# Models

|  |  |  |  |
| --- | --- | --- | --- |
| Model | **Tyson** | **Ras** | **EARM** |
| # of reactions | 7 | 39 | 105 |
| # of species | 6 | 33 | 77 |
| atol | 1e-6 | 1e-6 | 1e-6 |
| rtol | 1e-6 | 1e-6 | 1e-6 |
| t\_end | 100 | 1500 | 20000 |
| # of outputs | 100 | 100 | 100 |
| # of observables | 8 | 33 | 3 |

# Hardware

* Tesla K20c
  + 2496 processor cores
  + 706 MHz processor core clock
  + 5 GB Memory size
  + 20 pieces of 64M x 16 GDDR5, SDRAM
  + 2.6 GHx Memory clock
  + 208 GB/sec Memory bandwidth
  + Peak double-precision 1.17 Tflops
  + Peak single-precision 3.52 Tflops
* GeForce GTX 760
  + 1152 processor cores
  + 980 MHz processor core clock
  + 2 GB Memory size
  + 192.2 GB/sec Memory bandwidth
  + Peak double-precision .99 Tflops
  + Peak single-precision 2.26 Tflops
* GeForce Gt 755M
  + 384 processor cores
  + 980 MHz processor core clock
  + 2 GB Memory size
  + 86.4 GB/sec Memory bandwidth
  + Peak double-precision .99 Tflops
  + Peak single-precision .75 Tflops
* Intel i7- 4820K Ivy Bridge E
  + 4 core
  + 8 threads
  + 3.70 GHz processor base frequency
  + 3.90 GHz Turbo frequency
  + 16GB Memory
  + 10 MB Cache

# Software

* Python 2.7.6
* SciPy 0.15.1
* NumPy 1.9.2
* gcc (Ubuntu 4.8.2-19ubuntu1) 4.8.2
* GNU Fortran (Ubuntu 4.8.2-19ubuntu1) 4.8.2