

**Subject:** Job 7675808: <#!/bin/bash;# rbox\_m300.sh 6/20/21 D.C.;# Run boxpc.py in parallel with charm4py using mpirun;module load openmpi/4.0.1;export OMPI\_MCA\_opal\_warn\_on\_missing\_libcuda=0;export OMPI\_MCA\_btl\_openib\_allow\_ib=1;ulimit -s 10240;#BSUB -q large;#BSUB -n 300;#BSUB -W 0:10;#BSUB -R rusage[mem=1000];#BSUB -R span[ptile=20];export pproc=c4p;mpirun -np 300 python boxpc.py boxtest16-22 > in cluster <umghpcc> Exited  
**From:** LSF <lsfadmin@ghpcc06.umassrc.org>  
**Date:** 1/20/22, 9:53 AM  
**To:** <dc82a@ghpcc06.umassrc.org>

Job <#!/bin/bash;# rbox\_m300.sh 6/20/21 D.C.;# Run boxpc.py in parallel with charm4py using mpirun;module load openmpi/4.0.1;export OMPI\_MCA\_opal\_warn\_on\_missing\_libcuda=0;export OMPI\_MCA\_btl\_openib\_allow\_ib=1;ulimit -s 10240;#BSUB -q large;#BSUB -n 300;#BSUB -W 0:10;#BSUB -R rusage[mem=1000];#BSUB -R span[ptile=20];export pproc=c4p;mpirun -np 300 python boxpc.py boxtest16-22 > was submitted from host <ghpcc06> by user <dc82a> in cluster <umghpcc> at Wed Jan 19 14:29:40 2022  
Job was executed on host(s) <20\*c22b08>, in queue <large>, as user <dc82a> in cluster <umghpcc> at Thu Jan 20 09:52:30 2022

<20\*c22b10>  
<20\*c16b03>  
<20\*c16b12>  
<20\*c16b05>  
<20\*c28b01>  
<20\*c28b05>  
<20\*c28b16>  
<20\*c28b10>  
<20\*c28b11>  
<20\*c24b14>  
<20\*c24b03>  
<20\*c24b07>  
<20\*c24b09>  
<20\*c24b08>

</home/dc82a> was used as the home directory.  
</home/dc82a/DEM21/develop not in repo/2021-09-20 tests> was used as the working directory.  
Started at Thu Jan 20 09:52:30 2022  
Terminated at Thu Jan 20 09:53:15 2022  
Results reported at Thu Jan 20 09:53:15 2022

Your job looked like:

```
-----  
# LSBATCH: User input  
#!/bin/bash  
# rbox_m300.sh 6/20/21 D.C.  
# Run boxpc.py in parallel with charm4py using mpirun  
module load openmpi/4.0.1  
export OMPI_MCA_opal_warn_on_missing_libcuda=0  
export OMPI_MCA_btl_openib_allow_ib=1  
ulimit -s 10240
```

```
#BSUB -q large
#BSUB -n 300
#BSUB -W 0:10
#BSUB -R rusage[mem=1000]
#BSUB -R span[ptile=20]
export pproc=c4p
mpirun -np 300 python boxpc.py boxtest16-22
```

-----  
Exited with exit code 1.

Resource usage summary:

CPU time :	471.00 sec.
Max Memory :	2764 MB
Average Memory :	1907.40 MB
Total Requested Memory :	300000.00 MB
Delta Memory :	297236.00 MB
Max Swap :	-
Max Processes :	24
Max Threads :	89
Run time :	44 sec.
Turnaround time :	69815 sec.

The output (if any) follows:

```
openmpi 4.0.1 is located under /share/pkg/openmpi/4.0.1
Charm++> Running on MPI version: 3.1
Charm++> level of thread support used: MPI_THREAD_SINGLE (desired: MPI_THREAD_SINGLE)
Charm++> Running in non-SMP mode: 300 processes (PEs)
Converse/Charm++ Commit ID: v6.10.0-beta1-17-ga5b6b3259
Warning> Randomization of virtual memory (ASLR) is turned on in the kernel, thread
migration may not work! Run 'echo 0 > /proc/sys/kernel/randomize_va_space' as root to
disable it, or try running with '+isomalloc_sync'.
CharmLB> Load balancer assumes all CPUs are same.
Charm4py> Running Charm4py version 1.0 on Python 3.7.10 (CPython). Using 'cython'
interface to access Charm++
Charm++> Running on 15 hosts (2 sockets x 10 cores x 1 PUs = 20-way SMP)
Charm++> cpu topology info is gathered in 0.044 seconds.
```

```
This is: boxpc.py 9/14/21 D.C. c4p=True using: dem_c4p.py 12/13/21 D.C.
- Read 1 config(s) from box_defaults.yaml << boxtest16-22.yaml
```

