# Forest Resource - GET

## Request

```
GET $baseUrl/rest/structure/1.0/structure/$id/forest
GET $baseUrl/rest/structure/1.0/structure/$id/forest?root=$root
```

Returns the hierarchical issue list (forest) of the specified structure.

**Parameters:**

| $id | *required* | the ID of the structure |
|---|---|---|
| $root | *optional* | the ID of the pinned issue for the Fixed Structure View |

## Response

```
{
    "structure":100,
    "version":2981,
    "root":10001,
    "formula":"10009:0,10008:1,10006:2,10002:3,10001:4,10062:4,10070:3,10071:2,10041:2"
}
```

**Response Fields:**

| structure | the ID of the structure |
|---|---|
| version | the version of the foresst |
| root | the pinned issue if the fixed structure view has been requested (absent otherwise) |
| formula | a string representation of the issue forest |

## Forest Formula

The forest of issues is represented by a string formula, which consists of pairs "*issue ID:depth*", delimited by a comma. Each pair represents a row in the fully expanded view of the forest.

```
ForestFormula ::= NodeSequence
NodeSequence ::= Node [ "," NodeSequence ]
Node ::= IssueID ":" Depth
IssueID ::= Integer
Depth ::= Integer
```