

湖北个例模拟情况

模拟时间为2016年6月30日，00时至12时

时间步长为15s，微物理方案为8，计算了1小时15分

```
met_em.d01.2016-07-01_00:00:00.nc  rsl.error.0010
met_em.d01.2016-07-01_06:00:00.nc  rsl.error.0011
met_em.d01.2016-07-01_12:00:00.nc  rsl.error.0012
met_em.d01.2016-07-01_18:00:00.nc  rsl.error.0013
met_em.d02.2016-06-30_00:00:00.nc  rsl.error.0014
met_em.d02.2016-06-30_06:00:00.nc  rsl.error.0015
met_em.d02.2016-06-30_12:00:00.nc  rsl.error.0016
liuxl@log03 ~/W/run> tail rsl.error.0000
Timing for main: time 2016-06-30_00:00:45 on domain 2: 0.7965
Timing for main: time 2016-06-30_00:00:45 on domain 1: 3.2348
Timing for main: time 2016-06-30_00:00:50 on domain 2: 0.8116
Timing for main: time 2016-06-30_00:00:55 on domain 2: 0.8122
Timing for main: time 2016-06-30_00:01:00 on domain 2: 0.8099
Timing for main: time 2016-06-30_00:01:00 on domain 1: 3.2267
Timing for main: time 2016-06-30_00:01:05 on domain 2: 1.0362
Timing for main: time 2016-06-30_00:01:10 on domain 2: 0.8716
Timing for main: time 2016-06-30_00:01:15 on domain 2: 0.8667
Timing for main: time 2016-06-30_00:01:15 on domain 1: 3.6710
liuxl@log03 ~/W/run>
```

时间步长为5s，微物理方案为8，计算了3小时7分

```
met_em.d01.2016-07-01_18:00:00.nc  rsl.error.0018
met_em.d02.2016-06-30_00:00:00.nc  rsl.error.0019
met_em.d02.2016-06-30_06:00:00.nc  rsl.error.0020
met_em.d02.2016-06-30_12:00:00.nc  rsl.error.0021
met_em.d02.2016-06-30_18:00:00.nc  rsl.error.0022
met_em.d02.2016-07-01_00:00:00.nc  rsl.error.0023
met_em.d02.2016-07-01_06:00:00.nc  rsl.error.0024
met_em.d02.2016-07-01_12:00:00.nc  rsl.error.0025
rsl.error.0074 rs
rsl.error.0075 rs
rsl.error.0076 rs
rsl.error.0077 rs
rsl.error.0078 rs
rsl.error.0079 rs
rsl.error.0080 rs
rsl.error.0081 rs
liuxl@log03 ~/W/t/em_real> tail rsl.error.0000
Timing for main: time 2016-06-30_03:07:15 on domain 1: 3.32180 elapsed seconds
Timing for main: time 2016-06-30_03:07:16 on domain 2: 0.86349 elapsed seconds
Timing for main: time 2016-06-30_03:07:18 on domain 2: 0.88341 elapsed seconds
Timing for main: time 2016-06-30_03:07:20 on domain 2: 0.88076 elapsed seconds
Timing for main: time 2016-06-30_03:07:20 on domain 1: 3.37536 elapsed seconds
Timing for main: time 2016-06-30_03:07:21 on domain 2: 0.86842 elapsed seconds
Timing for main: time 2016-06-30_03:07:23 on domain 2: 0.88344 elapsed seconds
Timing for main: time 2016-06-30_03:07:25 on domain 2: 0.88459 elapsed seconds
Timing for main: time 2016-06-30_03:07:25 on domain 1: 3.39772 elapsed seconds
Timing for main: time 2016-06-30_03:07:26 on domain 2: 0.83968 elapsed seconds
liuxl@log03 ~/W/t/em_real>
```

时间步长为2s，微物理方案16。计算7小时14分停止

```

liuxl@log04 ~/W/t/em_real> tail rsl.error.0000
Timing for main: time 2016-06-30_07:14:14 on domain 1: 3.30181 elapsed seconds
Timing for main: time 2016-06-30_07:14:14 on domain 2: 0.81516 elapsed seconds
Timing for main: time 2016-06-30_07:14:15 on domain 2: 0.82535 elapsed seconds
Timing for main: time 2016-06-30_07:14:16 on domain 2: 0.82376 elapsed seconds
Timing for main: time 2016-06-30_07:14:16 on domain 1: 3.44150 elapsed seconds
Timing for main: time 2016-06-30_07:14:16 on domain 2: 0.81334 elapsed seconds
Timing for main: time 2016-06-30_07:14:17 on domain 2: 0.82494 elapsed seconds
Timing for main: time 2016-06-30_07:14:18 on domain 2: 0.82348 elapsed seconds
Timing for main: time 2016-06-30_07:14:18 on domain 1: 3.17934 elapsed seconds
Timing for main: time 2016-06-30_07:14:18 on domain 2: 0.82354 elapsed seconds
liuxl@log04 ~/W/t/em_real> cat sub-s.sh
#!/bin/bash
#PBS -N mkr_ys_2
#PBS -S /bin/bash
#PBS -q Longtime
#PBS -l nodes=3:ppn=28
#PBS -l walltime=12:00:00
#PBS -e jobname.err
cd $PBS_O_WORKDIR
nprocs=`cat $PBS_NODEFILE | wc -l`
mpirun -np $nprocs ./wrf.exe
liuxl@log04 ~/W/t/em_real>

```

时间步长为5s，微物理方案9。提交作业没有输出文件wrfout，和报错文件rsl

时间步长为15s，微物理方案9。提交作业没有输出文件wrfout，和报错文件rsl

目前进度：在尝试Thomphon(8)微物理方案和Milbrandt 2-mom(9)微观物方案能否正常积分。昨天提交作业出现互信问题，问题在于.ssh文件权限问题，使作业没有真正提交成功。所以没有输出文件和报错文件，目前该情况已解决。由于征信问题也会导致作业莫名其妙停下来，所以不清楚，之前停下来是否因为互信问题。

附件

为什么需要不同服务器之间的ssh互信？

我们在log节点（log01 - log05）上提交作业之后，作业执行的信息是通过 ssh 传到计算节点上进行运算。

如何测试账号的 ssh 互信是否正常？

如果你能够从一个登录节点（例如log01）用 ssh 无密码登录另一个节点（例如log02），你的账号应该是没

如何保证你的账号设置正常？

如果你发现你的账号不能无密码登录其它的log节点，请先运行下面三个指令：

```

chmod 750 $HOME
chmod 700 $HOME/.ssh
chmod 600 $HOME/.ssh/*

```

然后再测试是否能够无密码登录其它log节点。如果还有问题，就运行 "chmod 700 \$HOME"，然后再试。如果

