|   |   |         覆盖数: 3
|   |   |         部分覆盖数: 0
|   |   |         未覆盖: 0

```

```

| | | 0个条件分支
| | |   覆盖 数: 0
| | |   未 覆盖: 0
| | | 5个覆盖事件
| | |   覆盖 数: 5
| | |   未 覆盖: 0
| | |
| | | +----- coverage行 611: 函数入口
| | |   {
| | |   覆盖
| | |
| | | +----- decision行 616: if语句
| | |   uipNestedInterrupts != 0
| | |
| | |       T   F
| | |   01:  *t   *f(uipNestedInterrupts != 0)覆盖
| | |
| | | +----- coverage行 619: 函数返回语句
| | |   return (E_OS_CALLEVEL);
| | |   覆盖
| | |
| | | +----- decision行 623: if语句
| | |   uipSchedulerLock != 0
| | |
| | |       T   F
| | |   01:  *t   *f(uipSchedulerLock != 0)覆盖
| | |
| | | +----- coverage行 626: 函数返回语句
| | |   return (uip_SCHEDULER_LOCKED);
| | |   覆盖
| | |
| | | +----- decision行 635: if语句
| | |   ((taskCurrentPtr -> uipTaskState) & uip_TASK_EXTENDED) == 0
| | |
| | |       T   F
| | |   01:  *t   *f(((taskCurrentPtr -> uipTaskState) & uip_TASK_EXTENDED) == 0)覆盖
| | |
| | | +----- coverage行 641: 函数返回语句
| | |   return (E_OS_ACCESS);
| | |   覆盖
| | |
| | | +----- coverage行 650: 函数返回语句
| | |   return (E_OK);
| | |   覆盖
| | |
+----- 2.3 函数 UIP_GetEvent
| |   StatusType UIP_GetEvent(TaskType TaskID, EventMaskRefType Mask)
| |
+----- 函数概要(MCDC):
| |   4个真-假判定
| |   覆盖 数: 4

```

```

|   |   |           部分覆盖数: 0
|   |   |           未覆盖: 0
|   |   |   5个条件判定
|   |   |           覆盖数: 5
|   |   |           部分覆盖数: 0
|   |   |           未覆盖: 0
|   |   |   0个条件分支
|   |   |           覆盖数: 0
|   |   |           未覆盖: 0
|   |   |   6个覆盖事件
|   |   |           覆盖数: 6
|   |   |           未覆盖: 0
|   |   |
|   |   | +----- coverage行 712: 函数入口
|   |   |   {
|   |   |   覆盖
|   |   |
|   |   | +----- decision行 717: if语句
|   |   |   uipSchedulerLock != 0
|   |   |
|   |   |           T   F
|   |   |   01:  *t   *f(uipSchedulerLock != 0)覆盖
|   |   |
|   |   | +----- coverage行 720: 函数返回语句
|   |   |   return (uip_SCHEDULER_LOCKED);
|   |   |   覆盖
|   |   |
|   |   | +----- decision行 729: if语句中的条件表达式
|   |   |   (TaskID < uip_TASK_MAX) && (TaskID >= 0)
|   |   |
|   |   |           T   F
|   |   |   01:  *tt   *fx((TaskID < uip_TASK_MAX))覆盖
|   |   |   02:  *tt   *tf((TaskID >= 0))覆盖
|   |   |
|   |   | +----- decision行 735: if语句
|   |   |   ((taskPtr -> uipTaskState) & uip_TASK_STATE_MASK) == SUSPENDED_STATE
|   |   |
|   |   |           T   F
|   |   |   01:  *t   *f(((taskPtr -> uipTaskState) & uip_TASK_STATE_MASK) ==
SUSPENDED_STATE)覆盖
|   |   |
|   |   | +----- coverage行 741: 函数返回语句
|   |   |   return (E_OS_STATE);
|   |   |   覆盖
|   |   |
|   |   | +----- decision行 745: if语句
|   |   |   ((taskPtr -> uipTaskState) & uip_TASK_EXTENDED) == 0
|   |   |
|   |   |           T   F
|   |   |   01:  *t   *f(((taskPtr -> uipTaskState) & uip_TASK_EXTENDED) == 0)覆盖

```

+----- coverage行 751: 函数返回语句

return (E_OS_ACCESS);

覆盖

+----- coverage行 761: 函数返回语句

return (E_OK);

覆盖

+----- coverage行 769: 函数返回语句

return (E_OS_ID);

覆盖

+----- 2.4 函数 UIP_WaitEvent

StatusType UIP_WaitEvent(EventMaskType Mask)

+----- 函数概要(MCDC):

4个真-假判定

覆盖数: 4

部分覆盖数: 0

未覆盖: 0

4个条件判定

覆盖数: 4

部分覆盖数: 0

未覆盖: 0

0个条件分支

覆盖数: 0

未覆盖: 0

5个覆盖事件

覆盖数: 5

未覆盖: 0

+----- coverage行 831: 函数入口

{

覆盖

+----- decision行 836: if语句

uipNestedInterrupts != 0

T F

01: *t *f(uipNestedInterrupts != 0)覆盖

+----- coverage行 839: 函数返回语句

return (E_OS_CALLEVEL);

覆盖

+----- decision行 843: if语句

uipSchedulerLock != 0

T F

01: *t *f(uipSchedulerLock != 0)覆盖


