

/*

001-Generated C code for functional specification 'PRIORITY_INSERT'

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: 1.6.0.0

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OPERATION: PRIORITY_INSERT

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*/

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

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

```
fPRIORITY_INSERT(V0JOB,V0SIMDB,
                V0S)
```

```
IDECLARE_JOB(V0JOB)
```

```
IDECLARE_SIMDB(V0SIMDB)
```

```
ODECLARE_SIMDB(V0S)
```

```
{
```

```
/* __LOCAL_VARIABLE_DECLARATIONS__ */
```

```
DECLARE_READYQ(V0RQ1)
```

```
DECLARE_CHAR(C2)
```

```

DECLARE_CHAR(C3)
DECLARE_CHAR(C4)
DECLARE_JOBS(V0RJSN)
DECLARE_CHAR(C6)
DECLARE_NAT(V0RJPPRIORITY)
DECLARE_JOB(V0RJ)
DECLARE_JOBS(V0RJS1)
DECLARE_CHAR(C10)
DECLARE_NAT(V0PPRIORITY)
DECLARE_JOBS(V0RJS)
DECLARE_JOBS(V0RJS0)
DECLARE_READYQ(V0RQ)
DECLARE_BOOLEAN(D0D4)
DECLARE_BOOLEAN(D0D8)
DECLARE_BOOLEAN(D0D12)
                /* __ITERATION_VARIABLE_DECLARATIONS__ */
int rec8MOVE_TO_INSERT;
DECLARE_JOB(R80JOB)
DECLARE_NAT(R80PPRIORITY)
DECLARE_JOBS(R80RJS1)
                /* __CONSTANT_DECLARATIONS_AND_ASSIGNMENTS__ */
DOT_K_CHAR('R',C2)
DOT_K_CHAR('>',C3)
DOT_K_CHAR('L',C4)
DOT_K_CHAR('R',C6)
DOT_K_CHAR('<',C10)
                /* __FUNCTION_SOURCE_CODE_BEGINNING__ */
    MOVETO_READYQ_SIMDB(V0SIMDB,V0RQ)
    MOVETO_JOBS_READYQ(V0RQ,V0RJS0)
    ISEMPY_JOBS(V0RJS0,D0D4)
        if(D0D4<1)
    {if(D0D4 == REJECT_BOOLEAN) {REJECT_TEST_BOOLEAN()}}
        MOVETO_PRIORITY_JOB(V0JOB,V0PPRIORITY)
        NEXT_JOBS(C10,V0RJS0,V0RJS1)
R80JOB=V0JOB;
R80PPRIORITY=V0PPRIORITY;

```

```

R80RJS1=V0RJS1;
rec8MOVE_TO_INSERT=1;
while(rec8MOVE_TO_INSERT--){
    ATNULL_JOBS(V0RJS1,D0D8)
    if(D0D8<1)
    {if(D0D8 == REJECT_BOOLEAN) {REJECT_TEST_BOOLEAN()}
    MOVETO_JOBS(V0RJS1,V0RJ)
    MOVETO_PRIORITY_JOB(V0RJ,V0RJPRIORITY)
    LT_NAT(V0PRIORITY,V0RJPRIORITY,D0D12)
    if(D0D12<1)
    {if(D0D12 == REJECT_BOOLEAN) {REJECT_TEST_BOOLEAN()}
    NEXT_JOBS(C6,V0RJS1,V0RJSN)
    rec8MOVE_TO_INSERT=1;
    V0JOB=V0JOB;
    V0PRIORITY=V0PRIORITY;
    V0RJS1=V0RJSN;
    }/*FALSE*/
    else{/*INSERT_JOBS*/
    INSERT_JOBS(C4,V0JOB,V0RJS1,V0RJS)
    }/*TRUE*/
    }/*FALSE*/
    else{/*INSERT_JOBS*/
    INSERT_JOBS(C3,V0JOB,V0RJS1,V0RJS)
    }/*TRUE*/
    }
V0JOB=R80JOB;
V0PRIORITY=R80PRIORITY;
V0RJS1=R80RJS1;
}/*FALSE*/
else{/*INSERT_JOBS*/
    INSERT_JOBS(C2,V0JOB,V0RJS0,V0RJS)
}/*TRUE*/
    UPTO_READYQ_JOBS(V0RJS,V0RQ1)
    UPTO_SIMDB_READYQ(V0RQ1,*V0S)

return;

```

```
}  
/* ----- end of source -----*/
```