RAMSES test suite results

ubuntu

October 19, 2019

Commit hash: **ec23bd**

Test run summary using 4 processor(s)

<table>
<thead>
<tr>
<th>Test name</th>
<th>Run time</th>
<th>Total time</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydro/implosion</td>
<td>0h1m13s</td>
<td>0h1m46s</td>
<td>passed</td>
</tr>
<tr>
<td>hydro/sod-tube</td>
<td>0h0m0s</td>
<td>0h0m28s</td>
<td>passed</td>
</tr>
<tr>
<td>mhd/imhd-tube</td>
<td>0h0m3s</td>
<td>0h0m35s</td>
<td>passed</td>
</tr>
<tr>
<td>mhd/orszag-tang</td>
<td>0h1m38s</td>
<td>0h2m15s</td>
<td>passed</td>
</tr>
<tr>
<td>rt/stromgren2d</td>
<td>0h0m25s</td>
<td>0h1m6s</td>
<td>passed</td>
</tr>
<tr>
<td>sink/smbh-bondi</td>
<td>0h1m3s</td>
<td>0h2m12s</td>
<td>passed</td>
</tr>
</tbody>
</table>

Total run time (including compilations): **0h8m26s**
Figure 1: hydro/implosion test

Table 1: implosion error summary

<table>
<thead>
<tr>
<th>Variable</th>
<th>This run</th>
<th>Reference</th>
<th>Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>boxlen</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>density</td>
<td>-3.2489384827987228e+03</td>
<td>-3.2489384827987228e+03</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>dx</td>
<td>9.7671875000000000e+01</td>
<td>9.7671875000000000e+01</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>level</td>
<td>1.1594500000000000e+05</td>
<td>1.1594500000000000e+05</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>ncells</td>
<td>1.5349000000000000e+04</td>
<td>1.5349000000000000e+04</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>pressure</td>
<td>-9.8425832051307543e+02</td>
<td>-9.8425832051307543e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>time</td>
<td>5.0041662782999197e+00</td>
<td>5.0041662782999197e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>unit d</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>unit l</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>unit t</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>velocity x</td>
<td>8.0459072052113027e+02</td>
<td>8.0459072052113027e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>velocity y</td>
<td>8.0459072052125360e+02</td>
<td>8.0459072052125360e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>x</td>
<td>4.9655703125000000e+03</td>
<td>4.9655703125000000e+03</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>y</td>
<td>4.9655703125000000e+03</td>
<td>4.9655703125000000e+03</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>z</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
</tbody>
</table>
Table 2: sod-tube error summary

<table>
<thead>
<tr>
<th>Variable</th>
<th>This run</th>
<th>Reference</th>
<th>Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>boxlen</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>density</td>
<td>-6.2283208883831371e+01</td>
<td>-6.2283208883831371e+01</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>dx</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>level</td>
<td>1.1010000000000000e+03</td>
<td>1.1010000000000000e+03</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>ncells</td>
<td>1.4200000000000000e+02</td>
<td>1.4200000000000000e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>pressure</td>
<td>-6.8864503408245511e+01</td>
<td>-6.8864503408245525e+01</td>
<td>2.0635964846731855e-16</td>
</tr>
<tr>
<td>time</td>
<td>2.4504723587196506e-01</td>
<td>2.4504723587196506e-01</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>unit d</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>unit l</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>unit t</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>velocity x</td>
<td>8.7630269431102150e+01</td>
<td>8.7630269431102136e+01</td>
<td>1.6216833301391427e-16</td>
</tr>
<tr>
<td>x</td>
<td>9.0823241875000000e+01</td>
<td>9.0823241875000000e+01</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>y</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>z</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
</tbody>
</table>
Figure 3: mhd/imhd-tube test

