

[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,

```

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    pfun_R_complex      *phi_
    recov,
    void      *p_recovery);
company      *init_company_cov_cst(const double      nom
    inal,
    const int
    intensity_n_step,
    const double      *
    intensity_x,
    const double      *
    intensity_h_x,
    const double      de
    lta);
company      *init_company_cov_unif(const double      nom
    inal,
    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_nom
    inal,
    const double      new_de
    lta);

```

```
void          free_company(company          *co);  
  
#endif  /* __COMPANY_H */
```

## References