

The TMaricle document class

Ivar Stangeby

January 7, 2016

1 Code Listings



A test C++ program

```
1 void main(int argc) {  
2     // a test function with comment  
3     std::cout << "a string!" << std::endl;  
4     return 0;  
5 }
```

Listing 1: testcode.cpp

2 Tables and Figures

N	Result	Absolute error	Time [sec]
5	0.1734	0.0193	0.0011
10	0.1864	0.0063	0.0675
15	0.1897	0.0030	0.8190
20	0.1910	0.0016	4.3892

Table 1: Presented is the computed integral, the absolute error in calculations as well as time elapsed for N integration steps. The time complexity of the integral itself is again $\mathcal{O}(N^6)$ however the numerical method is converging properly as opposed to the Legendre quadrature.

3 Warnings and bulletins



Test Warning

Malesuada ligula sociosqu faucibus a venenatis ridiculus ante scelerisque dui nulla leo platea condimentum vestibulum a aliquam. Libero litora ullamcorper justo diam nascetur parturient enim ad enim a nullam elit metus himenaeos dictum hac semper at adipiscing ac tempor laoreet hac parturient elementum.



Test Normal

Parturient metus senectus ut dis ante sit a id dis urna imperdiet neque fermentum vehicula consectetur varius feugiat tempus himenaeos ad nisi curabitur. Ultricies dis parturient nulla vel vestibulum sodales fames faucibus quis.



Test Critical

laculis ad ac vivamus scelerisque a ultrices a volutpat eget porta non mus scelerisque convallis dictumst. Condimentum velit consequat fringilla.

4 Proclamations

Theorem 4.1 (Euclid).

This is a test proclamation with a lot of mathematics like $x^2 = 7$ and $i^2 = -1$.

$$f(x) = x \int_2^7 g(x) dx.$$

Proof. It is easy to show the above since it follows from already proven results. \square

Lemma 4.2 (TestLemma).

Please ignore.

Proposition 4.3 (Euclid).

This is a test proclamation with a lot of mathematics like $x^2 = 7$ and $i^2 = -1$.

$$f(x) = x \int_2^7 g(x) dx.$$

Corollary 4.4 (Euclid 2).

Please ignore.

5 Colors