

LFM-MIX-1.0.0

Table of Contents

- [LFM-MIX 1.0.0](#)
 - [Notes](#)
 - [RMS Error tolerances](#)
 - [Timestep RMS Error Results](#)
 - [Bluefire](#)
 - [Tor](#)
 - [Twister](#)
 - [wJet](#)
 - [UTIO RMS Error Results](#)
 - [Bluefire](#)
 - [Tor](#)
 - [Twister](#)
 - [wJet](#)

LFM-MIX 1.0.0

Initial LFM-MIX release

Download:

- https://io.bu.edu/distro/LFM-MIX-1_0-pre_valid.tar.gz (Login required--[Contact us](#) for an account)

Notes

- Repository revision 515

RMS Error tolerances

N/A

Timestep RMS Error Results

N/A

Bluefire

64-bit AIX Power6; IBM XL compilers

```
../../../../common/bin/RMSerror 1 TimestepRun_mhd_0080000.hdf TimestepRun_mhd_0080000.dmp vx\_ 0.05
0.00625772
../../../../common/bin/RMSerror 1 TimestepRun_mhd_0080000.hdf TimestepRun_mhd_0080000.dmp bx\_ 0.05
1.04935e-06
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080005.dmp TimestepRun_mhd_0080005.dmp vx\_ 0.15
5.05361e-07
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080005.dmp TimestepRun_mhd_0080005.dmp bx\_ 0.15
WARNING: { (base_data - test_data) < machine roundoff } at every point for variable "bx_"!
0
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080010.dmp TimestepRun_mhd_0080010.dmp vx\_ 0.2
1.32274e-05
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080010.dmp TimestepRun_mhd_0080010.dmp bx\_ 0.15
WARNING: { (base_data - test_data) < machine roundoff } at every point for variable "bx_"!
```

Tor

32-bit Linux; GNU C/C++, Portland Fortran

```

../../../../common/bin/RMSerror 1 TimestepRun_mhd_0080000.hdf TimestepRun_mhd_0080000.dmp vx_ 0.05
0.00625772
../../../../common/bin/RMSerror 1 TimestepRun_mhd_0080000.hdf TimestepRun_mhd_0080000.dmp bx_ 0.05
1.04945e-06
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080005.dmp TimestepRun_mhd_0080005.dmp vx_ 0.15
0.0571835
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080005.dmp TimestepRun_mhd_0080005.dmp bx_ 0.15
1.05847e-05
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080010.dmp TimestepRun_mhd_0080010.dmp vx_ 0.2
0.0589685
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080010.dmp TimestepRun_mhd_0080010.dmp bx_ 0.15
2.77121e-05

```

Twister

32-bit AIX, IBM compilers

```

../../../../common/bin/RMSerror 1 TimestepRun_mhd_0080000.hdf TimestepRun_mhd_0080000.dmp vx\_ 0.05 0.00625772
../../../../common/bin/RMSerror 1 TimestepRun_mhd_0080000.hdf TimestepRun_mhd_0080000.dmp bx\_ 0.05
1.04935e-06
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080005.dmp TimestepRun_mhd_0080005.dmp vx\_ 0.15
0.000163813
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080005.dmp TimestepRun_mhd_0080005.dmp bx\_ 0.15
WARNING: { (base_data - test_data) < machine roundoff } at every point for variable "bx_"!
0
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080010.dmp TimestepRun_mhd_0080010.dmp vx\_ 0.2
0.000495226
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080010.dmp TimestepRun_mhd_0080010.dmp bx\_ 0.15
WARNING: { (base_data - test_data) < machine roundoff } at every point for variable "bx_"!
0

```

wJet

64-bit Linux; Intel compilers

```

../../../../common/bin/RMSerror 1 TimestepRun_mhd_0080000.hdf TimestepRun_mhd_0080000.dmp vx_ 0.05
0.00625772
../../../../common/bin/RMSerror 1 TimestepRun_mhd_0080000.hdf TimestepRun_mhd_0080000.dmp bx_ 0.05
1.04611e-06
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080005.dmp TimestepRun_mhd_0080005.dmp vx_ 0.15
0.0665223
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080005.dmp TimestepRun_mhd_0080005.dmp bx_ 0.15
1.2421e-05
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080010.dmp TimestepRun_mhd_0080010.dmp vx_ 0.2
0.0762249
../../../../common/bin/RMSerror 1 BaseRun_mhd_0080010.dmp TimestepRun_mhd_0080010.dmp bx_ 0.15
3.24128e-05

