

[Help](#)

```

#ifndef __COMPANY_H
#define __COMPANY_H

#include      "cdo_math.h"
#include      "structs.h"

typedef struct company
{
    double      nominal;
    step_fun     *h;
    step_fun     *H;
    double      mean_delta;
    pfun_void_R   *generate_delta;
    pfun_R_complex *phi_recov;
    void         *p_recovery;
} company;

typedef struct params_cov_unif
{
    double  a;
    double  b;
} params_recov_unif;

typedef struct params_cov_gauss
{
    double  m;
    double  s;
} params_recov_gauss;

company      *init_company(const double      nominal,
                           const int         intensity_n_step,
                           const double      *intensity_x,
                           const double      *intensity_h_x,
                           const double      mean_delta,
                           pfun_void_R       *generate_delta,
                           pfun_R_complex    *phi_recov,
                           void              *p_recovery);
company      *init_company_cov_cst(const double      nominal,

```

```

                                const int      intensity_n_step,
                                const double     *intensity_x,
                                const double     *intensity_h_x,
                                const double     delta);
company      *init_company_cov_unif(const double nominal,
                                const int      intensity_n_step,
                                const double     *intensity_x,
                                const double     *intensity_h_x,
                                const double     a,
                                const double     b);
company      *init_company_cov_gauss(const double nominal,
                                const int      intensity_n_step,
                                const double     *intensity_x,
                                const double     *intensity_h_x,
                                const double     m,
                                const double     s);

company      *homogenize_company(const company *comp,
                                const double     new_nominal,
                                const double     new_delta);

void          free_company(company      *co);

#endif /* __COMPANY_H */

```