```

+----- coverage行 846: 函数返回语句
|         return (uip_SCHEDULER_LOCKED);
|         覆盖
|
+----- decision行 855: if语句
|         ((taskCurrentPtr -> uipTaskState) & uip_TASK_EXTENDED) == 0
|
|         T    F
|         01:  *t    *f(((taskCurrentPtr -> uipTaskState) & uip_TASK_EXTENDED) == 0)覆盖
|
+----- coverage行 861: 函数返回语句
|         return (E_OS_ACCESS);
|         覆盖
|
+----- decision行 870: if语句
|         ((taskCurrentPtr -> uipSetEvent) & Mask) == 0
|
|         T    F
|         01:  *t    *f(((taskCurrentPtr -> uipSetEvent) & Mask) == 0)覆盖
|
+----- coverage行 893: 函数返回语句
|         return (E_OK);
|         覆盖

```

+----- 3. 文件 uip_kernel_message.c 目录位置 D:\UIP-Kernel\uipkernel\uipkernel_original\src

```

|         最后更新时间: Mon Jun 24 09:43:18 CST 2013
|         文件校验和: XXXXXX
|

```

+----- 文件概要(MCDC): 共8个函数

```

|         30个真-假判定
|         覆盖 数: 27
|         部分覆盖数: 3
|         未 覆盖: 0
|
|         32个条件判定
|         覆盖 数: 29
|         部分覆盖数: 3
|         未 覆盖: 0
|
|         0个条件分支
|         覆盖 数: 0
|         未 覆盖: 0
|
|         30个覆盖事件
|         覆盖 数: 30
|         未 覆盖: 0
|

```

+----- 3.1 函数 UIP_SendMessage

```

|         StatusType UIP_SendMessage(MsgType MsgID, AppDataRef DataRef)
|

```

+----- 函数概要(MCDC):

```

|         14个真-假判定
|         覆盖 数: 13
|         部分覆盖数: 1

```

```
未覆盖: 0
14个条件判定
覆盖数: 13
部分覆盖数: 1
未覆盖: 0
0个条件分支
覆盖数: 0
未覆盖: 0
7个覆盖事件
覆盖数: 7
未覆盖: 0
```