Table 3: imhd-tube error summary

<table>
<thead>
<tr>
<th>Variable</th>
<th>This run</th>
<th>Reference</th>
<th>Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>B x left</td>
<td>4.3700000000000000e+02</td>
<td>4.3700000000000000e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>B x right</td>
<td>4.3700000000000000e+02</td>
<td>4.3700000000000000e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>B y left</td>
<td>2.3391683489759890e+02</td>
<td>2.3391683489759890e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>B y right</td>
<td>2.3391683489759890e+02</td>
<td>2.3391683489759890e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>B z left</td>
<td>4.5872245532670732e+01</td>
<td>4.5872245532670732e+01</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>B z right</td>
<td>4.5872245532670732e+01</td>
<td>4.5872245532670732e+01</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>boxlen</td>
<td>3.5000000000000000e+00</td>
<td>3.5000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
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<td>density</td>
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<td>-1.4066192896319757e+02</td>
<td>0.0000000000000000e+00</td>
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<tr>
<td>dx</td>
<td>3.5000000000000000e+00</td>
<td>3.5000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>level</td>
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<td>4.9060000000000000e+03</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
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<td>4.3700000000000000e+02</td>
<td>0.0000000000000000e+00</td>
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<tr>
<td>pressure</td>
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<td>-1.28487542042584e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
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<td>0.0000000000000000e+00</td>
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<tr>
<td>unit d</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>unit l</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>unit t</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>velocity x</td>
<td>9.3897631695548837e-02</td>
<td>9.3897631695548837e-02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>velocity y</td>
<td>4.050391458611451e+02</td>
<td>4.050391458611451e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>velocity z</td>
<td>4.4181525014765903e-01</td>
<td>4.4181525014765903e-01</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>x</td>
<td>7.193459472656250e+02</td>
<td>7.193459472656250e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>y</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>z</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
</tbody>
</table>
Table 4: orszag-tang error summary

<table>
<thead>
<tr>
<th>Variable</th>
<th>This run</th>
<th>Reference</th>
<th>Error</th>
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</thead>
<tbody>
<tr>
<td>B x left</td>
<td>2.26728255644469846e+04</td>
<td>2.26728255644469846e+04</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>B x right</td>
<td>2.26728255644469846e+04</td>
<td>2.26728255644469846e+04</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>B y left</td>
<td>2.4171115525910489e+04</td>
<td>2.4171115525910489e+04</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>B y right</td>
<td>2.4171115525910489e+04</td>
<td>2.4171115525910489e+04</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>B z left</td>
<td>0.00000000000000000e+00</td>
<td>0.00000000000000000e+00</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>B z right</td>
<td>0.00000000000000000e+00</td>
<td>0.00000000000000000e+00</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>boxlen</td>
<td>1.00000000000000000e+00</td>
<td>1.00000000000000000e+00</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>density</td>
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<td>-6.869526774466649e+04</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
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<td>2.80000000000000000e+02</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>level</td>
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<td>8.62432000000000000e-05</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>ncells</td>
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<td>1.00000000000000000e+05</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>pressure</td>
<td>-8.828049262311819e-04</td>
<td>-8.828049262311819e-04</td>
<td>0.00000000000000000e+00</td>
</tr>
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<td>time</td>
<td>5.0191436955161295e-01</td>
<td>5.0191436955161295e-01</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>unit d</td>
<td>1.00000000000000000e+00</td>
<td>1.00000000000000000e+00</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>unit t</td>
<td>1.00000000000000000e+00</td>
<td>1.00000000000000000e+00</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>velocity x</td>
<td>3.8430367312560731e-04</td>
<td>3.8430367312560731e-04</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>velocity y</td>
<td>3.6141593808548649e-04</td>
<td>3.6141593808548649e-04</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
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<td>5.00330000000000000e-04</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>x</td>
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<td>5.00330000000000000e-04</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>y</td>
<td>5.00330000000000000e-04</td>
<td>5.00330000000000000e-04</td>
<td>0.00000000000000000e+00</td>
</tr>
<tr>
<td>z</td>
<td>5.00330000000000000e-04</td>
<td>5.00330000000000000e-04</td>
<td>0.00000000000000000e+00</td>
</tr>
</tbody>
</table>
Figure 5: rt/stronlgren2d test

