|  |  |  |
| --- | --- | --- |
| Name | Mass [kg] | Radius [km] |
| Mercury |  |  |
| Venus |  |  |
| Earth-moon Barycenter | (earth only)  (duo) |  |
| Mars |  |  |
| Jupiter |  |  |
| Saturn |  |  |
| Uranus |  |  |
| Neptune |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Positions (au) | | | |
| Mercury | -2.503321047836E-01 | +1.873217481656E-01 | +1.260230112145E-01 |
| Venus | +1.747780055994E-02 | -6.624210296743E-01 | -2.991203277122E-01 |
| Earth-Moon Baryc. | -9.091916173950E-01 | +3.592925969244E-01 | +1.557729610506E-01 |
| Mars | +1.203018828754E+00 | +7.270712989688E-01 | +3.009561427569E-01 |
| Jupiter | +3.733076999471E+00 | +3.052424824299E+00 | +1.217426663570E+00 |
| Saturn | +6.164433062913E+00 | +6.366775402981E+00 | +2.364531109847E+00 |
| Uranus | +1.457964661868E+01 | -1.236891078519E+01 | -5.623617280033E+00 |
| Neptune | +1.695491139909E+01 | -2.288713988623E+01 | -9.789921035251E+00 |
| Pluto | -9.707098450131E+00 | -2.804098175319E+01 | -5.823808919246E+00 |
| Velocities (au/d) | | | |
| Mercury | -2.438808424736E-02 | -1.850224608274E-02 | -7.353811537540E-03 |
| Venus | +2.008547034175E-02 | +8.365454832702E-04 | -8.947888514893E-04 |
| Earth-Moon Baryc. | -7.085843239142E-03 | -1.455634327653E-02 | -6.310912842359E-03 |
| Mars | -7.124453943885E-03 | +1.166307407692E-02 | +5.542098698449E-03 |
| Jupiter | -5.086540617947E-03 | +5.493643783389E-03 | +2.478685100749E-03 |
| Saturn | -4.426823593779E-03 | +3.394060157503E-03 | +1.592261423092E-03 |
| Uranus | +2.647505630327E-03 | +2.487457379099E-03 | +1.052000252243E-03 |
| Neptune | +2.568651772461E-03 | +1.681832388267E-03 | +6.245613982833E-04 |
| Pluto | +3.034112963576E-03 | -1.111317562971E-03 | -1.261841468083E-03 |