

MATLAB® Test Report

Timestamp: 16-Mar-2025 16:19:16

Host: fv-az2027-885

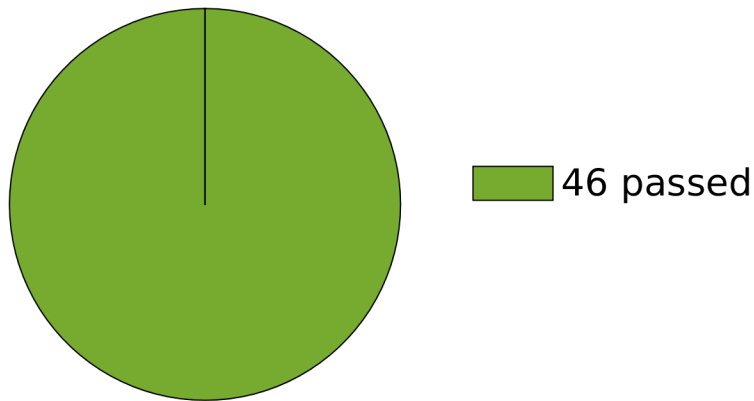
Platform: glnxa64

MATLAB Version: 24.2.0.2863752 (R2024b) Update 5






Number of Tests: 46

Testing Time: 2.9647 seconds

Overall Result: PASSED



Overview

<u>/home/runner/work/astroDynamics/astroDynamics/classes/src/MassiveBodies/SphericalMass/test/</u>		
<u>SphericalMassDynamics_test</u>		1.5334 seconds
<u>SphericalMassOperatorOverload_test</u>		0.0252 seconds
<u>SphericalMass_test</u>		0.0740 seconds
<u>/home/runner/work/astroDynamics/astroDynamics/classes/src/Universe/test/</u>		
<u>Universe_test</u>		0.1089 seconds
<u>/home/runner/work/astroDynamics/astroDynamics/classes/src/UniverseSimulation/test/</u>		
<u>UniverseSimulationIntegration_test</u>		1.2232 seconds

Details

/home/runner/work/astroDynamics/astroDynamics/classes/src/MassiveBodies/SphericalMass/test/

SphericalMassDynamics_test

✔ checkCalculateDeltaTselfZeroVelocity

Test Tags: MatlabUnitTest

The test passed.
Duration: 1.4839 seconds

(Overview)

✔ checkCalculateDeltaTselfFiniteVelocity

Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0071 seconds

(Overview)

✔ checkDynamicCentralMassAction

Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0424 seconds

(Overview)

SphericalMassOperatorOverload_test

✔ checkPlusOperatorOverload

The test passed.
Duration: 0.0252 seconds

[\(Overview\)](#)

SphericalMass_test

✔ checkConstructor_0args

Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0066 seconds

[\(Overview\)](#)

✔ checkConstructor_2args

Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0030 seconds

[\(Overview\)](#)

✔ checkConstructor_4args

Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0028 seconds

[\(Overview\)](#)

✔ checkConstructor_6args

Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0013 seconds

[\(Overview\)](#)

✔ checkRadius

Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0027 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionOutsideSphere

Test Parameters: deltaPos=-7
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0057 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionOutsideSphere
Test Parameters: deltaPos=-5
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0044 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionOutsideSphere
Test Parameters: deltaPos=-3
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0068 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionOutsideSphere
Test Parameters: deltaPos=-1
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0031 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionOutsideSphere
Test Parameters: deltaPos=1
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0040 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionOutsideSphere
Test Parameters: deltaPos=3
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionOutsideSphere
Test Parameters: deltaPos=5
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

[\(Overview\)](#)

✔ checkForceDensityXDirectionOutsideSphere

Test Parameters: deltaPos=7

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0001 seconds

[\(Overview\)](#)

✔ checkForceDensityYDirectionOutsideSphere

Test Parameters: deltaPos=-7

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0024 seconds

[\(Overview\)](#)

✔ checkForceDensityYDirectionOutsideSphere

Test Parameters: deltaPos=-5

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0014 seconds

[\(Overview\)](#)

✔ checkForceDensityYDirectionOutsideSphere

Test Parameters: deltaPos=-3

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0013 seconds

[\(Overview\)](#)

✔ checkForceDensityYDirectionOutsideSphere

Test Parameters: deltaPos=-1

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0014 seconds

[\(Overview\)](#)

✔ checkForceDensityYDirectionOutsideSphere

Test Parameters: deltaPos=1

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0037 seconds

[\(Overview\)](#)

✔ checkForceDensityYDirectionOutsideSphere

Test Parameters: deltaPos=3

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0001 seconds

[\(Overview\)](#)

✔ checkForceDensityYDirectionOutsideSphere

Test Parameters: deltaPos=5

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0001 seconds

[\(Overview\)](#)

✔ checkForceDensityYDirectionOutsideSphere

Test Parameters: deltaPos=7

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0001 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionInsideSphere

Test Parameters: deltaPos=-7

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0031 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionInsideSphere

Test Parameters: deltaPos=-5

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0020 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionInsideSphere

Test Parameters: deltaPos=-3

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0014 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionInsideSphere

Test Parameters: deltaPos=-1

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0014 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionInsideSphere

Test Parameters: deltaPos=1

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0037 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionInsideSphere

Test Parameters: deltaPos=3

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0006 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionInsideSphere

Test Parameters: deltaPos=5

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0001 seconds

[\(Overview\)](#)

✔ checkForceDensityXdirectionInsideSphere

Test Parameters: deltaPos=7

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0001 seconds

[\(Overview\)](#)

✔ checkForceDensityYdirectionInsideSphere

Test Parameters: deltaPos=-7

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0024 seconds

[\(Overview\)](#)

✔ checkForceDensitydirectionInsideSphere
Test Parameters: deltaPos=-5
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0014 seconds

[\(Overview\)](#)

✔ checkForceDensitydirectionInsideSphere
Test Parameters: deltaPos=-3
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0013 seconds

[\(Overview\)](#)

✔ checkForceDensitydirectionInsideSphere
Test Parameters: deltaPos=-1
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0014 seconds

[\(Overview\)](#)

✔ checkForceDensitydirectionInsideSphere
Test Parameters: deltaPos=1
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0037 seconds

[\(Overview\)](#)

✔ checkForceDensitydirectionInsideSphere
Test Parameters: deltaPos=3
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

[\(Overview\)](#)

✔ checkForceDensitydirectionInsideSphere
Test Parameters: deltaPos=5
Test Tags: MatlabUnitTest

The test passed.
Duration: 0.0001 seconds

[\(Overview\)](#)

✔ checkForceDensitydirectionInsideSphere

Test Parameters: deltaPos=7

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0001 seconds

[\(Overview\)](#)

/home/runner/work/astroDynamics/astroDynamics/classes/src/Universe/test/

Universe_test

✔ checkUniverseConstructor

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0139 seconds

[\(Overview\)](#)

✔ checkUniverseAddMassiveBody

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0058 seconds

[\(Overview\)](#)

✔ checkCalculateDeltaT

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0352 seconds

[\(Overview\)](#)

✔ checkTimePropagateUniverse

Test Tags: MatlabUnitTest

The test passed.

Duration: 0.0540 seconds

[\(Overview\)](#)

/home/runner/work/astroDynamics/astroDynamics/classes/src/UniverseSimulation/test/

UniverseSimulationIntegration_test

✔ twoBodyCirculation

The test passed.

Duration: 1.2232 seconds

[\(Overview\)](#)