Library Contents Replacement Calls

Advice on Replacement Calls for Withdrawn/Superseded Procedures

The following list illustrates how a call to procedure, which has been withdrawn or superseded, may be replaced by a call to a new procedure. The list indicates the minimum change necessary, but many of the replacement procedures have additional flexibility and users may wish to take advantage of new features. It is strongly recommended that users consult the procedure documents.

Module 9.4: nag_con_nlin_lsq

Procedure: nag_con_nlin_lsq_sol Scheduled for withdrawal at Release 6

Replacement Procedure: nag_con_nlin_lsq_sol_1

Old:

```
SUBROUTINE obj_fun(first_call,x,finish,f,f_jac)
...
END SUBROUTINE obj_fun
...
USE nag_con_nlin_lsq, ONLY: nag_con_nlin_lsq_sol, ...
...
CALL nag_con_nlin_lsq_sol (obj_fun,...)

New:

SUBROUTINE obj_fun(first_call,x,finish,f,f_jac,needf)
...
INTEGER, OPTIONAL, INTENT (IN) :: needf(:)
...
END SUBROUTINE obj_fun
...
USE nag_con_nlin_lsq, ONLY: nag_con_nlin_lsq_sol_1, ...
...
CALL nag_con_nlin_lsq_sol_1 (obj_fun,...)
```

Current usage of nag_con_nlin_lsq_sol can be replaced by using nag_con_nlin_lsq_sol_1 and adding the optional input argument needf in the specification of the user-supplied procedure obj_fun as shown above. No further changes are needed.