

```
In [1]: import os
```

```
In [2]: cd /var/cortex
```

```
/var/cortex
```

```
In [3]: os.getcwd()
```

```
Out[3]: '/var/cortex'
```

```
In [4]: ls
```

```
cortex-monitor/  cortex-motr/  cortex-prereqs.sh*  cortex-s3server/  hare/  sspl/
```

```
In [5]: cd cortex-motr
```

```
/var/cortex/cortex-motr
```

```
In [6]: ls
```

```
aclocal.m4          dix/                m0lnetping.o       Module.symvers
addb2/              doc/                m0nettestd.ko      motr/
AUTHORS             dtm/                m0nettestd.mod.c  motr-mock.cfg
autogen.sh*        extra-libs/        m0nettestd.mod.o  motr.pc
autom4te.cache/    fd/                m0nettestd.o      motr.pc.in
balloc/            fdmi/              m0rpcping.ko       motr_st_kmod.ko
be/                fid/                m0rpcping.mod.c   motr_st_kmod.mod.c
built-in.o         file/              m0rpcping.mod.o   motr_st_kmod.mod.o
capa/              fis/                m0rpcping.o       motr_st_kmod.o
cas/               fol/                m0t1fs/            mw/
ChangeLog          fop/                m0trace.1076*     net/
cm/                format/            m0trace.1156*     NEWS
cob/               graph/             m0trace.13515*    patches/
CODE_OF_CONDUCT.md ha/                m0trace.13563*    pool/
CODEOWNERS         helpers/           m0trace.28262*    README.rst
compile@           install-sh@        m0trace.28310*    reqh/
conf/              ioservice/         m0tr.ko           rm/
config/            iscservice/        m0tr.mod.c        rpc/
config.guess@     Kbuild             m0tr.mod.o        scripts/
config.h           Kbuild.in          m0tr.o            SECURITY.md
config.h.in        layout/            m0ut.ko           sm/
config.log         lib/                m0ut.mod.c        sns/
config.status*    libtool*           m0ut.mod.o        spiel/
config.sub@       LICENCE            m0ut.o            sss/
configure*        ltmain.sh@         m4/                st/
configure.ac       lustre_config.h@   Makefile           stamp-h1
console/          m0ctl.ko           Makefile.am        stats/
CONTRIBUTING.md  m0ctl.mod.c        Makefile.in        stob/
COPYING           m0ctl.mod.o        mdservice/         SUPPORT.md
cortex-motr.spec  m0ctl.o            mdstore/           udb/
cortex-motr.spec.in m0lnetping.ko     missing@           ut/
depcomp@          m0lnetping.mod.c  module/            utils/
desim/            m0lnetping.mod.o  modules.order      xcode/
```

```
In [9]: !./scripts/m0 run-ut -h
```

```
----- run_ut -h -----  
Usage: ub options...
```

where valid options are

```
-h          : display this help and exit  
-l          : List available benchmarks and exit  
-r number: Number of rounds a benchmark has to run  
-t string: Benchmark to run  
-o string: Optional parameters (ignored by most benchmarks)
```

```
In [10]: !./scripts/m0 run-ut -l
```

```
----- run_ut -l -----  
Available benchmarks:  
ad-ub  
adieu-ub  
fol-ub  
fom-ub  
list-ub  
memory-ub  
thread-ub  
time-ub  
timer-ub  
tlist-ub  
trace-ub  
varr-ub
```

```
In [11]: !./scripts/m0 run-ut -t ad-ub
```

```
----- run_ut -t ad-ub -----  
-- round 1ad-ub[...]  
      bench: [  iter]   min   max   avg   std   sec/op   op/sec  
block_size time_in_sec bytes   KiB  BW_KiB   IOPS  
set: ad-ub  
      write-prime: [    1]  0.01  0.01  0.01  0.00% 9.233e-03/1.083e+  
02    00    0.01      0000    00    00    00  
      write: [   100]  0.33  0.33  0.33  0.00% 3.339e-03/2.995e+  
02    00    0.33      0000    00    00    00  
      read: [   100]  0.05  0.05  0.05  0.00% 4.612e-04/2.168e+  
03    00    0.05      0000    00    00    00
```

```
In [12]: !./scripts/m0 run-kut
```