```

UTIO RMS Error Results

Bluefire

64-bit AIX Power6; IBM XL compilers

```

../../../../common/bin/RMSerror 1 UTIORun_mhd_2008-01-01T04-00-00Z.hdf UTIORun_mhd_2008-01-01T04-00-00Z.dmp vx\_
0.02
0.00293539
../../../../common/bin/RMSerror 1 UTIORun_mhd_2008-01-01T04-00-00Z.hdf UTIORun_mhd_2008-01-01T04-00-00Z.dmp bx\_
0.01
0.000196225
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-01Z.dmp UTIORun_mhd_2008-01-01T04-00-01Z.dmp vx\_
0.2
8.22018e-07
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-01Z.dmp UTIORun_mhd_2008-01-01T04-00-01Z.dmp bx\_
0.15
WARNING: { (base_data - test_data) < machine roundoff } at every point for variable "bx_"!
0
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-02Z.dmp UTIORun_mhd_2008-01-01T04-00-02Z.dmp vx\_
0.2
3.34519e-06
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-02Z.dmp UTIORun_mhd_2008-01-01T04-00-02Z.dmp bx\_
0.15
WARNING: { (base_data - test_data) < machine roundoff } at every point for variable "bx_"!
0

```

Tor

32-bit Linux; GNU C/C++, Portland Fortran

```

../../../../common/bin/RMSerror 1 UTIORun_mhd_2008-01-01T04-00-00Z.hdf UTIORun_mhd_2008-01-01T04-00-00Z.dmp vx\_
0.02
0.00293539
../../../../common/bin/RMSerror 1 UTIORun_mhd_2008-01-01T04-00-00Z.hdf UTIORun_mhd_2008-01-01T04-00-00Z.dmp bx\_
0.01
0.000196228
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-01Z.dmp UTIORun_mhd_2008-01-01T04-00-01Z.dmp vx\_ 0.2
0.0579236
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-01Z.dmp UTIORun_mhd_2008-01-01T04-00-01Z.dmp bx\_
0.15
1.3204e-05
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-02Z.dmp UTIORun_mhd_2008-01-01T04-00-02Z.dmp vx\_ 0.2
0.0600345
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-02Z.dmp UTIORun_mhd_2008-01-01T04-00-02Z.dmp bx\_
0.15
3.3788e-05

```

Twister

32-bit AIX, IBM compilers

```

../../../../common/bin/RMSerror 1 UTIORun_mhd_2008-01-01T04-00-00Z.hdf UTIORun_mhd_2008-01-01T04-00-00Z.dmp vx\_
0.02
0.00293539
../../../../common/bin/RMSerror 1 UTIORun_mhd_2008-01-01T04-00-00Z.hdf UTIORun_mhd_2008-01-01T04-00-00Z.dmp bx\_
0.01
0.000196225
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-01Z.dmp UTIORun_mhd_2008-01-01T04-00-01Z.dmp vx\_
0.2
0.000170612
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-01Z.dmp UTIORun_mhd_2008-01-01T04-00-01Z.dmp bx\_
0.15
WARNING: { (base_data - test_data) < machine roundoff } at every point for variable "bx_"\!
0
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-02Z.dmp UTIORun_mhd_2008-01-01T04-00-02Z.dmp vx\_
0.2
0.00044596
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-02Z.dmp UTIORun_mhd_2008-01-01T04-00-02Z.dmp bx\_
0.15
WARNING: { (base_data - test_data) < machine roundoff } at every point for variable "bx_"\!
0

```

wJet

64-bit Linux; Intel compilers

```

../../../../common/bin/RMSerror 1 UTIORun_mhd_2008-01-01T04-00-00Z.hdf UTIORun_mhd_2008-01-01T04-00-00Z.dmp vx\_
0.02
0.00293539
../../../../common/bin/RMSerror 1 UTIORun_mhd_2008-01-01T04-00-00Z.hdf UTIORun_mhd_2008-01-01T04-00-00Z.dmp bx\_
0.01
0.000196225
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-01Z.dmp UTIORun_mhd_2008-01-01T04-00-01Z.dmp vx\_ 0.2
0.0665964
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-01Z.dmp UTIORun_mhd_2008-01-01T04-00-01Z.dmp bx\_
0.15
1.67226e-05
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-02Z.dmp UTIORun_mhd_2008-01-01T04-00-02Z.dmp vx\_ 0.2
0.0766516
../../../../common/bin/RMSerror 1 BaseRun_mhd_2008-01-01T04-00-02Z.dmp UTIORun_mhd_2008-01-01T04-00-02Z.dmp bx\_
0.15
4.40838e-05

```