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/*
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001-Generated C code for functional specification 'DO_EVENTS'
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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.
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```
OPERATION: DO_EVENTS
```

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

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

```
*/
```

```
#include "JOBS.h"  
#include "MACHINES.h"  
#include "EVENTS.h"  
#include "SIMDB.h"  
#include "READYQ.h"  
#include "CHAR.h"  
#include "NAT.h"  
#include "BOOLEAN.h"
```

```
#include <stdio.h>  
#include <math.h>  
#include <errno.h>  
#include "BOOLEAN.h"  
#include "NAT.h"
```

```
fDO_EVENTS(V0SIMDB,  
           V0S)
```

```
IDECLARE_SIMDB(V0SIMDB)
```

```
ODECLARE_SIMDB(V0S)
```

```
{
```

```
/* ___LOCAL_VARIABLE_DECLARATIONS___ */
```

```
DECLARE_SIMDB(V0S2)
```

```
DECLARE_SIMDB(V0S1)
```

```

DECLARE_READYQ(V0RQ1)
DECLARE_JOBS(V0RJSN)
DECLARE_CHAR(C5)
DECLARE_MACHINES(V0MSN)
DECLARE_EVENTS(V0ESN)
DECLARE_JOBS(V0RJS2)
DECLARE_JOBS(V0RJS1)
DECLARE_NAT(C10)
DECLARE_EVENTS(V0ES0)
DECLARE_MACHINES(V0MS0)
DECLARE_JOBS(V0READYJOBS)
DECLARE_READYQ(V0RQ)
DECLARE_BOOLEAN(D0D4)
DECLARE_BOOLEAN(D0D9)
                /* __ITERATION_VARIABLE_DECLARATIONS__ */
int rec9FOR_ALL;
DECLARE_JOBS(R90RJS1)
DECLARE_EVENTS(R90ES0)
DECLARE_MACHINES(R90MS0)
                /* __CONSTANT_DECLARATIONS_AND_ASSIGNMENTS__ */
DOT_K_CHAR('R',C5)
DOT_K_NAT(1,C10)
                /* __FUNCTION_SOURCE_CODE_BEGINNING__ */
MOVETO_READYQ_SIMDB(V0SIMDB,V0RQ)
MOVETO_JOBS_READYQ(V0RQ,V0READYJOBS)
ISEMPTY_JOBS(V0READYJOBS,D0D4)
    if(D0D4<1)
    {if(D0D4 == REJECT_BOOLEAN) {REJECT_TEST_BOOLEAN()}
      MOVETO_MACHINES_SIMDB(V0SIMDB,V0MS0)
      MOVETO_EVENTS_SIMDB(V0SIMDB,V0ES0)
      LOCATE_JOBS(C10,V0READYJOBS,V0RJS1)
R90RJS1=V0RJS1;
R90ES0=V0ES0;
R90MS0=V0MS0;
rec9FOR_ALL=1;
while(rec9FOR_ALL--){

```

```

ATNULL_JOBS(V0RJS1,D0D9)
  if(D0D9<1)
{if(D0D9 == REJECT_BOOLEAN) {REJECT_TEST_BOOLEAN()}}
  fDO_READY_JOB(V0RJS1,V0ES0,V0MS0,&V0RJS2,&V0ESN,&V0MSN);
  NEXT_JOBS(C5,V0RJS2,V0RJSN)
    rec9FOR_ALL=1;
    V0RJS1=V0RJSN;
    V0ES0=V0ESN;
    V0MS0=V0MSN;
  }/*FALSE*/
else{/*DONE*/
  UPTO_READYQ_JOBS(V0RJS1,V0RQ1)
  UPTO_SIMDB_READYQ(V0RQ1,V0S1)
  CLONE_SIMDB(V0S1,V0S2)
  CLONE_SIMDB(V0S2,*V0S)
}/*TRUE*/
}
V0RJS1=R90RJS1;
V0ES0=R90ES0;
V0MS0=R90MS0;
}/*FALSE*/
else{/*CLONE1_SIMDB*/
  CLONE_SIMDB(V0SIMDB,*V0S)
}/*TRUE*/

return;
}
/* ----- end of source -----*/

```