```
+----- coverage行 461: 函数入口
```

```
{
覆盖
```

```
+----- decision行 468: if语句
```

```
MsgID > uipMsgNumber
```

```
T F
```

```
01: *t *f(MsgID > uipMsgNumber)覆盖
```

```
+----- coverage行 470: 函数返回语句
```

```
return (E_OS_ID);
```

```
覆盖
```

```
+----- decision行 476: if语句
```

```
msgPtr -> uipQueueWriteHead == (uip_UCHAR_PTR)DataRef
```

```
T F
```

```
01: *t *f(msgPtr -> uipQueueWriteHead == (uip_UCHAR_PTR)DataRef)覆盖
```

```
+----- coverage行 479: 函数返回语句
```

```
return (uip_COM_BUFFER);
```

```
覆盖
```

```
+----- decision行 483: if语句
```

```
(msgPtr -> uipMsgStatus & uip_MSG_LOCKED) != 0
```

```
T F
```

```
01: *t *f((msgPtr -> uipMsgStatus & uip_MSG_LOCKED) != 0)覆盖
```

```
+----- coverage行 486: 函数返回语句
```

```
return (uip_COM_LOCKED);
```

```
覆盖
```

```
+----- decision行 500: if语句
```

```
msgPtr -> uipMsgType == uip_MSG_UNQUEUED
```

```
T F
```

```
01: *t *f(msgPtr -> uipMsgType == uip_MSG_UNQUEUED)覆盖
```

```

| | |
| | | +----- decision行 502: for语句
| | | | data_size < msgPtr -> uipMsgSize
| | | |
| | | | T F
| | | | 01: *t *f(data_size < msgPtr -> uipMsgSize)覆盖
| | | |
| | | | +----- decision行 513: if语句
| | | | | ((msgPtr -> uipMsgStatus) & uip_MSG_OVERFLOW) == 0
| | | | |
| | | | | T F
| | | | | 01: *t *f(((msgPtr -> uipMsgStatus) & uip_MSG_OVERFLOW) == 0)覆盖
| | | | |
| | | | | +----- decision行 515: for语句
| | | | | | data_size < msgPtr -> uipMsgSize
| | | | | |
| | | | | | T F
| | | | | | 01: *t *f(data_size < msgPtr -> uipMsgSize)覆盖
| | | | | |
| | | | | | +----- decision行 523: if语句
| | | | | | | (uip_UCHAR_PTR)(msgPtr -> uipQueueWriteHead) >=
| | | | | | | (uip_UCHAR_PTR)(msgPtr -> uipQueueEnd)
| | | | | | |
| | | | | | | T F
| | | | | | | 01: *t *f((uip_UCHAR_PTR)(msgPtr -> uipQueueWriteHead) >=
| | | | | | | (uip_UCHAR_PTR)(msgPtr -> uipQueueEnd))覆盖
| | | | | | |
| | | | | | | +----- decision行 539: if语句
| | | | | | | | msgPtr -> uipMsgNotifyType == uip_COM_NOTIFICATION_CALLBACK
| | | | | | | |
| | | | | | | | T F
| | | | | | | | 01: *t *f(msgPtr -> uipMsgNotifyType ==
| | | | | | | | uip_COM_NOTIFICATION_CALLBACK)覆盖
| | | | | | | |
| | | | | | | | +----- decision行 545: if语句
| | | | | | | | | msgPtr -> uipMsgNotifyType == uip_COM_NOTIFICATION_FLAG
| | | | | | | | |
| | | | | | | | | T F
| | | | | | | | | 01: *t *f(msgPtr -> uipMsgNotifyType == uip_COM_NOTIFICATION_FLAG)覆盖
| | | | | | | | |
| | | | | | | | | +----- decision行 550: if语句
| | | | | | | | | | msgPtr -> uipMsgNotifyType == uip_COM_NOTIFICATION_SETEVENT
| | | | | | | | | |
| | | | | | | | | | T F
| | | | | | | | | | 01: *t *f(msgPtr -> uipMsgNotifyType ==
| | | | | | | | | | uip_COM_NOTIFICATION_SETEVENT)覆盖
| | | | | | | | | |
| | | | | | | | | | +----- decision行 553: if语句
| | | | | | | | | | | status != E_OK
| | | | | | | | | | |
| | | | | | | | | | | T F

```

```

| | | 01: *t *f(status != E_OK)覆盖
| | |
| | | +----- coverage行 559: 函数返回语句
| | | |
| | | | return (status);
| | | | 覆盖
| | | |
| | | +----- decision行 563: if语句
| | | |
| | | | msgPtr -> uipMsgNotifyType == uip_COM_NOTIFICATION_ACTIVATETASK
| | | |
| | | | T F
| | | | 01: *t f(msgPtr -> uipMsgNotifyType ==
| | | | uip_COM_NOTIFICATION_ACTIVATETASK)部分覆盖
| | | |
| | | | +----- decision行 566: if语句
| | | | |
| | | | | status != E_OK
| | | | |
| | | | | T F
| | | | | 01: *t *f(status != E_OK)覆盖
| | | | |
| | | | +----- coverage行 572: 函数返回语句
| | | | |
| | | | | return (status);
| | | | | 覆盖
| | | | |
| | | | +----- coverage行 580: 函数返回语句
| | | | |
| | | | | return (E_OK);
| | | | | 覆盖
| | | |
| | | +----- 3.2 函数 UIP_ReceiveMessage
| | | |
| | | | StatusType UIP_ReceiveMessage(MsgType MsgID, AppDataRef DataRef)
| | | |
| | | | +----- 函数概要(MCDC):
| | | | |
| | | | | 9个真-假判定
| | | | | 覆盖数: 9
| | | | | 部分覆盖数: 0
| | | | | 未覆盖: 0
| | | | |
| | | | | 10个条件判定
| | | | | 覆盖数: 10
| | | | | 部分覆盖数: 0
| | | | | 未覆盖: 0
| | | | |
| | | | | 0个条件分支
| | | | | 覆盖数: 0
| | | | | 未覆盖: 0
| | | | |
| | | | | 6个覆盖事件
| | | | | 覆盖数: 6
| | | | | 未覆盖: 0
| | | | |
| | | | +----- coverage行 642: 函数入口
| | | | |
| | | | | {
| | | | | 覆盖
| | | | |
| | | | +----- decision行 650: if语句

```

```

|   |   |           MsgID > uipMsgNumber
|   |   |
|   |   |           T     F
|   |   |           01:  *t     *f(MsgID > uipMsgNumber)覆盖
|   |   |
|   |   | +----- coverage行 652: 函数返回语句
|   |   |           return (E_OS_ID);
|   |   |           覆盖
|   |   |
|   |   | +----- decision行 658: if语句
|   |   |           (uip_UCHAR_PTR)(msgPtr -> uipQueueReadHead) == (uip_UCHAR_PTR)DataRef
|   |   |
|   |   |           T     F
|   |   |           01:  *t     *f((uip_UCHAR_PTR)(msgPtr -> uipQueueReadHead) ==
(uip_UCHAR_PTR)DataRef)覆盖
|   |   |
|   |   | +----- coverage行 661: 函数返回语句
|   |   |           return (uip_COM_BUFFER);
|   |   |           覆盖
|   |   |
|   |   | +----- decision行 665: if语句
|   |   |           ((msgPtr -> uipMsgStatus) & uip_MSG_LOCKED) != 0
|   |   |
|   |   |           T     F
|   |   |           01:  *t     *f(((msgPtr -> uipMsgStatus) & uip_MSG_LOCKED) != 0)覆盖
|   |   |
|   |   | +----- coverage行 668: 函数返回语句
|   |   |           return (uip_COM_LOCKED);
|   |   |           覆盖
|   |   |
|   |   | +----- decision行 682: if语句
|   |   |           msgPtr -> uipMsgType == uip_MSG_UNQUEUED
|   |   |
|   |   |           T     F
|   |   |           01:  *t     *f(msgPtr -> uipMsgType == uip_MSG_UNQUEUED)覆盖
|   |   |
|   |   | +----- decision行 684: for语句
|   |   |           data_size < msgPtr -> uipMsgSize
|   |   |
|   |   |           T     F
|   |   |           01:  *t     *f(data_size < msgPtr -> uipMsgSize)覆盖
|   |   |
|   |   | +----- decision行 697: if语句中的条件表达式
|   |   |           (((msgPtr -> uipMsgStatus) & uip_MSG_OVERFLOW) == 0) &&
((msgPtr -> uipQueueReadHead) == (msgPtr -> uipQueueWriteHead))
|   |   |
|   |   |           T     F
|   |   |           01:  *tt     *fx((((msgPtr -> uipMsgStatus) & uip_MSG_OVERFLOW) == 0))覆盖
|   |   |           02:  *tt     *tf((((msgPtr -> uipQueueReadHead) == (msgPtr ->
uipQueueWriteHead)))覆盖
|   |   |

```