----- run_kut -----

Running kernel UT (this may take a while) ...

```
Nov  4 02:23:03 ssc-vm-1061 kernel: Motr m0lnet deregistered
Nov  4 02:23:41 ssc-vm-1061 kernel: Motr trace immediate mask: 0x0
Nov  4 02:23:41 ssc-vm-1061 kernel: motr: trace level: fatal+
Nov  4 02:23:41 ssc-vm-1061 kernel: motr: trace print context: short
Nov  4 02:23:41 ssc-vm-1061 kernel: motr: trace header address: 0xfffffafce821
70000
Nov  4 02:23:41 ssc-vm-1061 kernel: motr: trace buffer address: 0xfffffafce821
71000
Nov  4 02:23:41 ssc-vm-1061 kernel: Motr m0lnet registered with minor 57
Nov  4 02:23:41 ssc-vm-1061 kernel: motr: max CPUs for parity calcs: 4
Nov  4 02:23:41 ssc-vm-1061 kernel: Motr Kernel Unit Test
Nov  4 02:23:41 ssc-vm-1061 kernel: klibm0-ut
Nov  4 02:23:41 ssc-vm-1061 kernel: . bitmap
0.00 sec   80 B
Nov  4 02:23:41 ssc-vm-1061 kernel: . bitmap-onwire
0.00 sec   48 B
Nov  4 02:23:41 ssc-vm-1061 kernel: . memory
0.00 sec  136 B
Nov  4 02:23:41 ssc-vm-1061 kernel: . bob
0.00 sec    0 B
Nov  4 02:23:41 ssc-vm-1061 kernel: . buf
0.00 sec  448 B
Nov  4 02:23:41 ssc-vm-1061 kernel: . chan
0.79 sec 160 KiB
Nov  4 02:23:41 ssc-vm-1061 kernel: . cookie
0.04 sec   16 B
Nov  4 02:23:41 ssc-vm-1061 kernel: . finject
0.00 sec    0 B
Nov  4 02:23:41 ssc-vm-1061 kernel: . hash
0.00 sec    1 KiB
Nov  4 02:23:41 ssc-vm-1061 kernel: . list
0.00 sec    0 B
Nov  4 02:23:42 ssc-vm-1061 kernel: . locality [Nikita]
0.05 sec    3 MiB
Nov  4 02:23:42 ssc-vm-1061 kernel: . loc-chores [Nikita]
0.00 sec 163 KiB
Nov  4 02:23:42 ssc-vm-1061 kernel: . lockers
0.00 sec    0 B
Nov  4 02:23:42 ssc-vm-1061 kernel: . tlist
0.00 sec    0 B
Nov  4 02:23:43 ssc-vm-1061 kernel: . mutex
1.15 sec    3 MiB
Nov  4 02:23:43 ssc-vm-1061 kernel: . queue
0.00 sec    0 B
Nov  4 02:23:43 ssc-vm-1061 kernel: . refs
0.00 sec   16 B
Nov  4 02:23:43 ssc-vm-1061 kernel: . rwlock
0.19 sec    1 MiB
Nov  4 02:23:43 ssc-vm-1061 kernel: . thread
0.05 sec   49 KiB
Nov  4 02:23:44 ssc-vm-1061 kernel: . time
0.78 sec   45 KiB
Nov  4 02:23:44 ssc-vm-1061 kernel: . trace
0.24 sec    0 B
Nov  4 02:23:44 ssc-vm-1061 kernel: . uuid
```

```
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: .  varr
0.75 sec    5 MiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  vec
0.01 sec    2 MiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  zerovec
0.00 sec   384 B
Nov  4 02:23:45 ssc-vm-1061 kernel: .  fold [Nikita]
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: .  [ time: 4.15 sec, mem: 16 MiB, leaked:
8 MiB ]
Nov  4 02:23:45 ssc-vm-1061 kernel: addb2-base
Nov  4 02:23:45 ssc-vm-1061 kernel: .  init-fini
0.00 sec   16 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  push-pop
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  push0-pop
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  push5-pop
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  push^N-pop^N
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  add
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  add-var
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  full
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  stop-idle
0.00 sec   65 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  sensor-depth
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  [ time: 0.01 sec, mem: 241 KiB, leake
d: 0 B ]
Nov  4 02:23:45 ssc-vm-1061 kernel: addb2-consumer
Nov  4 02:23:45 ssc-vm-1061 kernel: .  empty
0.00 sec   16 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  empty-push-pop
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  data
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  data-label
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  sensor
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  sensor-N
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  id-philter
0.00 sec   20 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: .  global-philter
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: .  [ time: 0.00 sec, mem: 136 KiB, leake
d: 0 B ]
Nov  4 02:23:45 ssc-vm-1061 kernel: addb2-histogram
Nov  4 02:23:45 ssc-vm-1061 kernel: .  init-fini
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: .  history-bucket
```

```
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 0 B, leaked: 0
B ]
Nov  4 02:23:45 ssc-vm-1061 kernel: addb2-sys
Nov  4 02:23:45 ssc-vm-1061 kernel: . init-fini [Nikita]
0.00 sec   512 B
Nov  4 02:23:45 ssc-vm-1061 kernel: . mach-1 [Nikita]
0.00 sec   16 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . mach-toomany [Nikita]
0.00 sec   16 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . mach-cache [Nikita]
0.00 sec   16 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . mach-cache-N [Nikita]
0.00 sec    2 MiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . noqueue-add [Nikita]
0.00 sec   82 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . queue-add [Nikita]
0.00 sec   82 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . sm-add [Nikita]
0.00 sec   24 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 2 MiB, leaked:
0 B ]
Nov  4 02:23:45 ssc-vm-1061 kernel: di-ut
Nov  4 02:23:45 ssc-vm-1061 kernel: . di-init
0.00 sec   66 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . di-cksum-test
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: . di-ref-tag-test
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: . di-test
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: . di-none-test
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: . di-fini
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 66 KiB, leaked:
0 B ]
Nov  4 02:23:45 ssc-vm-1061 kernel: file-io-ut
Nov  4 02:23:45 ssc-vm-1061 kernel: . basic_data_structures_test
0.00 sec   49 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . helper_routines_test
0.00 sec    0 B
Nov  4 02:23:45 ssc-vm-1061 kernel: . parity_group_ops_test
0.00 sec    8 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . nw_xfer_ops_test
0.00 sec   36 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . target_ioreq_ops_test
0.00 sec   21 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . dgmode_readio_test
0.00 sec   54 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . fsync_test
0.00 sec   38 KiB
Nov  4 02:23:45 ssc-vm-1061 kernel: . [ time: 0.02 sec, mem: 1 MiB, leaked:
140 KiB ]
Nov  4 02:23:45 ssc-vm-1061 kernel: be-ut
Nov  4 02:23:45 ssc-vm-1061 kernel: . list
0.00 sec   52 KiB
```

```
Nov 4 02:23:49 ssc-vm-1061 kernel: . btree-create_destroy
4.17 sec 3 MiB
Nov 4 02:23:53 ssc-vm-1061 kernel: . btree-create_truncate
3.85 sec 2 MiB
Nov 4 02:23:53 ssc-vm-1061 kernel: . seg_dict
0.00 sec 1 KiB
Nov 4 02:23:53 ssc-vm-1061 kernel: . emap
0.00 sec 11 KiB
Nov 4 02:23:53 ssc-vm-1061 kernel: . [ time: 8.04 sec, mem: 5 MiB, leaked:
10 KiB ]
Nov 4 02:23:53 ssc-vm-1061 kernel: buffer_pool_ut
Nov 4 02:23:53 ssc-vm-1061 kernel: . buffer_pool_init
0.00 sec 25 KiB
Nov 4 02:23:53 ssc-vm-1061 kernel: . buffer_pool_get_put
0.00 sec 0 B
Nov 4 02:23:53 ssc-vm-1061 kernel: . buffer_pool_get_put_colour
0.00 sec 0 B
Nov 4 02:23:53 ssc-vm-1061 kernel: . buffer_pool_grow
0.00 sec 2 KiB
Nov 4 02:23:53 ssc-vm-1061 kernel: . buffer_pool_prune
0.00 sec 0 B
Nov 4 02:23:53 ssc-vm-1061 kernel: . buffer_pool_get_put_multiple
0.00 sec 10 KiB
Nov 4 02:23:53 ssc-vm-1061 kernel: . buffer_pool_fini
0.00 sec 0 B
Nov 4 02:23:53 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 38 KiB, leaked:
8 KiB ]
Nov 4 02:23:53 ssc-vm-1061 kernel: bulk-client-ut
Nov 4 02:24:09 ssc-vm-1061 kernel: . bulkclient_test
16.00 sec 27 KiB
Nov 4 02:24:09 ssc-vm-1061 kernel: . [ time: 16.00 sec, mem: 27 KiB, leake
d: 8 KiB ]
Nov 4 02:24:09 ssc-vm-1061 kernel: net-bulk-if
Nov 4 02:24:09 ssc-vm-1061 kernel: . net_bulk_if
0.02 sec 50 KiB
Nov 4 02:24:09 ssc-vm-1061 kernel: . [ time: 0.02 sec, mem: 50 KiB, leaked:
0 B ]
Nov 4 02:24:09 ssc-vm-1061 kernel: net-bulk-mem
Nov 4 02:24:09 ssc-vm-1061 kernel: . net_bulk_mem_buf_copy_test
0.00 sec 1 KiB
Nov 4 02:24:09 ssc-vm-1061 kernel: . net_bulk_mem_tm_test
0.00 sec 384 B
Nov 4 02:24:09 ssc-vm-1061 kernel: . net_bulk_mem_ep
0.00 sec 768 B
Nov 4 02:24:09 ssc-vm-1061 kernel: . net_bulk_mem_failure_tests
0.00 sec 4 KiB
Nov 4 02:24:16 ssc-vm-1061 kernel: . net_bulk_mem_ping_tests
7.00 sec 214 KiB
Nov 4 02:24:16 ssc-vm-1061 kernel: . [ time: 7.00 sec, mem: 220 KiB, leake
d: 8 KiB ]
Nov 4 02:24:16 ssc-vm-1061 kernel: net-lnet
Nov 4 02:24:16 ssc-vm-1061 kernel: . net_lnet_buf_shape (K)
0.00 sec 272 B
Nov 4 02:24:16 ssc-vm-1061 kernel: . net_lnet_buf_reg (K)
0.00 sec 1 MiB
Nov 4 02:24:16 ssc-vm-1061 kernel: . net_lnet_ep_addr (K)
0.00 sec 32 B
```

