
Abacus Documentation

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DLFC

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Contents

1	APIs	3
1.1	tesnor.h	3

A High Performance Tensor module.

Contents:

tesnor.h

a tensor

namespace abacus

```
template <int dimension>
struct Shape
    #include <tensor.h>
```

Public Types

```
typedef unsigned Shape::index_t
```

Public Functions

```
Shape::Shape ()
    default constructor, do nothing
```

```
Shape::Shape (const Shape < kDimension > & source)
    constructor
```

Parameters

- s: the shape to copy

```
index_t& abacus::Shape::operator[] (index_t idx)
    get corresponding index
```

Return the corresponding dimension size

Parameters

- idx: dimension index

```
const index_t& abacus::Shape::operator[](index_t idx) const  
    get corresponding index
```

Return the corresponding dimension size

Parameters

- `idx`: dimension index

Public Members

```
index_t abacus::Shape< dimension >::shape_[kDimension]  
    a list to store the shape
```

Public Static Attributes

```
const int Shape::kDimension = dimension  
    dimension of the shape
```

A

abacus::Shape::Shape (C function), 3