```

+----- coverage行 704: 函数返回语句
|         return (uip_COM_BUFFER_EMPTY);
|         覆盖
|
+----- decision行 707: if语句
|         ((msgPtr -> uipMsgStatus) & uip_MSG_OVERFLOW) != 0
|
|         T    F
|         01:  *t    *f(((msgPtr -> uipMsgStatus) & uip_MSG_OVERFLOW) != 0)覆盖
|
+----- decision行 714: for语句
|         data_size < msgPtr -> uipMsgSize
|
|         T    F
|         01:  *t    *f(data_size < msgPtr -> uipMsgSize)覆盖
|
+----- decision行 722: if语句
|         (uip_UCHAR_PTR)(msgPtr -> uipQueueReadHead) >=
|         (uip_UCHAR_PTR)(msgPtr -> uipQueueEnd)
|
|         T    F
|         01:  *t    *f((uip_UCHAR_PTR)(msgPtr -> uipQueueReadHead) >=
|         (uip_UCHAR_PTR)(msgPtr -> uipQueueEnd))覆盖
|
+----- coverage行 733: 函数返回语句
|         return (status);
|         覆盖
|
+----- 3.3 函数 UIP_GetMessageStatus
|         StatusType UIP_GetMessageStatus(MsgType MsgID)
|
+----- 函数概要(MCDC):
|         5个真-假判定
|         覆盖数: 3
|         部分覆盖数: 2
|         未覆盖: 0
|         6个条件判定
|         覆盖数: 4
|         部分覆盖数: 2
|         未覆盖: 0
|         0个条件分支
|         覆盖数: 0
|         未覆盖: 0
|         6个覆盖事件
|         覆盖数: 6
|         未覆盖: 0
|
+----- coverage行 792: 函数入口
|         {
|         覆盖

```

```

| | +----- decision行 796: if语句
| | |     MsgID > uipMsgNumber
| | |
| | |     T     F
| | |     01:  *t     *f(MsgID > uipMsgNumber)覆盖
| | |
| | +----- coverage行 798: 函数返回语句
| | |     return (E_OS_ID);
| | |     覆盖
| | |
| | +----- decision行 804: if语句
| | |     ((msgPtr -> uipMsgStatus) & uip_MSG_LOCKED) != 0
| | |
| | |     T     F
| | |     01:  *t     *f(((msgPtr -> uipMsgStatus) & uip_MSG_LOCKED) != 0)覆盖
| | |
| | +----- coverage行 807: 函数返回语句
| | |     return (uip_COM_LOCKED);
| | |     覆盖
| | |
| | +----- decision行 810: if语句
| | |     msgPtr -> uipMsgType == uip_MSG_QUEUED
| | |
| | |     T     F
| | |     01:  *t     *f(msgPtr -> uipMsgType == uip_MSG_QUEUED)覆盖
| | |
| | +----- decision行 814: if语句中的条件表达式
| | |     (((msgPtr -> uipMsgStatus) & uip_MSG_OVERFLOW) == 0) &&
| | |     (msgPtr -> uipQueueReadHead == msgPtr -> uipQueueWriteHead)
| | |
| | |     T     F
| | |     01:  *tt     *fx((((msgPtr -> uipMsgStatus) & uip_MSG_OVERFLOW) == 0))覆盖
| | |     02:  *tt     tf((msgPtr -> uipQueueReadHead == msgPtr ->
| | |     uipQueueWriteHead))部分覆盖
| | |
| | +----- coverage行 818: 函数返回语句
| | |     return (uip_COM_BUFFER_EMPTY);
| | |     覆盖
| | |
| | +----- decision行 821: if语句
| | |     ((msgPtr -> uipMsgStatus) & uip_MSG_OVERFLOW) != 0
| | |
| | |     T     F
| | |     01:  *t     f(((msgPtr -> uipMsgStatus) & uip_MSG_OVERFLOW) != 0)部分覆盖
| | |
| | +----- coverage行 823: 函数返回语句
| | |     return (uip_COM_OVERFLOW);
| | |     覆盖
| | |
| | +----- coverage行 827: 函数返回语句
| | |     return (E_OK);

```

覆盖

+----- 3.4 函数 UIP_ReadFlag

FlagType UIP_ReadFlag(MsgType MsgID)

+----- 函数概要(MCDC):

0个真-假判定

覆盖数: 0

部分覆盖数: 0

未覆盖: 0

0个条件判定

覆盖数: 0

部分覆盖数: 0

未覆盖: 0

0个条件分支

覆盖数: 0

未覆盖: 0

2个覆盖事件

覆盖数: 2

未覆盖: 0

+----- coverage行 873: 函数入口

{

覆盖

+----- coverage行 881: 函数返回语句

return (value);

覆盖

+----- 3.5 函数 UIP_ResetFlag

StatusType UIP_ResetFlag(MsgType MsgID)

+----- 函数概要(MCDC):

0个真-假判定

覆盖数: 0

部分覆盖数: 0

未覆盖: 0

0个条件判定

覆盖数: 0

部分覆盖数: 0

未覆盖: 0

0个条件分支

覆盖数: 0

未覆盖: 0

2个覆盖事件

覆盖数: 2

未覆盖: 0

+----- coverage行 931: 函数入口

{

覆盖