SIM 1/1:

```
Using elastic 'silicone' grainlets with R=0.500mm
1,000,000 oo=0.6 'tetra' grains in L=162.98mm box (phig=0.4), vrms=30.0m/s
No gravity, 'hertz' normal force law, no friction
- Writing grain ICs x,v to /tmp/tmpx_90lzbh/temp.grains
- READYING SIM with 1,000,000 grains and 6 walls
- FORCE LAWS: normal=hertz, nostick=False
- transverse=zero
- rolling=zero
- twisting=zero
- noncon=zero
```

```
- history-dependent contacts: True (set by user)
- TIME STEP: dt=2.000e-06s (set by user)
- at least 44.0 sim steps per pair contact time
- INTEGRATOR: gpc4 (using zero ICs for a,b)
- BOXES AND BOXLETS: vskin=1.0 ngbmax=250.0 btrig=-1.0 boxespad=1.5
- rrmx=0.500mm rrgmax=0.745mm
- padded grain bounding box [ -0.3 163.28 -0.3 163.28 -0.3 163.28] mm
- Using 16x16x16=4096 boxes (5.14)x(5.14)x(5.14) times min size
- average grains/box = 244.14
- Using 9x9x9=729 boxlets/box (1.05)x(1.05)x(1.05) times min size
- average grains/boxlet = 0.90
```

```
----- Processor 13 Exiting: Called CmiAbort -----
Reason: Converse zero handler executed-- was a message corrupted?
```

```
----- Python Stack Traceback PE 9 -----
----- Python Stack Traceback PE 10 -----
----- Python Stack Traceback PE 11 -----
----- Python Stack Traceback PE 12 -----
```

[13] Stack Traceback:

```
[13:0] _Z14CmiAbortHelperPKcS0_S0_ii+0x60 [0x7fb19160caa0]
[13:1] +0x24bbd1 [0x7fb19160cbd1]
[13:2] +0x218732 [0x7fb1915d9732]
[13:3] CsdScheduleForever+0xd7 [0x7fb1915da2b7]
[13:4] CsdScheduler+0x35 [0x7fb1915da4c5]
[13:5] ConverseInit+0x50a [0x7fb19160edea]
[13:6] StartCharmExt+0x19c [0x7fb1914e9aac]
[13:7] +0x43eb7 [0x7fb191957eb7]
[13:8] _PyObject_FastCallKeywords+0x48b [0x5645423c2a5b]
[13:9] +0x18fb59 [0x5645423c3b59]
[13:10] _PyEval_EvalFrameDefault+0x4c0a [0x5645423ee74a]
[13:11] _PyEval_EvalCodeWithName+0x242 [0x564542331af2]
[13:12] _PyFunction_FastCallKeywords+0x320 [0x564542360030]
[13:13] +0x18f9c8 [0x5645423c39c8]
[13:14] _PyEval_EvalFrameDefault+0x1699 [0x5645423eb1d9]
[13:15] _PyEval_EvalCodeWithName+0x242 [0x564542331af2]
[13:16] PyEval_EvalCodeEx+0x39 [0x564542332d09]
[13:17] PyEval_EvalCode+0x1b [0x56454240d8ab]
[13:18] +0x23df53 [0x564542471f53]
[13:19] PyRun_FileExFlags+0x97 [0x56454247bfd7]
[13:20] PyRun_SimpleFileExFlags+0x19c [0x56454247c1ac]
[13:21] +0x248709 [0x56454247c709]
[13:22] _Py_UnixMain+0x3c [0x56454247c85c]
[13:23] __libc_start_main+0x100 [0x7fb1edc94d20]
[13:24] +0x1c5901 [0x5645423f9901]
```

