

sqrt

C++11 中的函数原型如下：

```
double sqrt (double x);
float sqrt (float x);
long double sqrt (long double x);
double sqrt (T x);           // additional overloads for integral types
```

会先将T类型转成 double 类型？

Additional overloads are provided in this header (`<cmath>`) for the [integral types](#): These overloads effectively cast `x` to a `double` before calculations (defined for T being any *integral type*).

This function is also overloaded in `<complex>` and `<valarray>` (see [complex sqrt](#) and [valarray sqrt](#)).

测试

```
/* sqrt example */
#include <stdio.h>      /* printf */
#include <math.h>       /* sqrt */

int main ()
{
    double param, result;
    param = 1024.0;
    result = sqrt (param);
    printf ("sqrt(%f) = %f\n", param, result );    // sqrt(1024.000000) = 32.000000
    return 0;
}
```