```
| | |
| | +----- coverage行 945: 函数返回语句
| |     return (E_OK);
| |     覆盖
| | |
```

```
| +----- 3.6 函数 UIP_StartCOM
| |     StatusType UIP_StartCOM(void)
```

```
| | +----- 函数概要(MCDC):
| | |     0个真-假判定
| | |         覆盖 数: 0
| | |         部分覆盖数: 0
| | |         未 覆盖: 0
| | |     0个条件判定
| | |         覆盖 数: 0
| | |         部分覆盖数: 0
| | |         未 覆盖: 0
| | |     0个条件分支
| | |         覆盖 数: 0
| | |         未 覆盖: 0
| | |     2个覆盖事件
| | |         覆盖 数: 2
| | |         未 覆盖: 0
| | |
```

```
| | +----- coverage行 998: 函数入口
| | |     {
| | |     覆盖
| | |
```

```
| | +----- coverage行 1004: 函数返回语句
| | |     return (returnVal);
| | |     覆盖
| | |
```

```
| +----- 3.7 函数 UIP_CloseCOM
| |     StatusType UIP_CloseCOM(void)
```

```
| | +----- 函数概要(MCDC):
| | |     0个真-假判定
| | |         覆盖 数: 0
| | |         部分覆盖数: 0
| | |         未 覆盖: 0
| | |     0个条件判定
| | |         覆盖 数: 0
| | |         部分覆盖数: 0
| | |         未 覆盖: 0
| | |     0个条件分支
| | |         覆盖 数: 0
| | |         未 覆盖: 0
| | |     2个覆盖事件
| | |         覆盖 数: 2
| | |         未 覆盖: 0
| | |
```

```

| | +----- coverage行 1053: 函数入口
| | | {
| | | 覆盖
| | |
| | +----- coverage行 1057: 函数返回语句
| | | return (E_OK);
| | | 覆盖
| |
| +----- 3.8 函数 UIP_StopCOM
| |     StatusType UIP_StopCOM(uiip_UCHAR ShutdownMode)
| |
| | +----- 函数概要(MCDC):
| | |     2个真-假判定
| | | |     覆盖 数: 2
| | | |     部分覆盖数: 0
| | | |     未 覆盖: 0
| | | |
| | | |     2个条件判定
| | | | |     覆盖 数: 2
| | | | |     部分覆盖数: 0
| | | | |     未 覆盖: 0
| | | |
| | | |     0个条件分支
| | | | |     覆盖 数: 0
| | | | |     未 覆盖: 0
| | | |
| | | |     3个覆盖事件
| | | | |     覆盖 数: 3
| | | | |     未 覆盖: 0
| | |
| | +----- coverage行 1113: 函数入口
| | | {
| | | 覆盖
| | |
| | +----- decision行 1117: for语句
| | |     msgNumber < uipMsgNumber
| | |
| | |     T     F
| | |     01:  *t     *f(msgNumber < uipMsgNumber)覆盖
| | |
| | +----- decision行 1121: if语句
| | |     ((msgPtr -> uipMsgStatus) & (uip_MSG_LOCKED)) != 0
| | |
| | |     T     F
| | |     01:  *t     *f(((msgPtr -> uipMsgStatus) & (uip_MSG_LOCKED)) != 0)覆盖
| | |
| | +----- coverage行 1123: 函数返回语句
| | |     return (uip_COM_LOCKED);
| | |     覆盖
| | |
| | +----- coverage行 1127: 函数返回语句
| | |     return (E_OK);
| | |     覆盖

```

+----- 4. 文件 uip_kernel_resource.c 目录位置 D:\UIP-Kernel\uikernel\uikernel_original\src

| 最后更新时间: Mon Jun 24 09:43:13 CST 2013

| 文件校验和: XXXXXX

+----- 文件概要(MCDC): 共2个函数

| 9个真-假判定

| 覆盖数: 8

| 部分覆盖数: 1

| 未覆盖: 0

| 10个条件判定

| 覆盖数: 9

| 部分覆盖数: 1

| 未覆盖: 0

| 0个条件分支

| 覆盖数: 0

| 未覆盖: 0

| 12个覆盖事件

| 覆盖数: 12

| 未覆盖: 0

+----- 4.1 函数 uipGetResource

| StatusType uipGetResource(ResourceType ResID)

+----- 函数概要(MCDC):

| 4个真-假判定

| 覆盖数: 4

| 部分覆盖数: 0

| 未覆盖: 0

| 4个条件判定

| 覆盖数: 4

| 部分覆盖数: 0

| 未覆盖: 0

| 0个条件分支

| 覆盖数: 0

| 未覆盖: 0

| 6个覆盖事件

| 覆盖数: 6

| 未覆盖: 0

+----- coverage行 479: 函数入口

| {

| 覆盖

+----- decision行 491: if语句

| uipNestedInterrupts != 0

| T F

| 01: *t *f(uipNestedInterrupts != 0)覆盖

+----- coverage行 494: 函数返回语句

| return (E_OS_CALLEVEL);

