

## Linear

### Parametrization

This model is just a simplified way of specifying a “fixed” effect

$$\eta_i = \beta w_i$$

where  $\beta$  is Normal with mean  $\mu$  and precision  $\tau$  (which are typically unequal to the default values; see `?control.fixed`).

### Hyperparameters

None

### Specification

```
f(w, model="linear", mean.linear = <mu>, prec.linear = <prec>)
```

where `<mu>` is the prior mean and `<prec>` is the prior precision.

### Hyperparameter specification and default values

**doc** Alternative interface to an fixed effect

**hyper**

**constr** FALSE

**nrow.ncol** FALSE

**augmented** FALSE

**aug.factor** 1

**aug.constr**

**n.div.by**

**n.required** FALSE

**set.default.values** FALSE

**pdf** linear

### Example

```
n = 100
w = runif(n)
y = 1 + w + rnorm(n)
r = inla(y ~ f(w, model = "linear",
               mean.linear=1, prec.linear=1),
        data = data.frame(y,w))
summary(r)
```

### Notes

None