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Nov 4 02:24:16 ssc-vm-1061 kernel: . net_lnet_enc_dec (K)
0.00 sec 0 B
Nov 4 02:24:19 ssc-vm-1061 kernel: . net_lnet_msg (K)
3.00 sec 13 KiB
Nov 4 02:24:21 ssc-vm-1061 kernel: . net_lnet_bulk (K)
2.00 sec 9 KiB
Nov 4 02:24:21 ssc-vm-1061 kernel: . net_lnet_device
0.01 sec 11 KiB
Nov 4 02:24:21 ssc-vm-1061 kernel: . net_lnet_tm_initfini
0.00 sec 1 KiB
Nov 4 02:24:24 ssc-vm-1061 kernel: . net_lnet_tm_startstop
3.00 sec 13 KiB
Nov 4 02:24:26 ssc-vm-1061 kernel: . net_lnet_msg
2.00 sec 10 KiB
Nov 4 02:24:28 ssc-vm-1061 kernel: . net_lnet_buf_desc
2.00 sec 12 KiB
Nov 4 02:24:40 ssc-vm-1061 kernel: . net_lnet_bulk
12.00 sec 9 KiB
Nov 4 02:24:41 ssc-vm-1061 kernel: . net_lnet_sync
1.00 sec 8 KiB
Nov 4 02:24:47 ssc-vm-1061 kernel: . net_lnet_timeout
6.00 sec 8 KiB
Nov 4 02:24:47 ssc-vm-1061 kernel: . [ time: 31.04 sec, mem: 1 MiB, leaked:
23 KiB ]
Nov 4 02:24:47 ssc-vm-1061 kernel: net-test
Nov 4 02:24:47 ssc-vm-1061 kernel: . ringbuf
0.00 sec 32 KiB
Nov 4 02:24:47 ssc-vm-1061 kernel: . serialize
0.00 sec 0 B
Nov 4 02:24:47 ssc-vm-1061 kernel: . str
0.00 sec 208 B
Nov 4 02:24:47 ssc-vm-1061 kernel: . slist
0.00 sec 56 KiB
Nov 4 02:24:47 ssc-vm-1061 kernel: . stats
0.01 sec 0 B
Nov 4 02:24:47 ssc-vm-1061 kernel: . timestamp
0.00 sec 0 B
Nov 4 02:24:47 ssc-vm-1061 kernel: . service
0.00 sec 0 B
Nov 4 02:24:48 ssc-vm-1061 kernel: . network-buf-desc
1.00 sec 6 KiB
Nov 4 02:24:50 ssc-vm-1061 kernel: . network-ping
2.00 sec 119 KiB
Nov 4 02:24:52 ssc-vm-1061 kernel: . network-bulk
2.00 sec 56 KiB
Nov 4 02:24:56 ssc-vm-1061 kernel: . cmd-single
4.00 sec 9 KiB
Nov 4 02:25:00 ssc-vm-1061 kernel: . cmd-multiple
4.03 sec 508 KiB
Nov 4 02:25:01 ssc-vm-1061 kernel: . cmd-multiple2
1.06 sec 993 KiB
Nov 4 02:25:04 ssc-vm-1061 kernel: . client-server-stub
3.00 sec 28 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . client-server-bulk
11.04 sec 721 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . [ time: 28.19 sec, mem: 2 MiB, leaked:
818 KiB ]
```



```
Nov 4 02:25:15 ssc-vm-1061 kernel: net-prov-ut
Nov 4 02:25:15 ssc-vm-1061 kernel: . net_prov
0.04 sec 18 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . [ time: 0.04 sec, mem: 18 KiB, leaked:
12 KiB ]
Nov 4 02:25:15 ssc-vm-1061 kernel: rpc-connection-ut
Nov 4 02:25:15 ssc-vm-1061 kernel: . conn-init-fini
0.00 sec 32 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . conn-check
0.00 sec 18 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . conn-init-fail
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . conn-establish-fail
0.00 sec 33 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . conn-terminate-fail
0.00 sec 35 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . conn-establish-reply-fail
0.00 sec 34 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . conn-terminate_reply-fail
0.00 sec 44 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 199 KiB, leake
d: 8 KiB ]
Nov 4 02:25:15 ssc-vm-1061 kernel: dtm-nucleus-ut
Nov 4 02:25:15 ssc-vm-1061 kernel: . nu
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . hi
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . op
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . up
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . op-add
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . gap
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . late
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . miser
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . miser-delayed
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . done
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 0 B, leaked: 0
B ]
Nov 4 02:25:15 ssc-vm-1061 kernel: dtm-transmit-ut
Nov 4 02:25:15 ssc-vm-1061 kernel: . transmit
0.11 sec 72 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . redo
0.16 sec 162 KiB
Nov 4 02:25:15 ssc-vm-1061 kernel: . [ time: 0.28 sec, mem: 234 KiB, leake
d: 226 KiB ]
Nov 4 02:25:15 ssc-vm-1061 kernel: dtm-dtx-ut
Nov 4 02:25:15 ssc-vm-1061 kernel: . dtm-setup
0.00 sec 0 B
Nov 4 02:25:15 ssc-vm-1061 kernel: . dtx-setup
0.00 sec 4 KiB
```

```
Nov  4 02:25:15 ssc-vm-1061 kernel: . dtx-populate
0.00 sec    4 KiB
Nov  4 02:25:15 ssc-vm-1061 kernel: . dtx-pack
0.00 sec    5 KiB
Nov  4 02:25:16 ssc-vm-1061 kernel: . dtx-reply
0.00 sec    5 KiB
Nov  4 02:25:16 ssc-vm-1061 kernel: . dtx-fix
0.01 sec    5 KiB
Nov  4 02:25:16 ssc-vm-1061 kernel: . [ time: 0.03 sec, mem: 25 KiB, leaked:
5 KiB ]
Nov  4 02:25:16 ssc-vm-1061 kernel: failure_domains_tree-ut
Nov  4 02:25:16 ssc-vm-1061 kernel: . test_fd_tree
0.00 sec   59 KiB
Nov  4 02:25:16 ssc-vm-1061 kernel: . test_perm_cache
0.00 sec   12 KiB
Nov  4 02:25:16 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 71 KiB, leaked:
0 B ]
Nov  4 02:25:16 ssc-vm-1061 kernel: failure_domains-ut
Nov  4 02:25:16 ssc-vm-1061 kernel: . test_ft_mapping
0.37 sec  560 KiB
Nov  4 02:25:16 ssc-vm-1061 kernel: . test_pv2fd_conv
0.00 sec   59 KiB
Nov  4 02:25:16 ssc-vm-1061 kernel: . test_fd_mapping
0.56 sec    2 MiB
Nov  4 02:25:16 ssc-vm-1061 kernel: . [ time: 0.94 sec, mem: 2 MiB, leaked:
208 B ]
Nov  4 02:25:16 ssc-vm-1061 kernel: fom-timedwait-ut
Nov  4 02:25:16 ssc-vm-1061 kernel: . immediate-success
0.00 sec    2 KiB
Nov  4 02:25:16 ssc-vm-1061 kernel: . delayed-success
0.00 sec   35 KiB
Nov  4 02:25:16 ssc-vm-1061 kernel: . immediate-timeout
0.00 sec    6 KiB
Nov  4 02:25:17 ssc-vm-1061 kernel: . delayed-timeout
0.10 sec    3 MiB
Nov  4 02:25:17 ssc-vm-1061 kernel: . immediate-unreachable
0.00 sec    2 KiB
Nov  4 02:25:17 ssc-vm-1061 kernel: . delayed-unreachable
0.00 sec    6 KiB
Nov  4 02:25:17 ssc-vm-1061 kernel: . [ time: 0.10 sec, mem: 3 MiB, leaked:
3 MiB ]
Nov  4 02:25:17 ssc-vm-1061 kernel: rpc-formation-ut
Nov  4 02:25:17 ssc-vm-1061 kernel: . frm-init
0.00 sec    0 B
Nov  4 02:25:17 ssc-vm-1061 kernel: . frm-test1
0.20 sec    5 KiB
Nov  4 02:25:17 ssc-vm-1061 kernel: . frm-test2
0.00 sec    8 KiB
Nov  4 02:25:17 ssc-vm-1061 kernel: . frm-test3
0.00 sec    1 KiB
Nov  4 02:25:17 ssc-vm-1061 kernel: . frm-test5
0.00 sec   37 KiB
Nov  4 02:25:17 ssc-vm-1061 kernel: . frm-test6
0.00 sec    1 KiB
Nov  4 02:25:17 ssc-vm-1061 kernel: . frm-test7
0.00 sec    2 KiB
Nov  4 02:25:17 ssc-vm-1061 kernel: . frm-test8
```