```
|
|
|         覆盖
|
| +----- decision行 499: if语句
|         ResID >= uipResNumber
|
|         T     F
|         01:  *t   *f(ResID >= uipResNumber)覆盖
|
| +----- coverage行 502: 函数返回语句
|         return (E_OS_ID);
|         覆盖
|
| +----- decision行 512: if语句
|         (resourcePtr -> uipLock) == 1
|
|         T     F
|         01:  *t   *f((resourcePtr -> uipLock) == 1)覆盖
|
| +----- coverage行 518: 函数返回语句
|         return (E_OS_ACCESS);
|         覆盖
|
| +----- decision行 526: if语句
|         uipCurrentTaskPriority < (resourcePtr -> uipCeilingPrio)
|
|         T     F
|         01:  *t   *f(uipCurrentTaskPriority < (resourcePtr -> uipCeilingPrio))覆盖
|
| +----- coverage行 532: 函数返回语句
|         return (E_OS_ACCESS);
|         覆盖
|
| +----- coverage行 560: 函数返回语句
|         return (E_OK);
|         覆盖
|
| +----- 4.2 函数 uipReleaseResource
|         StatusType uipReleaseResource(ResourceType ResID)
|
| +----- 函数概要(MCDC):
|         5个真-假判定
|         覆盖 数: 4
|         部分覆盖数: 1
|         未 覆盖: 0
|         6个条件判定
|         覆盖 数: 5
|         部分覆盖数: 1
|         未 覆盖: 0
|         0个条件分支
|         覆盖 数: 0
|         未 覆盖: 0
```

6个覆盖事件

覆盖数: 6

未覆盖: 0

+----- coverage行 624: 函数入口

{
覆盖

+----- decision行 635: if语句

uipNestedInterrupts != 0

T F

01: *t *f(uipNestedInterrupts != 0)覆盖

+----- coverage行 641: 函数返回语句

return (E_OS_CALLEVEL);
覆盖

+----- decision行 646: if语句

ResID >= uipResNumber

T F

01: *t *f(ResID >= uipResNumber)覆盖

+----- coverage行 649: 函数返回语句

return (E_OS_ID);
覆盖

+----- decision行 661: if语句中的条件表达式

((resourcePtr -> uipLock) == 0) || ((taskCurrentPtr -> uipResources) != resourcePtr)

T F

01: *tx *ff(((resourcePtr -> uipLock) == 0))覆盖

02: *ft *ff(((taskCurrentPtr -> uipResources) != resourcePtr))覆盖

+----- coverage行 667: 函数返回语句

return (E_OS_NOFUNC);
覆盖

+----- decision行 673: if语句

uipCurrentTaskPriority < (resourcePtr -> uipCeilingPrio)

T F

01: *t *f(uipCurrentTaskPriority < (resourcePtr -> uipCeilingPrio))覆盖

+----- coverage行 679: 函数返回语句

return (E_OS_ACCESS);
覆盖

+----- decision行 696: if语句

uipPrioGrpArray[resourcePtr -> uipResCeilingGrpArrayIndex] == 0x00

```

|           |
|           |           T   F
|           |           01: *t   f(uiPrioGrpArray[resourcePtr -> uipResCeilingGrpArrayIndex] ==
0x00)部分覆盖
|           |
|           | +----- coverage行 713: 函数返回语句
|           |           return (E_OK);
|           |           覆盖
|           |
+----- 5. 文件 uip_kernel_task.c 目录位置 D:\UIP-Kernel\uikernel\uikernel_original\src
|           | 最后更新时间: Mon Jun 24 09:43:07 CST 2013
|           | 文件校验和: XXXXXXX
|           |
+----- 文件概要(MCDC): 共5个函数
|           | 21个真-假判定
|           |     覆盖 数: 15
|           |     部分覆盖数: 6
|           |     未 覆盖: 0
|           | 25个条件判定
|           |     覆盖 数: 18
|           |     部分覆盖数: 7
|           |     未 覆盖: 0
|           | 0个条件分支
|           |     覆盖 数: 0
|           |     未 覆盖: 0
|           | 19个覆盖事件
|           |     覆盖 数: 19
|           |     未 覆盖: 0
|           |
+----- 5.1 函数 UIP_ActivateTask
|           |     StatusType UIP_ActivateTask(TaskType TaskID)
|           |
|           | +----- 函数概要(MCDC):
|           |     4个真-假判定
|           |         覆盖 数: 3
|           |         部分覆盖数: 1
|           |         未 覆盖: 0
|           |     6个条件判定
|           |         覆盖 数: 4
|           |         部分覆盖数: 2
|           |         未 覆盖: 0
|           |     0个条件分支
|           |         覆盖 数: 0
|           |         未 覆盖: 0
|           |     4个覆盖事件
|           |         覆盖 数: 4
|           |         未 覆盖: 0
|           |
|           | +----- coverage行 465: 函数入口
|           |     {
|           |     覆盖

```

