

nag_ode_ivp_rk_free (d02ppc)

1. Purpose

nag_ode_ivp_rk_free (d02ppc) is the function for freeing memory from the structure of type `Nag_ODE_RK`. This memory will have been allocated during a call to the function `nag_ode_ivp_rk_setup (d02pvc)` and `nag_ode_ivp_rk_interp (d02pxc)`. The structure is used to communicate information between the functions `nag_ode_ivp_rk_range (d02pcc)`, `nag_ode_ivp_rk_onestep (d02pdc)`, `nag_ode_ivp_rk_interp (d02pxc)`, `nag_ode_ivp_rk_reset_tend (d02pwc)`, and `nag_ode_ivp_rk_errass (d02pzc)`.

2. Specification

```
#include <nag.h>
#include <nagd02.h>

void nag_ode_ivp_rk_free(Nag_ODE_RK *opt)
```

3. Description

A structure of type `Nag_ODE_RK` is used to communicate information between the Runge–Kutta functions. On completion of the integration the user can free this memory by a call to `nag_ode_ivp_rk_free`.

4. Parameters

opt

Input: the structure used to communicate between the Runge–Kutta functions.

Output: all memory allocated to this structure will have been freed and the pointers set to `NULL`.

5. Error Indications and Warnings

None.

6. Further Comments

None.

7. See Also

`nag_ode_ivp_rk_setup (d02pvc)`

8. Example

See the Runge–Kutta example programs.
