

| <i>Program</i> | <i>Specification</i> |
|------------------------|---|
| <i>analytic</i> | evaluate $1/2^{20}$ with a simple algorithm |
| <i>e_example</i> | calculate Euler's number $e \approx 2.718...$ with $\sum_{i=0}^n 1/i!$ |
| <i>float_extension</i> | evaluate $2 + \sum_{i=1}^{100,000} 1/\sqrt{i}$ |
| <i>gamma_bernoulli</i> | generate the Euler-Mascheroni constant $\gamma \approx 0.577...$ with Stirling's approximation |
| <i>harmonic</i> | evaluate the sum of the first $5E+07$ terms of the harmonic series |
| <i>itsyst</i> | iteratively evaluate $x_{i+1} = 3.75x_i(1 - x_i)$ with different inputs and calculation orders. |
| <i>itsyst2</i> | |
| <i>itsyst3</i> | |
| <i>jmmuler</i> | iteratively evaluate $x_{i+2} = 3000/(1130 - x_i(111 - x_{i+1}))$ |
| <i>jmmuler2</i> | with different inputs and calculation orders. |
| <i>lambov</i> | calculate the remainder of taylor series |