```

|
|
| +----- decision行 475: if语句中的条件表达式
|         (TaskID < uip_TASK_MAX) && (TaskID >= 0)
|
|         T      F
|         01: *tt      *fx((TaskID < uip_TASK_MAX))覆盖
|         02: *tt      *tf((TaskID >= 0))覆盖
|
| +----- decision行 482: if语句
|         ((taskPtr -> uipTaskState) & uip_TASK_STATE_MASK) == SUSPENDED_STATE
|
|         T      F
|         01: *t      *f(((taskPtr -> uipTaskState) & uip_TASK_STATE_MASK) ==
SUSPENDED_STATE)覆盖
|
| +----- decision行 503: if语句中的条件表达式
|         (uipNestedInterrupts == 0) && (uipSchedulerLock == 0)
|
|         T      F
|         01: *tt      fx((uipNestedInterrupts == 0))部分覆盖
|         02: *tt      tf((uipSchedulerLock == 0))部分覆盖
|
| +----- decision行 512: if语句
|         (taskPtr -> uipActivatedNumber) < ACTIVATED_NUM_MAX
|
|         T      F
|         01: *t      *f((taskPtr -> uipActivatedNumber) < ACTIVATED_NUM_MAX)覆盖
|
| +----- coverage行 523: 函数返回语句
|         return (E_OS_LIMIT);
|         覆盖
|
| +----- coverage行 531: 函数返回语句
|         return (E_OK);
|         覆盖
|
| +----- coverage行 538: 函数返回语句
|         return (E_OS_ID);
|         覆盖
|
+----- 5.2 函数 UIP_TerminateTask
|         StatusType UIP_TerminateTask (VOID)
|
| +----- 函数概要(MCDC):
|         6个真-假判定
|         覆盖数: 4
|         部分覆盖数: 2
|         未覆盖: 0
|         6个条件判定
|         覆盖数: 4
|         部分覆盖数: 2

```

未覆盖: 0
 0个条件分支
 覆盖数: 0
 未覆盖: 0
 4个覆盖事件
 覆盖数: 4
 未覆盖: 0

+----- coverage行 601: 函数入口

{
 覆盖

+----- decision行 607: if语句

uipNestedInterrupts != 0

T F

01: *t *f(uipNestedInterrupts != 0)覆盖

+----- coverage行 610: 函数返回语句

return (E_OS_CALLEVEL);
 覆盖

+----- decision行 613: if语句

uipSchedulerLock != 0

T F

01: *t *f(uipSchedulerLock != 0)覆盖

+----- coverage行 616: 函数返回语句

return (uip_SCHEDULER_LOCKED);
 覆盖

+----- decision行 626: if语句

(taskPtr -> uipResources) != 0

T F

01: *t *f((taskPtr -> uipResources) != 0)覆盖

+----- coverage行 632: 函数返回语句

return (E_OS_RESOURCE);
 覆盖

+----- decision行 651: if语句

(taskPtr -> uipActivatedNumber) == 0

T F

01: *t *f((taskPtr -> uipActivatedNumber) == 0)覆盖

+----- decision行 668: if语句

(taskPtr -> uipDispatchPrio) != (taskPtr -> uipReadyPrio)

盖

```
|      |      T      F
|      |      01: *t      f((taskPtr -> uipDispatchPrio) != (taskPtr -> uipReadyPrio))部分覆盖
|      |
|      | +----- decision行 673: if语句
|      |      uipPrioGrpArray[taskPtr -> uipDispPrioGrpArrayIndex] == 0x00
|      |
|      |      T      F
|      |      01: *t      f(uipPrioGrpArray[taskPtr -> uipDispPrioGrpArrayIndex] == 0x00)部分覆
盖
|
| +----- 5.3 函数 UIP_ChainTask
|      |      StatusType UIP_ChainTask (TaskType TaskID)
|      |
|      | +----- 函数概要(MCDC):
|      |      9个真-假判定
|      |      覆盖数: 6
|      |      部分覆盖数: 3
|      |      未覆盖: 0
|      |      10个条件判定
|      |      覆盖数: 7
|      |      部分覆盖数: 3
|      |      未覆盖: 0
|      |      0个条件分支
|      |      覆盖数: 0
|      |      未覆盖: 0
|      |      6个覆盖事件
|      |      覆盖数: 6
|      |      未覆盖: 0
|      |
|      | +----- coverage行 780: 函数入口
|      |      {
|      |      覆盖
|      |
|      | +----- decision行 786: if语句
|      |      uipNestedInterrupts != 0
|      |
|      |      T      F
|      |      01: *t      *f(uipNestedInterrupts != 0)覆盖
|      |
|      | +----- coverage行 789: 函数返回语句
|      |      return (E_OS_CALLEVEL);
|      |      覆盖
|      |
|      | +----- decision行 792: if语句
|      |      uipSchedulerLock != 0
|      |
|      |      T      F
|      |      01: *t      *f(uipSchedulerLock != 0)覆盖
|      |
|      | +----- coverage行 795: 函数返回语句
|      |      return (uip_SCHEDULER_LOCKED);
```