```
0.00 sec 100 KiB
Nov 4 02:25:17 ssc-vm-1061 kernel: . frm-fini
0.00 sec 0 B
Nov 4 02:25:17 ssc-vm-1061 kernel: . [ time: 0.20 sec, mem: 155 KiB, leaked: 0 B ]
Nov 4 02:25:17 ssc-vm-1061 kernel: ha-ut
Nov 4 02:25:17 ssc-vm-1061 kernel: . cookie
0.00 sec 256 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . msg_queue
4.22 sec 128 MiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . lq
0.00 sec 64 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . lq-mark_delivered
0.00 sec 3 MiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . link-usecase
0.01 sec 535 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . link-multithreaded
0.39 sec 173 MiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . link-reconnect_simple
0.00 sec 898 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . link-reconnect_multiple
0.00 sec 506 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . entrypoint-usecase
0.00 sec 285 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . entrypoint-client
0.02 sec 615 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . ha-usecase
0.01 sec 882 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . [ time: 4.69 sec, mem: 308 MiB, leaked: 1 MiB ]
Nov 4 02:25:21 ssc-vm-1061 kernel: layout-ut [Trupti]
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-domain-init-fini
0.00 sec 0 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-domain-init-fini-failure
0.00 sec 0 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-type-register-unregister
0.00 sec 0 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-etype-register-unregister
0.00 sec 0 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-register-unregister
0.00 sec 0 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-register-unregister-failure
0.00 sec 0 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-build
0.00 sec 368 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-build-failure
0.00 sec 240 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-decode
0.00 sec 464 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-decode-failure
0.00 sec 1 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-encode
0.00 sec 464 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-encode-failure
0.00 sec 464 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-decode-encode
0.00 sec 560 B
```

```
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-encode-decode
0.00 sec 1 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-ref-get-put
0.00 sec 368 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-enum-ops
0.00 sec 368 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-max-recsize
0.00 sec 0 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-recsize
0.00 sec 368 B
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-pdclust-instance
0.00 sec 4 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . layout-pdclust-instance-failure
0.00 sec 3 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 13 KiB, leaked:
1 KiB ]
Nov 4 02:25:21 ssc-vm-1061 kernel: ms-fom-ut
Nov 4 02:25:21 ssc-vm-1061 kernel: . leader-follower-sl [Sergey]
0.00 sec 4 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . leader-follower-dl [Sergey]
0.00 sec 4 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 8 KiB, leaked:
0 B ]
Nov 4 02:25:21 ssc-vm-1061 kernel: rpc-packet-encdec-ut
Nov 4 02:25:21 ssc-vm-1061 kernel: . packet-encode-decode-test
0.00 sec 4 KiB
Nov 4 02:25:21 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 4 KiB, leaked:
0 B ]
Nov 4 02:25:21 ssc-vm-1061 kernel: parity_math-ut
Nov 4 02:25:31 ssc-vm-1061 kernel: . reed_solomon_recover_with_fail_vec
9.23 sec 610 KiB
Nov 4 02:25:31 ssc-vm-1061 kernel: . xor_recover_with_fail_vec
0.01 sec 0 B
Nov 4 02:25:31 ssc-vm-1061 kernel: . xor_recover_with_fail_index
0.01 sec 0 B
Nov 4 02:25:31 ssc-vm-1061 kernel: . buffer_xor
0.00 sec 0 B
Nov 4 02:25:31 ssc-vm-1061 kernel: . parity_math_diff_xor
0.00 sec 544 B
Nov 4 02:25:31 ssc-vm-1061 kernel: . parity_math_diff_rs
0.01 sec 101 KiB
Nov 4 02:25:31 ssc-vm-1061 kernel: . incr_recov_rs
0.49 sec 25 MiB
Nov 4 02:25:31 ssc-vm-1061 kernel: . [ time: 9.78 sec, mem: 25 MiB, leaked:
0 B ]
Nov 4 02:25:31 ssc-vm-1061 kernel: reqh-service-ut
Nov 4 02:25:31 ssc-vm-1061 kernel: . reqh service
0.00 sec 127 KiB
Nov 4 02:25:31 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 127 KiB, leake
d: 72 KiB ]
Nov 4 02:25:31 ssc-vm-1061 kernel: rm-ut
Nov 4 02:25:31 ssc-vm-1061 kernel: . api
0.00 sec 7 KiB
Nov 4 02:25:31 ssc-vm-1061 kernel: . lcredits
0.00 sec 17 KiB
Nov 4 02:25:31 ssc-vm-1061 kernel: . fop-funcs
0.00 sec 38 KiB
```

```
Nov 4 02:25:31 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 63 KiB, leaked:
0 B ]
Nov 4 02:25:31 ssc-vm-1061 kernel: rpc-machine-ut
Nov 4 02:25:31 ssc-vm-1061 kernel: . rpc_mc_init_fini
0.00 sec 3 KiB
Nov 4 02:25:32 ssc-vm-1061 kernel: . rpc_mc_fini_race
0.60 sec 103 KiB
Nov 4 02:25:32 ssc-vm-1061 kernel: . rpc_mc_init_fail
0.00 sec 1 KiB
Nov 4 02:25:32 ssc-vm-1061 kernel: . [ time: 0.60 sec, mem: 150 KiB, leake
d: 4 KiB ]
Nov 4 02:25:32 ssc-vm-1061 kernel: rpc-session-ut
Nov 4 02:25:32 ssc-vm-1061 kernel: . session-init-fini
0.00 sec 16 KiB
Nov 4 02:25:32 ssc-vm-1061 kernel: . session-check
0.00 sec 18 KiB
Nov 4 02:25:32 ssc-vm-1061 kernel: . session-establish-fail
0.00 sec 33 KiB
Nov 4 02:25:32 ssc-vm-1061 kernel: . session-terminate-fail
0.00 sec 35 KiB
Nov 4 02:25:32 ssc-vm-1061 kernel: . session-establish-reply-fail
0.00 sec 55 KiB
Nov 4 02:25:32 ssc-vm-1061 kernel: . session-terminate_reply-fail
0.00 sec 18 KiB
Nov 4 02:25:32 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 191 KiB, leake
d: 4 KiB ]
Nov 4 02:25:32 ssc-vm-1061 kernel: sm-ut
Nov 4 02:25:32 ssc-vm-1061 kernel: . transition
0.00 sec 0 B
Nov 4 02:25:32 ssc-vm-1061 kernel: . ast
0.00 sec 0 B
Nov 4 02:25:32 ssc-vm-1061 kernel: . timeout
0.04 sec 0 B
Nov 4 02:25:32 ssc-vm-1061 kernel: . group
0.00 sec 0 B
Nov 4 02:25:32 ssc-vm-1061 kernel: . chain
0.00 sec 0 B
Nov 4 02:25:32 ssc-vm-1061 kernel: . wait
0.00 sec 0 B
Nov 4 02:25:32 ssc-vm-1061 kernel: . [ time: 0.05 sec, mem: 0 B, leaked: 0
B ]
Nov 4 02:25:32 ssc-vm-1061 kernel: stob-ut
Nov 4 02:25:33 ssc-vm-1061 kernel: . cache
1.26 sec 9 KiB
Nov 4 02:25:34 ssc-vm-1061 kernel: . cache-idle-size0
1.01 sec 17 KiB
Nov 4 02:25:34 ssc-vm-1061 kernel: . [ time: 2.27 sec, mem: 26 KiB, leaked:
8 KiB ]
Nov 4 02:25:34 ssc-vm-1061 kernel: xcode-ut
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-cursor
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-length
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-encode
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-opaque
0.00 sec 0 B
```

```
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-decode
0.00 sec 216 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-nonstandard
0.00 sec 216 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-cmp
0.00 sec 432 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-read
0.00 sec 1 KiB
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-find
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-enum-gccxml [Nikita]
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-enum-print [Nikita]
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-enum-read [Nikita]
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-bitmask-print [Nikita]
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-bitmask-read [Nikita]
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-enum-loop [Nikita]
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-enum-field [Nikita]
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-iterate [Nikita]
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . xcode-flags [Nikita]
0.00 sec 0 B
Nov 4 02:25:34 ssc-vm-1061 kernel: . [ time: 0.00 sec, mem: 2 KiB, leaked:
0 B ]
Nov 4 02:25:34 ssc-vm-1061 kernel: #012Time: 113.64 sec, Mem: 371 MiB, Leaked:
14 MiB, Asserts: 22935554#012Unit tests status: SUCCESS
Nov 4 02:25:34 ssc-vm-1061 kernel: Motr m0lnet deregistered
```

Unit tests status: SUCCESS

Unit tests status: SUCCESS

/var/cortex/cortex-motr/ut/m0kut: line 219: 7026 Terminated

tail

-n 1 -F /var/log/messages

