

NAG C Library Function Document

nag_full_step_regsn_monit (g02ewc)

1 Purpose

An example monitor function for nag_full_step_regsn (g02efc).

2 Specification

```
#include <nag.h>
#include <nagg02.h>

void nag_full_step_regsn_monit (Nag_FullStepwise flag, Integer var, double val,
                                NagError *fail)
```

3 Description

Prints the progress of full stepwise selection of variables in a multiple regression to stdout.

4 References

None.

5 Arguments

- 1: **flag** – Nag_FullStepwise *Input*
On entry: the value of **flag** indicates the stage of the stepwise selection of explanatory variables.
- flag = Nag_AddVar**
Variable **var** was added to the current model.
- flag = Nag_BeginBackward**
Beginning the backward elimination step.
- flag = Nag_ColinearVar**
Variable **var** failed the collinearity test and is excluded from the model.
- flag = Nag_DropVar**
Variable **var** was dropped from the current model.
- flag = Nag_BeginForward**
Beginning the forward selection step
- flag = Nag_NoRemoveVar**
Backward elimination did not remove any variables from the current model.
- flag = Nag_BeginStepwise**
Starting stepwise selection procedure.
- flag = Nag_VarianceRatio**
The variance ratio for variable **var** takes the value **val**.

flag = Nag_FinishStepwise

Finished stepwise selection procedure.

Constraint: **flag** = Nag_AddVar, Nag_BeginBackward, Nag_ColinearVar, Nag_DropVar, Nag_BeginForward, Nag_NoRemoveVar, Nag_BeginStepwise, Nag_VarianceRatio or Nag_FinishStepwise.

2: **var** – Integer *Input*

On entry: the index of the explanatory variable in the design matrix Z to which **flag** pertains.

3: **val** – double *Input*

On entry: if **flag** = Nag_VarianceRatio then **val** is the variance ratio value for the coefficient associated with explanatory variable index **var**.

4: **fail** – NagError * *Input/Output*

The NAG error argument (see Section 2.6 of the Essential Introduction).

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Further Comments

None.

9 Example

See Section 9 of the document for nag_full_step_regsn (g02efc).