File "charm4py/charmlib/charmlib\_cython.pyx", line 888, in charm4py.charmlib.charmlib\_cython.recvArrayBcast

File "/home/dc82a/.conda/envs/d21m/lib/python3.7/site-packages/charm4py/charm.py", line 309, in recvArrayBcast

header, args = self.unpackMsg(msg, dcopy\_start, None)

File "charm4py/charmlib/charmlib\_cython.pyx", line 739, in charm4py.charmlib.charmlib\_cython.CharmLib.unpackMsg

File "charm4py/charmlib/charmlib\_cython.pyx", line 888, in charm4py.charmlib.charmlib\_cython.recvArrayBcast

File "/home/dc82a/.conda/envs/d21m/lib/python3.7/site-packages/charm4py/charm.py", line 309, in recvArrayBcast

```
header, args = self.unpackMsg(msg, dcopy_start, None)
File "charm4py/charmlib/charmlib_cython.pyx", line 739, in
charm4py.charmlib.charmlib_cython.CharmLib.unpackMsg
----- Processor 9 Exiting: Called CmiAbort -----
Reason: UnpicklingError: invalid load key, '\x00'.
File "charm4py/charmlib/charmlib_cython.pyx", line 888, in
charm4py.charmlib.charmlib_cython.recvArrayBcast
File "/home/dc82a/.conda/envs/d21m/lib/python3.7/site-packages/charm4py/charm.py", line
309, in recvArrayBcast
header, args = self.unpackMsg(msg, dcopy_start, None)
File "charm4py/charmlib/charmlib_cython.pyx", line 739, in
charm4py.charmlib.charmlib_cython.CharmLib.unpackMsg
----- Processor 10 Exiting: Called CmiAbort -----
Reason: UnpicklingError: invalid load key, '\x00'.
----- Processor 12 Exiting: Called CmiAbort -----
Reason: UnpicklingError: invalid load key, '\x00'.
-----
MPI_ABORT was invoked on rank 13 in communicator MPI COMMUNICATOR 3 DUP FROM 0
with errorcode 1.
```