```
In [14]: !./scripts/m0 run-st -l
```

```
----- run_st -l -----  
01net  
02rpcping  
03console  
04sss  
05confgen  
06conf  
06hagen  
06ham  
07m0d-fatal  
07mount  
07mount-fail  
08spiel  
08spiel-multiple-confd  
08spiel-sns-repair  
08spiel-sns-repair-quiesce  
10pver-assign  
11m0t1fs  
11m0t1fs-rconfc-fail  
12fsync  
12fwait  
13dgmode-io  
14poolmach  
15sns-repair-shutdown  
15sns-repair-single  
16sns-repair-multi  
17sns-repair-concurrent-io  
18sns-repair-quiesce  
18sns-repair-quiesce-failure  
19sns-repair-abort  
20rpc-session-cancel  
21fsync-single-node  
22sns-repair-ios-fail  
23sns-abort-quiesce  
23spiel-dix-repair  
23spiel-dix-repair-quiesce  
24motr-dix-repair  
24stob-domain-recreate-on-corruption  
25m0kv  
26motr-user-kernel-tests  
34sns-repair-1n-1f  
40motr-dgmode  
41motr-conf-update  
42motr-utils  
43m0crate  
44motr-rm-lock-cc-io  
45motr-rmw  
51kem  
52motr-singlenode-sanity  
53clusterusage-alert  
60sns-repair-motr-1f  
61sns-repair-motr-1n-1f  
62sns-repair-motr-mf  
63sns-repair-motr-1k-1f  
64sns-repair-motr-ios-fail  
65sns-repair-motr-abort  
66sns-repair-motr-abort-quiesce
```



```
In [15]: !./scripts/m0 run-st 01net
```

```
----- run_st 01net -----
<< 01net >>
transfer machines endpoint prefix is 0@lo:12345:42
----- test client in user space, test server in user space
--- ping test (test message size is 4KiB)
avg out: 68.1MiB/s avg in: 68.2MiB/s total out: 68.2MiB total in: 68.2MiB avg
RTT: 387.585 us
avg out: 64.0MiB/s avg in: 64.0MiB/s total out: 128MiB total in: 128MiB avg
RTT: 412.117 us
avg out: 59.6MiB/s avg in: 59.6MiB/s total out: 179MiB total in: 179MiB avg
RTT: 444.870 us
avg out: 54.5MiB/s avg in: 54.5MiB/s total out: 218MiB total in: 218MiB avg
RTT: 485.095 us
avg out: 51.3MiB/s avg in: 51.3MiB/s total out: 257MiB total in: 257MiB avg
RTT: 516.312 us
clients total: messages total/failed/bad: sent = 65791/0/0, received = 65784/
0/0, bulk sent = 0/0/0, bulk received = 0/0/0, transfers = 65784/0/0; count/m
in/max/avg/stddev: MPS, sent = 5/9888/17446/13141/3306, MPS, received = 5/988
5/17448/13142/3307, RTT = 65784/47142/6681299/516365/260309 ns
servers total: messages total/failed/bad: sent = 65794/0/0, received = 65794/
0/0, bulk sent = 0/0/0, bulk received = 0/0/0, transfers = 0/0/0; count/min/m
ax/avg/stddev: MPS, sent = 5/9873/17445/13139/3307, MPS, received = 5/9877/17
447/13140/3307, RTT = 0/0/0/0/0 ns
--- bulk test (test message size is 1MiB)
avg out: 0B /s avg in: 2.16GiB/s total out: 2.17GiB total in: 2.16GiB avg
RTT: 3599.493 us
avg out: 1.95GiB/s avg in: 1.95GiB/s total out: 3.91GiB total in: 3.91GiB avg
RTT: 3987.259 us
avg out: 1.85GiB/s avg in: 1.85GiB/s total out: 5.55GiB total in: 5.55GiB avg
RTT: 4218.549 us
avg out: 1.79GiB/s avg in: 1.79GiB/s total out: 7.18GiB total in: 7.17GiB avg
RTT: 4350.519 us
avg out: 1.76GiB/s avg in: 1.76GiB/s total out: 8.82GiB total in: 8.82GiB avg
RTT: 4425.799 us
clients total: messages total/failed/bad: sent = 8653/0/0, received = 0/0/0,
bulk sent = 9032/0/0, bulk received = 9028/0/0, transfers = 9028/0/0; count/m
in/max/avg/stddev: MPS, sent = 5/1661/2214/1802/236, MPS, received = 5/1658/2
211/1801/235, RTT = 9028/2070716/12832661/4425800/818423 ns
servers total: messages total/failed/bad: sent = 0/0/0, received = 8654/0/0,
bulk sent = 9037/0/0, bulk received = 9037/0/0, transfers = 9037/0/0; count/m
in/max/avg/stddev: MPS, sent = 5/1661/2204/1800/231, MPS, received = 5/1658/2
210/1801/234, RTT = 9037/343031/10000481/4357272/813525 ns
----- test client in kernel space, test server in user space
--- ping test (test message size is 4KiB)
avg out: 44.5MiB/s avg in: 44.5MiB/s total out: 44.5MiB total in: 44.5MiB avg
RTT: 681.478 us
avg out: 62.3MiB/s avg in: 62.3MiB/s total out: 125MiB total in: 125MiB avg
RTT: 485.313 us
avg out: 70.1MiB/s avg in: 70.1MiB/s total out: 210MiB total in: 210MiB avg
RTT: 431.093 us
avg out: 72.1MiB/s avg in: 72.1MiB/s total out: 289MiB total in: 289MiB avg
RTT: 419.834 us
avg out: 74.9MiB/s avg in: 74.9MiB/s total out: 375MiB total in: 375MiB avg
RTT: 404.312 us
clients total: messages total/failed/bad: sent = 95952/0/0, received = 95944/
0/0, bulk sent = 0/0/0, bulk received = 0/0/0, transfers = 95944/0/0; count/m
in/max/avg/stddev: MPS, sent = 5/11399/21999/19167/4428, MPS, received = 5/11
```

