

Legendre		
N	Value	Error
11	0.297447	0.104681
15	0.315863	0.123098
21	0.268075	0.075310
25	0.240135	0.047370
27	0.229623	0.036858

Table 1: Fill me in!

Laguerre		
N	Value	Error
11	0.183021	0.009743
15	0.193285	0.000520
21	0.194807	0.002050
25	0.194804	0.002030
27	0.194795	0.002029

Table 2: Fill me in!

## 1 Results

### 1.1 Laguerre/Legendre

$$N \in [-5, 5]$$

### 1.2 Paralellization with openMP

Compile flags	-O3 -fopenMP	-O3	-fopenmp	no optimzation
Naive MC	12s	31s	71s	173s
Improved MC	15s	38s	79s	200s

Table 3: Shows the time spent on the same calculations with different compile parameters. ( $N = 10^8, \lambda = 5$ )