NOTE: invoking MPI\_ABORT causes Open MPI to kill all MPI processes.  
You may or may not see output from other processes, depending on  
exactly when Open MPI kills them.

```
-----
File "charm4py/charmlib/charmlib_cython.pyx", line 888, in
charm4py.charmlib.charmlib_cython.recvArrayBcast
File "/home/dc82a/.conda/envs/d21m/lib/python3.7/site-packages/charm4py/charm.py", line
309, in recvArrayBcast
header, args = self.unpackMsg(msg, dcopy_start, None)
File "charm4py/charmlib/charmlib_cython.pyx", line 739, in
charm4py.charmlib.charmlib_cython.CharmLib.unpackMsg
----- Processor 11 Exiting: Called CmiAbort -----
Reason: UnpicklingError: invalid load key, '\x00'.
[9] Stack Traceback:
[9:0] _Z14CmiAbortHelperPKcS0_S0_ii+0x60 [0x7f289b32eaa0]
[9:1] +0x24bbd1 [0x7f289b32ebd1]
[9:2] +0x2d31e [0x7f289b66331e]
[9:3] _PyObject_FastCallKeywords+0x48b [0x56069282da5b]
[9:4] +0x18fb59 [0x56069282eb59]
[9:5] _PyEval_EvalFrameDefault+0x4c0a [0x56069285974a]
[9:6] _PyFunction_FastCallKeywords+0x184 [0x5606927cae94]
[9:7] +0x18f9c8 [0x56069282e9c8]
[9:8] _PyEval_EvalFrameDefault+0xa04 [0x560692855544]
[9:9] +0x12750 [0x7f289b648750]
[9:10] +0x13ecc [0x7f289b649ecc]
[9:11] +0x1502f [0x7f289b64b02f]
[9:12] +0x34cbd [0x7f289b66acbd]
[9:13]
_ZN18CkArrayBroadcaster7deliverEP14CkArrayMessageRSt6vectorIP12CkMigratableSaIS4_EEib+0x1b5
[0x7f289b24b0b5]
[9:14] _ZN7CkArray13recvBroadcastEP9CkMessage+0xc2 [0x7f289b24b882]
[9:15] CkDeliverMessageFree+0x21 [0x7f289b204641]
[9:16] _Z15_processHandlerPvP11CkCoreState+0x109f [0x7f289b20d31f]
[9:17] CsdScheduleForever+0x77 [0x7f289b2fc257]
[9:18] CsdScheduler+0x35 [0x7f289b2fc4c5]
```

```
[9:19] ConverseInit+0x50a [0x7f289b330dea]
[9:20] StartCharmExt+0x19c [0x7f289b20baac]
[9:21] +0x43eb7 [0x7f289b679eb7]
[9:22] _PyObject_FastCallKeywords+0x48b [0x56069282da5b]
[9:23] +0x18fb59 [0x56069282eb59]
[9:24] _PyEval_EvalFrameDefault+0x4c0a [0x56069285974a]
[9:25] _PyEval_EvalCodeWithName+0x242 [0x56069279caf2]
[9:26] _PyFunction_FastCallKeywords+0x320 [0x5606927cb030]
[9:27] +0x18f9c8 [0x56069282e9c8]
[9:28] _PyEval_EvalFrameDefault+0x1699 [0x5606928561d9]
[9:29] _PyEval_EvalCodeWithName+0x242 [0x56069279caf2]
[9:30] PyEval_EvalCodeEx+0x39 [0x56069279dd09]
[9:31] PyEval_EvalCode+0x1b [0x5606928788ab]
[9:32] +0x23df53 [0x5606928dcf53]
[9:33] PyRun_FileExFlags+0x97 [0x5606928e6fd7]
[9:34] PyRun_SimpleFileExFlags+0x19c [0x5606928e71ac]
[9:35] +0x248709 [0x5606928e7709]
[9:36] _Py_UnixMain+0x3c [0x5606928e785c]
[9:37] __libc_start_main+0x100 [0x7f28f79b6d20]
[9:38] +0x1c5901 [0x560692864901]
[10] Stack Traceback:
[10:0] _Z14CmiAbortHelperPKcS0_S0_ii+0x60 [0x7fb800d0daa0]
[10:1] +0x24bbd1 [0x7fb800d0dbd1]
[10:2] +0x2d31e [0x7fb80104231e]
[10:3] _PyObject_FastCallKeywords+0x48b [0x5603f0341a5b]
[10:4] +0x18fb59 [0x5603f0342b59]
[10:5] _PyEval_EvalFrameDefault+0x4c0a [0x5603f036d74a]
[10:6] _PyFunction_FastCallKeywords+0x184 [0x5603f02dee94]
[10:7] +0x18f9c8 [0x5603f03429c8]
[10:8] _PyEval_EvalFrameDefault+0xa04 [0x5603f0369544]
[10:9] +0x12750 [0x7fb801027750]
[10:10] +0x13ecc [0x7fb801028ecc]
[10:11] +0x1502f [0x7fb80102a02f]
[10:12] +0x34cbd [0x7fb801049cbd]
[10:13]
_ZN18CkArrayBroadcaster7deliverEP14CkArrayMessageRSt6vectorIP12CkMigratableSaIS4_EEib+0x1b5
[0x7fb800c2a0b5]
[10:14] _ZN7CkArray13recvBroadcastEP9CkMessage+0xc2 [0x7fb800c2a882]
[10:15] CkDeliverMessageFree+0x21 [0x7fb800be3641]
[10:16] _Z15_processHandlerPvP11CkCoreState+0x109f [0x7fb800bec31f]
[10:17] CsdScheduleForever+0x77 [0x7fb800cdb257]
[10:18] CsdScheduler+0x35 [0x7fb800cdb4c5]
[10:19] ConverseInit+0x50a [0x7fb800d0fdea]
[10:20] StartCharmExt+0x19c [0x7fb800beaaac]
[10:21] +0x43eb7 [0x7fb801058eb7]
[10:22] _PyObject_FastCallKeywords+0x48b [0x5603f0341a5b]
[10:23] +0x18fb59 [0x5603f0342b59]
[10:24] _PyEval_EvalFrameDefault+0x4c0a [0x5603f036d74a]
[10:25] _PyEval_EvalCodeWithName+0x242 [0x5603f02b0af2]
[10:26] _PyFunction_FastCallKeywords+0x320 [0x5603f02df030]
[10:27] +0x18f9c8 [0x5603f03429c8]
[10:28] _PyEval_EvalFrameDefault+0x1699 [0x5603f036a1d9]
[10:29] _PyEval_EvalCodeWithName+0x242 [0x5603f02b0af2]
[10:30] PyEval_EvalCodeEx+0x39 [0x5603f02b1d09]
[10:31] PyEval_EvalCode+0x1b [0x5603f038c8ab]
```

```
[10:32] +0x23df53 [0x5603f03f0f53]
[10:33] PyRun_FileExFlags+0x97 [0x5603f03fafd7]
[10:34] PyRun_SimpleFileExFlags+0x19c [0x5603f03fb1ac]
[10:35] +0x248709 [0x5603f03fb709]
[10:36] _Py_UnixMain+0x3c [0x5603f03fb85c]
[10:37] __libc_start_main+0x100 [0x7fb85d395d20]
[10:38] +0x1c5901 [0x5603f0378901]
```