```
391/22000/19166/4432, RTT = 95944/62355/9079499/404401/240404 ns
servers total: messages total/failed/bad: sent = 95941/0/0, received = 95949/
0/0, bulk sent = 0/0/0, bulk received = 0/0/0, transfers = 0/0/0; count/min/m
ax/avg/stddev: MPS, sent = 5/11360/21986/19159/4443, MPS, received = 5/11368/
21985/19161/4440, RTT = 0/0/0/0/0 ns
--- bulk test (test message size is 1MiB)
avg out: 1.96GiB/s avg in: 0B /s total out: 1.96GiB total in: 1.95GiB avg
RTT: 3986.431 us
avg out: 1.86GiB/s avg in: 1.86GiB/s total out: 3.74GiB total in: 3.74GiB avg
RTT: 4180.842 us
avg out: 1.88GiB/s avg in: 1.88GiB/s total out: 5.67GiB total in: 5.66GiB avg
RTT: 4139.270 us
avg out: 2.04GiB/s avg in: 2.03GiB/s total out: 8.16GiB total in: 8.16GiB avg
RTT: 3830.146 us
avg out: 2.16GiB/s avg in: 2.16GiB/s total out: 10.8GiB total in: 10.8GiB avg
RTT: 3614.433 us
clients total: messages total/failed/bad: sent = 10846/0/0, received = 0/0/0,
bulk sent = 11073/0/0, bulk received = 11068/0/0, transfers = 11068/0/0; coun
t/min/max/avg/stddev: MPS, sent = 5/1814/2703/2209/395, MPS, received = 5/181
7/2703/2207/394, RTT = 11068/1687658/11680785/3614340/948152 ns
servers total: messages total/failed/bad: sent = 0/0/0, received = 6112/0/0,
bulk sent = 6324/0/0, bulk received = 6324/0/0, transfers = 6324/0/0; count/m
in/max/avg/stddev: MPS, sent = 3/1814/1997/1927/99, MPS, received = 3/1817/19
98/1927/96, RTT = 6324/309827/10839743/4039094/811729 ns
----- test client in user space, test server in kernel space
--- ping test (test message size is 4KiB)
avg out: 83.0MiB/s avg in: 83.0MiB/s total out: 83.1MiB total in: 83.1MiB avg
RTT: 328.576 us
avg out: 81.9MiB/s avg in: 81.9MiB/s total out: 164MiB total in: 164MiB avg
RTT: 330.164 us
avg out: 78.0MiB/s avg in: 78.0MiB/s total out: 234MiB total in: 234MiB avg
RTT: 345.324 us
avg out: 77.6MiB/s avg in: 77.6MiB/s total out: 311MiB total in: 311MiB avg
RTT: 346.156 us
avg out: 79.6MiB/s avg in: 79.6MiB/s total out: 399MiB total in: 399MiB avg
RTT: 339.363 us
clients total: messages total/failed/bad: sent = 102046/0/0, received = 10204
5/0/0, bulk sent = 0/0/0, bulk received = 0/0/0, transfers = 102045/0/0; coun
t/min/max/avg/stddev: MPS, sent = 5/18018/22383/20378/1664, MPS, received =
5/18018/22383/20378/1664, RTT = 102045/34104/4670015/339504/123839 ns
servers total: messages total/failed/bad: sent = 102058/0/0, received = 10205
8/0/0, bulk sent = 0/0/0, bulk received = 0/0/0, transfers = 0/0/0; count/mi
n/max/avg/stddev: MPS, sent = 5/18018/22382/20378/1664, MPS, received = 5/180
18/22382/20378/1664, RTT = 0/0/0/0/0 ns
--- bulk test (test message size is 1MiB)
avg out: 1.92GiB/s avg in: 1.92GiB/s total out: 1.93GiB total in: 1.92GiB avg
RTT: 4047.695 us
avg out: 1.89GiB/s avg in: 1.89GiB/s total out: 3.78GiB total in: 3.78GiB avg
RTT: 4124.738 us
avg out: 1.89GiB/s avg in: 1.89GiB/s total out: 5.67GiB total in: 5.67GiB avg
RTT: 4126.773 us
avg out: 1.90GiB/s avg in: 1.90GiB/s total out: 7.63GiB total in: 7.63GiB avg
RTT: 4093.608 us
avg out: 1.92GiB/s avg in: 1.92GiB/s total out: 9.63GiB total in: 9.63GiB avg
RTT: 4064.021 us
clients total: messages total/failed/bad: sent = 9233/0/0, received = 0/0/0,
bulk sent = 9864/0/0, bulk received = 9860/0/0, transfers = 9860/0/0; count/m
```

in/max/avg/stddev: MPS, sent = 5/1899/2017/1963/48, MPS, received = 5/1899/2018/1962/48, RTT = 9860/1919830/10556170/4064022/508485 ns
servers total: messages total/failed/bad: sent = 0/0/0, received = 9233/0/0, bulk sent = 9868/0/0, bulk received = 9868/0/0, transfers = 9868/0/0; count/m
in/max/avg/stddev: MPS, sent = 5/1899/2017/1962/48, MPS, received = 5/1899/2021/1963/49, RTT = 9868/714101/7495087/3979723/413784 ns
net: test status: SUCCESS
7.84user 36.59system 1:49.45elapsed 40%CPU (0avgtext+0avgdata 73324maxresident)k
1488inputs+578688outputs (31major+270837minor)pagefaults 0swaps

```
In [16]: !./scripts/m0 run-st 43m0crate
```

```
----- run_st 43m0crate -----
<< 43m0crate >>
m0crate TEST ...
/var/cortex/cortex-motr/motr/st/utils/m0crate_st_workloads.yaml
n k p:2 1 4
vm.max_map_count = 30000000
motr_service_start: (N,K,P)=(3,2,20) nr_ios=4 multiple_pools=0
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.0015175 s, 691 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00140134 s, 748 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00176833 s, 593 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00196059 s, 535 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00172648 s, 607 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00174718 s, 600 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.0014331 s, 732 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00113672 s, 922 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00144943 s, 723 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00156681 s, 669 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00113353 s, 925 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00143307 s, 732 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00150619 s, 696 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00119051 s, 881 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00112551 s, 932 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00127964 s, 819 MB/s
1+0 records in
1+0 records out
```

1048576 bytes (1.0 MB) copied, 0.00139696 s, 751 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.0010447 s, 1.0 GB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00182782 s, 574 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00127083 s, 825 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00175606 s, 597 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00119816 s, 875 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.0014311 s, 733 MB/s
1+0 records in
1+0 records out
1048576 bytes (1.0 MB) copied, 0.00111365 s, 942 MB/s

[152:

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{0x74| ((^t|1:0), 1, (11, 22), ^o|2:9, ^v|1:20, 1,
      [1: "20 3 2"],
      [1: ^n|1:2],
      [1: ^S|1:6],
      [3: ^o|1:9, ^o|20:1, ^o|2:9],
      [1: ^p|1:0], [0])},
{0x70| ((^p|1:0), [3: ^o|1:9, ^o|20:1, ^o|2:9])},
{0x6e| ((^n|1:2), 16000, 2, 3, 2, [8: ^r|1:100, ^r|1:0, ^r|1:1, ^r|1:2, ^r|
1:3, ^r|1:4, ^r|1:5, ^r|1:6])},

{0x72| ((^r|1:100), [1:3], 0, 0, 0, 0, "10.230.247.0@tcp:12345:33:1", [1: ^
s|1:101])},
{0x72| ((^r|1:0), [1:3], 0, 0, 0, 0, "10.230.247.0@tcp:12345:33:900", [8: ^
s|1:0, ^s|11:0, ^s|6:0, ^s|7:0, ^s|3:0, ^s|13:0, ^
s|15:0, ^s|16:0])},
{0x72| ((^r|1:1), [1:3], 0, 0, 0, 0, "10.230.247.0@tcp:12345:33:901", [8: ^
s|1:1, ^s|11:1, ^s|6:1, ^s|7:1, ^s|3:1, ^s|13:1, ^
s|15:1, ^s|16:1])},
{0x72| ((^r|1:2), [1:3], 0, 0, 0, 0, "10.230.247.0@tcp:12345:33:902", [8: ^
s|1:2, ^s|11:2, ^s|6:2, ^s|7:2, ^s|3:2, ^s|13:2, ^
s|15:2, ^s|16:2])},
{0x72| ((^r|1:3), [1:3], 0, 0, 0, 0, "10.230.247.0@tcp:12345:33:903", [8: ^
s|1:3, ^s|11:3, ^s|6:3, ^s|7:3, ^s|3:3, ^s|13:3, ^
s|15:3, ^s|16:3])},
{0x72| ((^r|1:4), [1:3], 0, 0, 0, 0, "10.230.247.0@tcp:12345:33:800", [3: ^s
|2:0, ^s|12:0, ^s|3:4])},
{0x72| ((^r|1:5), [1:3], 0, 0, 0, 0, "10.230.247.0@tcp:12345:34:1",
      [3: ^s|1:6, ^s|1:7, ^s|3:6])},
{0x72| ((^r|1:6), [1:3], 0, 0, 0, 0, "10.230.247.0@tcp:12345:33:100",
      [2: ^s|8:0, ^s|3:7])},
{0x73| ((^s|8:0), @M0_CST_CONFD, [1: "10.230.247.0@tcp:12345:33:100"], [0],
[0])},
{0x73| ((^s|1:6), @M0_CST_HA, [1: "10.230.247.0@tcp:12345:34:1"], [0],
```