```

| |         覆盖
| |
| | +----- decision行 804: if语句中的条件表达式
| |         (TaskID < uip_TASK_MAX) && (TaskID >= 0)
| |
| |         T      F
| |         01: *tt      *fx((TaskID < uip_TASK_MAX))覆盖
| |         02: *tt      *tf((TaskID >= 0))覆盖
| |
| | +----- decision行 810: if语句
| |         (taskCurrentPtr -> uipResources) != 0
| |
| |         T      F
| |         01: *t      *f((taskCurrentPtr -> uipResources) != 0)覆盖
| |
| | +----- coverage行 816: 函数返回语句
| |         return (E_OS_RESOURCE);
| |         覆盖
| |
| | +----- decision行 824: if语句
| |         taskPtr != uipCurrentTaskTCBPtr
| |
| |         T      F
| |         01: *t      *f(taskPtr != uipCurrentTaskTCBPtr)覆盖
| |
| | +----- decision行 827: if语句
| |         ((taskPtr -> uipTaskState) & uip_TASK_STATE_MASK) == SUSPENDED_STATE
| |
| |         T      F
| |         01: *t      *f(((taskPtr -> uipTaskState) & uip_TASK_STATE_MASK) ==
SUSPENDED_STATE)覆盖
| |
| | +----- coverage行 853: 函数返回语句
| |         return (E_OS_LIMIT);
| |         覆盖
| |
| | +----- decision行 885: if语句
| |         (taskCurrentPtr -> uipDispatchPrio) != (taskCurrentPtr -> uipReadyPrio)
| |
| |         T      F
| |         01: *t      f((taskCurrentPtr -> uipDispatchPrio) != (taskCurrentPtr ->
uipReadyPrio))部分覆盖
| |
| | +----- decision行 890: if语句
| |         uipPrioGrpArray[taskCurrentPtr -> uipDispPrioGrpArrayIndex] == 0x00
| |
| |         T      F
| |         01: *t      f(uipPrioGrpArray[taskCurrentPtr -> uipDispPrioGrpArrayIndex] ==
0x00)部分覆盖
| |
| | +----- decision行 915: if语句

```

```

|         |         (taskCurrentPtr -> uipActivatedNumber) != 0
|         |
|         |         T     F
|         |         01:  *t     f((taskCurrentPtr -> uipActivatedNumber) != 0)部分覆盖
|         |
|         +----- coverage行 930: 函数返回语句
|         |         return (E_OS_ID);
|         |         覆盖
|
+----- 5.4 函数 UIP_GetTaskID
|         |         StatusType UIP_GetTaskID (TaskRefType TaskID)
|         |
|         +----- 函数概要(MCDC):
|         |         1个真-假判定
|         |         覆盖 数: 1
|         |         部分覆盖数: 0
|         |         未 覆盖: 0
|         |         1个条件判定
|         |         覆盖 数: 1
|         |         部分覆盖数: 0
|         |         未 覆盖: 0
|         |         0个条件分支
|         |         覆盖 数: 0
|         |         未 覆盖: 0
|         |         2个覆盖事件
|         |         覆盖 数: 2
|         |         未 覆盖: 0
|
|         +----- coverage行 986: 函数入口
|         |         {
|         |         覆盖
|
|         +----- decision行 992: if语句
|         |         taskCurrentPtr == uip_NULL
|         |
|         |         T     F
|         |         01:  *t     *(taskCurrentPtr == uip_NULL)覆盖
|
|         +----- coverage行 1002: 函数返回语句
|         |         return (E_OK);
|         |         覆盖
|
+----- 5.5 函数 UIP_GetTaskState
|         |         StatusType UIP_GetTaskState (TaskType TaskID, TaskStateRefType State)
|         |
|         +----- 函数概要(MCDC):
|         |         1个真-假判定
|         |         覆盖 数: 1
|         |         部分覆盖数: 0
|         |         未 覆盖: 0
|         |         2个条件判定

```

```

|           覆盖 数: 2
|           部分覆盖数: 0
|           未 覆盖: 0
|     0个条件分支
|           覆盖 数: 0
|           未 覆盖: 0
|     3个覆盖事件
|           覆盖 数: 3
|           未 覆盖: 0
|
+----- coverage行 1063: 函数入口
|     {
|     覆盖
|
+----- decision行 1073: if语句中的条件表达式
|     (TaskID < uip_TASK_MAX) && (TaskID >= 0)
|
|           T      F
|     01:  *tt      *fx((TaskID < uip_TASK_MAX))覆盖
|     02:  *tt      *tf((TaskID >= 0))覆盖
|
+----- coverage行 1084: 函数返回语句
|     return (E_OK);
|     覆盖
|
+----- coverage行 1091: 函数返回语句
|     return (E_OS_ID);
|     覆盖

```