[11] Stack Traceback:

```
[11:0] _Z14CmiAbortHelperPKcS0_S0_ii+0x60 [0x7ff918b20aa0]
[11:1] +0x24bbd1 [0x7ff918b20bd1]
[11:2] +0x2d31e [0x7ff918e5531e]
[11:3] _PyObject_FastCallKeywords+0x48b [0x563112f4ca5b]
[11:4] +0x18fb59 [0x563112f4db59]
[11:5] _PyEval_EvalFrameDefault+0x4c0a [0x563112f7874a]
[11:6] _PyFunction_FastCallKeywords+0x184 [0x563112ee9e94]
[11:7] +0x18f9c8 [0x563112f4d9c8]
[11:8] _PyEval_EvalFrameDefault+0xa04 [0x563112f74544]
[11:9] +0x12750 [0x7ff918e3a750]
[11:10] +0x13ecc [0x7ff918e3becc]
[11:11] +0x1502f [0x7ff918e3d02f]
[11:12] +0x34cbd [0x7ff918e5ccbd]
[11:13]
```

\_ZN18CkArrayBroadcaster7deliverEP14CkArrayMessageRSt6vectorIP12CkMigratableSaIS4\_EEib+0x1b5  
[0x7ff918a3d0b5]

```
[11:14] _ZN7CkArray13recvBroadcastEP9CkMessage+0xc2 [0x7ff918a3d882]
[11:15] CkDeliverMessageFree+0x21 [0x7ff9189f6641]
[11:16] _Z15_processHandlerPvP11CkCoreState+0x109f [0x7ff9189ff31f]
[11:17] CsdScheduleForever+0x77 [0x7ff918aee257]
[11:18] CsdScheduler+0x35 [0x7ff918aee4c5]
[11:19] ConverseInit+0x50a [0x7ff918b22dea]
[11:20] StartCharmExt+0x19c [0x7ff9189fdaac]
[11:21] +0x43eb7 [0x7ff918e6beb7]
[11:22] _PyObject_FastCallKeywords+0x48b [0x563112f4ca5b]
[11:23] +0x18fb59 [0x563112f4db59]
[11:24] _PyEval_EvalFrameDefault+0x4c0a [0x563112f7874a]
[11:25] _PyEval_EvalCodeWithName+0x242 [0x563112ebbf2]
[11:26] _PyFunction_FastCallKeywords+0x320 [0x563112eea030]
[11:27] +0x18f9c8 [0x563112f4d9c8]
[11:28] _PyEval_EvalFrameDefault+0x1699 [0x563112f751d9]
[11:29] _PyEval_EvalCodeWithName+0x242 [0x563112ebbf2]
[11:30] PyEval_EvalCodeEx+0x39 [0x563112ebcd09]
[11:31] PyEval_EvalCode+0x1b [0x563112f978ab]
[11:32] +0x23df53 [0x563112ffbf53]
[11:33] PyRun_FileExFlags+0x97 [0x563113005fd7]
[11:34] PyRun_SimpleFileExFlags+0x19c [0x5631130061ac]
[11:35] +0x248709 [0x563113006709]
[11:36] _Py_UnixMain+0x3c [0x56311300685c]
[11:37] __libc_start_main+0x100 [0x7ff9751a8d20]
[11:38] +0x1c5901 [0x563112f83901]
```