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[0])),
  {0x73| ((^s|1:7), @M0_CST_FIS, [1: "10.230.247.0@tcp:12345:34:1"], [0],
[0])),
  {0x73| ((^s|1:101), @M0_CST_RMS, [1: "10.230.247.0@tcp:12345:33:1"], [0],
[0])),

  {0x73| ((^s|2:0), @M0_CST_MDS, [1: "10.230.247.0@tcp:12345:33:800"], [0],
[0])),
  {0x73| ((^s|12:0), @M0_CST_ADDB2, [1: "10.230.247.0@tcp:12345:33:800"],
[0], [0])),
  {0x73| ((^s|3:4), @M0_CST_RMS, [1: "10.230.247.0@tcp:12345:33:800"], [0],
[0])),

  {0x73| ((^s|1:0), @M0_CST_IOS, [1: "10.230.247.0@tcp:12345:33:900"], [0],
[5: ^d|1:1, ^d|1:2, ^d|1:3, ^d|1:4, ^d|1:5])},
  {0x73| ((^s|11:0), @M0_CST_ADDB2, [1: "10.230.247.0@tcp:12345:33:900"],
[0], [0])),
  {0x73| ((^s|6:0), @M0_CST_SNS_REP, [1: "10.230.247.0@tcp:12345:33:900"],
[0], [0])),
  {0x73| ((^s|7:0), @M0_CST_SNS_REB, [1: "10.230.247.0@tcp:12345:33:900"],
[0], [0])),
  {0x73| ((^s|3:0), @M0_CST_RMS, [1: "10.230.247.0@tcp:12345:33:900"], [0],
[0])),
  {0x73| ((^s|13:0), @M0_CST_CAS, [1: "10.230.247.0@tcp:12345:33:900"], [0],
[1: ^d|20:0])},
  {0x73| ((^s|15:0), @M0_CST_DIX_REP, [1: "10.230.247.0@tcp:12345:33:900"],
[0], [0])),
  {0x73| ((^s|16:0), @M0_CST_DIX_REB, [1: "10.230.247.0@tcp:12345:33:900"],
[0], [0])),
  {0x73| ((^s|1:1), @M0_CST_IOS, [1: "10.230.247.0@tcp:12345:33:901"], [0],
[5: ^d|1:6, ^d|1:7, ^d|1:8, ^d|1:9, ^d|1:10])},
  {0x73| ((^s|11:1), @M0_CST_ADDB2, [1: "10.230.247.0@tcp:12345:33:901"],
[0], [0])),
  {0x73| ((^s|6:1), @M0_CST_SNS_REP, [1: "10.230.247.0@tcp:12345:33:901"],
[0], [0])),
  {0x73| ((^s|7:1), @M0_CST_SNS_REB, [1: "10.230.247.0@tcp:12345:33:901"],
[0], [0])),
  {0x73| ((^s|3:1), @M0_CST_RMS, [1: "10.230.247.0@tcp:12345:33:901"], [0],
[0])),
  {0x73| ((^s|13:1), @M0_CST_CAS, [1: "10.230.247.0@tcp:12345:33:901"], [0],
[1: ^d|20:1])},
  {0x73| ((^s|15:1), @M0_CST_DIX_REP, [1: "10.230.247.0@tcp:12345:33:901"],
[0], [0])),
  {0x73| ((^s|16:1), @M0_CST_DIX_REB, [1: "10.230.247.0@tcp:12345:33:901"],
[0], [0])),
  {0x73| ((^s|1:2), @M0_CST_IOS, [1: "10.230.247.0@tcp:12345:33:902"], [0],
[5: ^d|1:11, ^d|1:12, ^d|1:13, ^d|1:14, ^d|1:15])},
  {0x73| ((^s|11:2), @M0_CST_ADDB2, [1: "10.230.247.0@tcp:12345:33:902"],
[0], [0])),
  {0x73| ((^s|6:2), @M0_CST_SNS_REP, [1: "10.230.247.0@tcp:12345:33:902"],
[0], [0])),
  {0x73| ((^s|7:2), @M0_CST_SNS_REB, [1: "10.230.247.0@tcp:12345:33:902"],
[0], [0])),
  {0x73| ((^s|3:2), @M0_CST_RMS, [1: "10.230.247.0@tcp:12345:33:902"], [0],
[0])),
  {0x73| ((^s|13:2), @M0_CST_CAS, [1: "10.230.247.0@tcp:12345:33:902"], [0],
[1: ^d|20:2])},
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{0x73| ((^s|15:2), @M0_CST_DIX_REP, [1: "10.230.247.0@tcp:12345:33:902"],
[0], [0]))},
{0x73| ((^s|16:2), @M0_CST_DIX_REB, [1: "10.230.247.0@tcp:12345:33:902"],
[0], [0]))},
{0x73| ((^s|1:3), @M0_CST_IOS, [1: "10.230.247.0@tcp:12345:33:903"], [0],
[5: ^d|1:16, ^d|1:17, ^d|1:18, ^d|1:19, ^d|1:20]))},
{0x73| ((^s|11:3), @M0_CST_ADDB2, [1: "10.230.247.0@tcp:12345:33:903"],
[0], [0]))},
{0x73| ((^s|6:3), @M0_CST_SNS_REP, [1: "10.230.247.0@tcp:12345:33:903"],
[0], [0]))},
{0x73| ((^s|7:3), @M0_CST_SNS_REB, [1: "10.230.247.0@tcp:12345:33:903"],
[0], [0]))},
{0x73| ((^s|3:3), @M0_CST_RMS, [1: "10.230.247.0@tcp:12345:33:903"], [0],
[0]))},
{0x73| ((^s|13:3), @M0_CST_CAS, [1: "10.230.247.0@tcp:12345:33:903"], [0],
[1: ^d|20:3]))},
{0x73| ((^s|15:3), @M0_CST_DIX_REP, [1: "10.230.247.0@tcp:12345:33:903"],
[0], [0]))},
{0x73| ((^s|16:3), @M0_CST_DIX_REB, [1: "10.230.247.0@tcp:12345:33:903"],
[0], [0]))},

