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.