

# Gama 1.7 BDI Documentation

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## 1 BDI

### 1.1 Instantiation

Required declaration :

```
species <specie_name> control: simple_bdi
{
    ...
}
```

### 1.2 Functions

#### get\_plans()

*Description:* Get the list of plans.

*Returns:*

- *Type:* **list<BDIPlan>**
- *Description:* The list of BDI plans.

#### add\_belief(belief)

*Arguments:*

- **predicate** belief: predicate to add as a belief. (Optional)

*Description:* Add the predicate in the belief base.

*Returns:*

- *Type:* **bool**
- *Description:* True if it is added in the base.

### has\_belief(belief)

*Arguments:*

- **predicate** belief: predicate to check. (Optional)

*Description:* Check if the predicates is in the belief base.

*Returns:*

- *Type:* **bool**
- *Description:* the predicate if it is in the base.

### get\_belief(belief)

*Arguments:*

- **predicate** belief: predicate to get. (Optional)

*Description:* Get the predicate in the belief base (if several, returns the first one).

*Returns:*

- *Type:* **predicate**
- *Description:* The predicate if it is in the base.

### get\_belief\_with\_name(name)

*Arguments:*

- **string** name: Name of the predicate to check.

*Description:* Get the predicates is in the belief base (if several, returns the first one).

*Returns:*

- *Type:* **predicate**
- *Description:* The predicate if it is in the base.

### get\_beliefs\_with\_name(name)

*Arguments:*

- **string** name: Name of the predicates to check.

*Description:* Get the list of predicates is in the belief base with the given name.

*Returns:*

- *Type:* **list<predicate>**
- *Description:* The list of predicates.

### **get\_beliefs(name)**

*Arguments:*

- **predicate** name: Name of the predicates to check.

*Description:* Get the list of predicates is in the belief base.

*Returns:*

- *Type:* **list<predicate>**
- *Description:* The list of predicates.