

```
/*
```

```
001-Generated C code for functional specification 'SCHEDULE_EVENT'
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```
VERSION: 3.2.3.9 C-RAT
```

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: 1.6.0.0
```

```
AUTHOR: Hamilton Technologies Inc. Copyright 1991-2015.
```

```
OPERATION: SCHEDULE_EVENT
```

```
GENERATED: Tue Aug 25 16:55:14 2015
```

```
SCCSID: @(#) %M% %I% of %G%.
```

```
*/
```

```
#include "EVENTS.h"
```

```
#include "NAT.h"
```

```
#include "CHAR.h"
```

```
#include "AN_EVENT.h"
```

```
#include "BOOLEAN.h"
```

```
#include <stdio.h>
```

```
#include <math.h>
```

```
#include <errno.h>
```

```
#include "BOOLEAN.h"
```

```
#include "NAT.h"
```

```
fSCHEDULE_EVENT(VORUNTIME,VOEVENT,VOEVENTS,  
                VOES)
```

```
IDECLARE_NAT(VORUNTIME)
```

```
IDECLARE_AN_EVENT(VOEVENT)
```

```
IDECLARE_EVENTS(VOEVENTS)
```

```
ODECLARE_EVENTS(VOES)
```

```
{
```

```
/* __LOCAL_VARIABLE_DECLARATIONS__ */
```

```
DECLARE_CHAR(C1)
```

```
DECLARE_AN_EVENT(VOME3)
```

```
DECLARE_CHAR(C3)
```

```

DECLARE_AN_EVENT(VOME2)
DECLARE_EVENTS(VOES3)
DECLARE_CHAR(C6)
DECLARE_NAT(VONEWRT)
DECLARE_CHAR(C8)
DECLARE_EVENTS(VOES4)
DECLARE_AN_EVENT(VOE1)
DECLARE_AN_EVENT(VOE_)
DECLARE_NAT(VOETX)
DECLARE_AN_EVENT(VOE)
DECLARE_NAT(VONEWET)
DECLARE_AN_EVENT(VOME1)
DECLARE_NAT(VOET)
DECLARE_AN_EVENT(VORE)
DECLARE_EVENTS(VOES1)
DECLARE_CHAR(C19)
DECLARE_BOOLEAN(D0D1)
DECLARE_BOOLEAN(D0D4)
DECLARE_BOOLEAN(D0D8)
                /* __ITERATION_VARIABLE_DECLARATIONS__ */
int rec4MOVE_TO_INSERT;
DECLARE_NAT(R40RUNTIME)
DECLARE_AN_EVENT(R40EVENT)
DECLARE_EVENTS(R40ES1)
                /* __CONSTANT_DECLARATIONS_AND_ASSIGNMENTS__ */
DOT_K_CHAR('R',C1)
DOT_K_CHAR('L',C3)
DOT_K_CHAR('R',C6)
DOT_K_CHAR('L',C8)
DOT_K_CHAR('<',C19)
                /* __FUNCTION_SOURCE_CODE_BEGINNING__ */
ISEMPTY_EVENTS(VOEVENTS,D0D1)
    if(D0D1<1)
    {if(D0D1 == REJECT_BOOLEAN) {REJECT_TEST_BOOLEAN()}}
    NEXT_EVENTS(C19,VOEVENTS,VOES1)
R40RUNTIME=VORUNTIME;

```

```

R40EVENT=V0EVENT;
R40ES1=V0ES1;
rec4MOVE_TO_INSERT=1;
while(rec4MOVE_TO_INSERT--){
    ATNULL_EVENTS(V0ES1,D0D4)
    if(D0D4<1)
    {if(D0D4 == REJECT_BOOLEAN) {REJECT_TEST_BOOLEAN()}
    MOVETO_EVENTS(V0ES1,V0RE)
    MOVETO_TIME_AN_EVENT(V0RE,V0ET)
    GT_NAT(V0RUNTIME,V0ET,D0D8)
    if(D0D8<1)
    {if(D0D8 == REJECT_BOOLEAN) {REJECT_TEST_BOOLEAN()}
    PUT_TIME_AN_EVENT(V0RUNTIME,V0EVENT,V0ME1)
    SUB_NAT(V0ET,V0RUNTIME,V0NEWET)
    MOVETO_EVENTS(V0ES1,V0E)
    GET_TIME_AN_EVENT(V0E,V0ETX,V0E_)
    PUT_TIME_AN_EVENT(V0NEWET,V0E_,V0E1)
    UPTO_EVENTS_AN_EVENT(V0E1,V0ES4)
    INSERT_EVENTS(C8,V0ME1,V0ES4,*V0ES)
    }/*FALSE*/
    }/*ADVANCE_BY_EVENT*/
    SUB_NAT(V0RUNTIME,V0ET,V0NEWRT)
    NEXT_EVENTS(C6,V0ES1,V0ES3)
    rec4MOVE_TO_INSERT=1;
    V0RUNTIME=V0NEWRT;
    V0EVENT=V0EVENT;
    V0ES1=V0ES3;
    }/*TRUE*/
    }/*FALSE*/
    }/*BEYOND_ALL_EVENTS*/
    PUT_TIME_AN_EVENT(V0RUNTIME,V0EVENT,V0ME2)
    INSERT_EVENTS(C3,V0ME2,V0ES1,*V0ES)
    }/*TRUE*/
    }
V0RUNTIME=R40RUNTIME;
V0EVENT=R40EVENT;

```

```
VOES1=R40ES1;  
}/*FALSE*/  
else{ /*NO_EVENTS*/  
    PUT_TIME_AN_EVENT(VORUNTIME,VOEVENT,VOME3)  
    INSERT_EVENTS(C1,VOME3,VOEVENTS,*VOES)  
}/*TRUE*/  
  
return;  
}  
/* ----- end of source -----*/
```