[12] Stack Traceback:

```
[12:0] _Z14CmiAbortHelperPKcS0_S0_ii+0x60 [0x7f350f281aa0]
[12:1] +0x24bbd1 [0x7f350f281bd1]
[12:2] +0x2d31e [0x7f350f5b631e]
[12:3] _PyObject_FastCallKeywords+0x48b [0x5644ae266a5b]
[12:4] +0x18fb59 [0x5644ae267b59]
```

```
[12:5] _PyEval_EvalFrameDefault+0x4c0a [0x5644ae29274a]
[12:6] _PyFunction_FastCallKeywords+0x184 [0x5644ae203e94]
[12:7] +0x18f9c8 [0x5644ae2679c8]
[12:8] _PyEval_EvalFrameDefault+0xa04 [0x5644ae28e544]
[12:9] +0x12750 [0x7f350f59b750]
[12:10] +0x13ecc [0x7f350f59cecc]
[12:11] +0x1502f [0x7f350f59e02f]
[12:12] +0x34cbd [0x7f350f5bdcdb]
[12:13]
_ZN18CkArrayBroadcaster7deliverEP14CkArrayMessageRSt6vectorIP12CkMigratableSaIS4_EEib+0x1b5
[0x7f350f19e0b5]
[12:14] _ZN7CkArray13recvBroadcastEP9CkMessage+0xc2 [0x7f350f19e882]
[12:15] CkDeliverMessageFree+0x21 [0x7f350f157641]
[12:16] _Z15_processHandlerPvP11CkCoreState+0x109f [0x7f350f16031f]
[12:17] CsdScheduleForever+0x77 [0x7f350f24f257]
[12:18] CsdScheduler+0x35 [0x7f350f24f4c5]
[12:19] ConverseInit+0x50a [0x7f350f283dea]
[12:20] StartCharmExt+0x19c [0x7f350f15eaac]
[12:21] +0x43eb7 [0x7f350f5cceb7]
[12:22] _PyObject_FastCallKeywords+0x48b [0x5644ae266a5b]
[12:23] +0x18fb59 [0x5644ae267b59]
[12:24] _PyEval_EvalFrameDefault+0x4c0a [0x5644ae29274a]
[12:25] _PyEval_EvalCodeWithName+0x242 [0x5644ae1d5af2]
[12:26] _PyFunction_FastCallKeywords+0x320 [0x5644ae204030]
[12:27] +0x18f9c8 [0x5644ae2679c8]
[12:28] _PyEval_EvalFrameDefault+0x1699 [0x5644ae28f1d9]
[12:29] _PyEval_EvalCodeWithName+0x242 [0x5644ae1d5af2]
[12:30] PyEval_EvalCodeEx+0x39 [0x5644ae1d6d09]
[12:31] PyEval_EvalCode+0x1b [0x5644ae2b18ab]
[12:32] +0x23df53 [0x5644ae315f53]
[12:33] PyRun_FileExFlags+0x97 [0x5644ae31ffd7]
[12:34] PyRun_SimpleFileExFlags+0x19c [0x5644ae3201ac]
[12:35] +0x248709 [0x5644ae320709]
[12:36] _Py_UnixMain+0x3c [0x5644ae32085c]
[12:37] __libc_start_main+0x100 [0x7f356b909d20]
[12:38] +0x1c5901 [0x5644ae29d901]
[c22b08:30265] PMIX ERROR: UNREACHABLE in file server/pmix_server.c at line 2079
[c22b08:30265] PMIX ERROR: UNREACHABLE in file server/pmix_server.c at line 2079
[c22b08:30265] PMIX ERROR: UNREACHABLE in file server/pmix_server.c at line 2079
[c22b08:30265] PMIX ERROR: UNREACHABLE in file server/pmix_server.c at line 2079
[c22b08:30265] 4 more processes have sent help message help-mpi-api.txt / mpi-abort
[c22b08:30265] Set MCA parameter "orte_base_help_aggregate" to 0 to see all help / error
messages
```