

Simple preconditioners:

```
type(psb_dprec_type) :: prec
call psb_precinit(prec, precname, info)
call psb_precbld(a, desc_a, prec, info)
```

**NOPREC** No preconditioning;

**DIAG** Scaling by a diagonal  $d(i) = 1/a_{ii}$

**BJAC** Block Jacobi with factorization  $ILU(0)$ .

They are available, in the relevant types, as C interfaces in

```
psb_c_dprec* psb_c_new_dprec();
psb_i_t psb_c_dprecinit(psb_c_ctxt ctxt, psb_c_dprec *ph,
^~Iconst char *ptype);
psb_i_t psb_c_dprecbld(psb_c_dspmat *ah,
^~I psb_c_descriptor *cdh, psb_c_dprec *ph);
```

all the prototypes can be included from `psb_prec_cbind.h`.