Table 5: stronlgren2d error summary

<table>
<thead>
<tr>
<th>Variable</th>
<th>This run</th>
<th>Reference</th>
<th>Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>boxlen</td>
<td>1.0000000000000000e+00</td>
<td>1.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>density</td>
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<td>-1.645279294073272e+04</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
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<td>1.2800000000000000e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>level</td>
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<td>1.1000000000000000e+05</td>
<td>0.0000000000000000e+00</td>
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<tr>
<td>metallicity</td>
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<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>ncells</td>
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<td>1.6384000000000000e+04</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>pressure</td>
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<td>-8.1662898796350375e+04</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>scalar 01</td>
<td>4.3828590045937954e+03</td>
<td>4.3828590045937954e+03</td>
<td>0.0000000000000000e+00</td>
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<tr>
<td>scalar 02</td>
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<td>1.6384000000000000e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>scalar 03</td>
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<td>1.6384000000000000e+02</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
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<td>1.5003966839451200e+01</td>
<td>1.5003966839451200e+01</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>unit d</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>unit 1</td>
<td>3.0900000000000000e+21</td>
<td>3.0900000000000000e+21</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
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<td>3.1556926000000000e+13</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>velocity x</td>
<td>8.794953559720272e+00</td>
<td>8.794953559720272e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>velocity y</td>
<td>8.794953559720290e+00</td>
<td>8.794953559720290e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>x</td>
<td>8.1920000000000000e+03</td>
<td>8.1920000000000000e+03</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>y</td>
<td>8.1920000000000000e+03</td>
<td>8.1920000000000000e+03</td>
<td>0.0000000000000000e+00</td>
</tr>
<tr>
<td>z</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
<td>0.0000000000000000e+00</td>
</tr>
</tbody>
</table>
Figure 6: sink/smbh-bondi test
Table 6: smbh-bondi error summary

<table>
<thead>
<tr>
<th>Variable</th>
<th>This run</th>
<th>Reference</th>
<th>Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>boxlen</td>
<td>1.0000000000e+00</td>
<td>1.0000000000e+00</td>
<td>0.0000000000e+00</td>
</tr>
<tr>
<td>density</td>
<td>-4.1944974248017864e+06</td>
<td>-4.1944974248017864e+06</td>
<td>0.0000000000e+00</td>
</tr>
<tr>
<td>dx</td>
<td>1.6384000000000000e+04</td>
<td>1.6384000000000000e+04</td>
<td>0.0000000000e+00</td>
</tr>
<tr>
<td>level</td>
<td>1.4680640000000000e+00</td>
<td>1.4680640000000000e+00</td>
<td>0.0000000000e+00</td>
</tr>
<tr>
<td>ncells</td>
<td>2.0971520000000000e+06</td>
<td>2.0971520000000000e+06</td>
<td>0.0000000000e+00</td>
</tr>
<tr>
<td>pressure</td>
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<td>-1.6970166649505414e+07</td>
<td>0.0000000000e+00</td>
</tr>
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<td>sink acc rate</td>
<td>1.1536428047000000e+00</td>
<td>1.1536428047000000e+00</td>
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<td>sink cs**2</td>
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<td>1.1182954377000000e+00</td>
<td>0.0000000000e+00</td>
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<td>sink del mass</td>
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<td>3.4689314105000000e-06</td>
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<td>sink id</td>
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<td>1.0000000000000000e+00</td>
<td>0.0000000000e+00</td>
</tr>
<tr>
<td>sink level</td>
<td>7.0000000000000000e+00</td>
<td>7.0000000000000000e+00</td>
<td>0.0000000000e+00</td>
</tr>
<tr>
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