{0x73| ((^s|3:6), @M0_CST_RMS, [1: "10.230.247.0@tcp:12345:34:1"], [0],
[0]))},
{0x73| ((^s|3:7), @M0_CST_RMS, [1: "10.230.247.0@tcp:12345:33:100"], [0],
[0]))},
{0x64| ((^d|1:1), 0, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop1"))},
{0x6b| ((^k|1:1), ^d|1:1, [1: ^v|1:10]))},
{0x6a| ((^j|1:1), ^k|1:1, [0]))},
{0x64| ((^d|1:2), 1, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop2"))},
{0x6b| ((^k|1:2), ^d|1:2, [1: ^v|1:10]))},
{0x6a| ((^j|1:2), ^k|1:2, [0]))},
{0x64| ((^d|1:3), 2, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop3"))},
{0x6b| ((^k|1:3), ^d|1:3, [1: ^v|1:10]))},
{0x6a| ((^j|1:3), ^k|1:3, [0]))},
{0x64| ((^d|1:4), 3, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop4"))},
{0x6b| ((^k|1:4), ^d|1:4, [1: ^v|1:10]))},
{0x6a| ((^j|1:4), ^k|1:4, [0]))},
{0x64| ((^d|1:5), 4, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop5"))},
{0x6b| ((^k|1:5), ^d|1:5, [1: ^v|1:10]))},
{0x6a| ((^j|1:5), ^k|1:5, [0]))},
{0x64| ((^d|1:6), 5, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop6"))},
{0x6b| ((^k|1:6), ^d|1:6, [1: ^v|1:10]))},
{0x6a| ((^j|1:6), ^k|1:6, [0]))},
{0x64| ((^d|1:7), 6, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop7"))},
{0x6b| ((^k|1:7), ^d|1:7, [1: ^v|1:10]))},
{0x6a| ((^j|1:7), ^k|1:7, [0]))},
{0x64| ((^d|1:8), 7, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop8"))},
{0x6b| ((^k|1:8), ^d|1:8, [1: ^v|1:10]))},
{0x6a| ((^j|1:8), ^k|1:8, [0]))},
{0x64| ((^d|1:9), 8, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop9"))},
{0x6b| ((^k|1:9), ^d|1:9, [1: ^v|1:10]))},
{0x6a| ((^j|1:9), ^k|1:9, [0]))},
{0x64| ((^d|1:10), 9, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop10"))},
{0x6b| ((^k|1:10), ^d|1:10, [1: ^v|1:10]))},
{0x6a| ((^j|1:10), ^k|1:10, [0]))},
{0x64| ((^d|1:11), 10, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop11"))},
{0x6b| ((^k|1:11), ^d|1:11, [1: ^v|1:10]))},
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{0x6a| ((^j|1:11), ^k|1:11, [0])},
{0x64| ((^d|1:12), 11, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop12")},
{0x6b| ((^k|1:12), ^d|1:12, [1: ^v|1:10])},
{0x6a| ((^j|1:12), ^k|1:12, [0])},
{0x64| ((^d|1:13), 12, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop13")},
{0x6b| ((^k|1:13), ^d|1:13, [1: ^v|1:10])},
{0x6a| ((^j|1:13), ^k|1:13, [0])},
{0x64| ((^d|1:14), 13, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop14")},
{0x6b| ((^k|1:14), ^d|1:14, [1: ^v|1:10])},
{0x6a| ((^j|1:14), ^k|1:14, [0])},
{0x64| ((^d|1:15), 14, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop15")},
{0x6b| ((^k|1:15), ^d|1:15, [1: ^v|1:10])},
{0x6a| ((^j|1:15), ^k|1:15, [0])},
{0x64| ((^d|1:16), 15, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop16")},
{0x6b| ((^k|1:16), ^d|1:16, [1: ^v|1:10])},
{0x6a| ((^j|1:16), ^k|1:16, [0])},
{0x64| ((^d|1:17), 16, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop17")},
{0x6b| ((^k|1:17), ^d|1:17, [1: ^v|1:10])},
{0x6a| ((^j|1:17), ^k|1:17, [0])},
{0x64| ((^d|1:18), 17, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop18")},
{0x6b| ((^k|1:18), ^d|1:18, [1: ^v|1:10])},
{0x6a| ((^j|1:18), ^k|1:18, [0])},
{0x64| ((^d|1:19), 18, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop19")},
{0x6b| ((^k|1:19), ^d|1:19, [1: ^v|1:10])},
{0x6a| ((^j|1:19), ^k|1:19, [0])},
{0x64| ((^d|1:20), 19, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop20")},
{0x6b| ((^k|1:20), ^d|1:20, [1: ^v|1:10])},
{0x6a| ((^j|1:20), ^k|1:20, [0])},
{0x53| ((^S|1:6), [1: ^a|1:6], [3: ^v|1:10, ^v|1:20, ^v|2:10])},
{0x61| ((^a|1:6), [1: ^e|1:7], [3: ^v|1:10, ^v|1:20, ^v|2:10])},
{0x65| ((^e|1:7), [1: ^c|1:8], [3: ^v|1:10, ^v|1:20, ^v|2:10])},
{0x63| ((^c|1:8), ^n|1:2, [24: ^k|1:1, ^k|1:2, ^k|1:3, ^k|1:4, ^k|1:5, ^k|
1:6, ^k|1:7, ^k|1:8, ^k|1:9, ^k|1:10, ^k|1:11, ^k|1:12, ^k|1:13, ^k|1:14, ^k|
1:15, ^k|1:16, ^k|1:17, ^k|1:18, ^k|1:19, ^k|1:20, ^k|20:0, ^k|20:1, ^k|20:2,
^k|20:3],
[3: ^v|1:10, ^v|1:20, ^v|2:10])},
{0x6f| ((^o|1:9), 0, [3: ^v|1:10, ^v|0x40000000000001:11, ^v|0x400000000000
01:12])},
{0x76| ((^v|1:10), {0| (3, 2,
20,
[5: 0, 0, 0, 0, 2],
[1: ^j|1:21])})},
{0x76| ((^v|0x40000000000001:11), {1| (0, ^v|1:10, [5: 0, 0, 0, 0, 1])})},
{0x76| ((^v|0x40000000000001:12), {1| (1, ^v|1:10, [5: 0, 0, 0, 0, 2])})},
{0x6a| ((^j|1:21), ^S|1:6, [1: ^j|1:22])},
{0x6a| ((^j|1:22), ^a|1:6, [1: ^j|1:23])},
{0x6a| ((^j|1:23), ^e|1:7, [1: ^j|1:24])},
{0x6a| ((^j|1:24), ^c|1:8, [20: ^j|1:1, ^j|1:2, ^j|1:3, ^j|1:4, ^j|1:5, ^j|
1:6, ^j|1:7, ^j|1:8, ^j|1:9, ^j|1:10, ^j|1:11, ^j|1:12, ^j|1:13, ^j|1:14, ^j|
1:15, ^j|1:16, ^j|1:17, ^j|1:18, ^j|1:19, ^j|1:20])} ,
{0x6f| ((^o|2:9), 0, [1: ^v|2:10])},
{0x76| ((^v|2:10), {0| (4, 0, 4, [5: 0, 0, 0, 0, 1], [1: ^j|2:21])})},
{0x6a| ((^j|2:21), ^S|1:6, [1: ^j|2:22])},
{0x6a| ((^j|2:22), ^a|1:6, [1: ^j|2:23])},
{0x6a| ((^j|2:23), ^e|1:7, [1: ^j|2:24])},
{0x6a| ((^j|2:24), ^c|1:8, [4: ^j|2:1, ^j|2:6, ^j|2:11, ^j|2:16])},
{0x6a| ((^j|2:1), ^k|1:1, [0])},

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{0x6a| ((^j|2:6), ^k|1:6, [0])},
{0x6a| ((^j|2:11), ^k|1:11, [0])},
{0x6a| ((^j|2:16), ^k|1:16, [0])} ,
{0x64| ((^d|20:0), 20, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop25")},
{0x6b| ((^k|20:0), ^d|20:0, [1: ^v|1:20])},
{0x6a| ((^j|20:100), ^k|20:0, [0])},
{0x64| ((^d|20:1), 21, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop26")},
{0x6b| ((^k|20:1), ^d|20:1, [1: ^v|1:20])},
{0x6a| ((^j|20:101), ^k|20:1, [0])},
{0x64| ((^d|20:2), 22, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop27")},
{0x6b| ((^k|20:2), ^d|20:2, [1: ^v|1:20])},
{0x6a| ((^j|20:102), ^k|20:2, [0])},
{0x64| ((^d|20:3), 23, 4, 1, 4096, 596000000000, 3, 4, "/dev/loop28")},
{0x6b| ((^k|20:3), ^d|20:3, [1: ^v|1:20])},
{0x6a| ((^j|20:103), ^k|20:3, [0])},
{0x6f| ((^o|20:1), 0, [1: ^v|1:20])},
{0x76| ((^v|1:20), {0| (1, 1, 4,
[5: 0, 0, 0, 0, 1],
[1: ^j|20:1])})},

```

```

{0x6a| ((^j|20:1), ^S|1:6, [1: ^j|20:2])},
{0x6a| ((^j|20:2), ^a|1:6, [1: ^j|20:3])},
{0x6a| ((^j|20:3), ^e|1:7, [1: ^j|20:4])},
{0x6a| ((^j|20:4), ^c|1:8, [4: ^j|20:100, ^j|20:101, ^j|20:102, ^j|20:103])}]

```

```

cd /var/motr/root/sandbox.st-43m0crate/confd && exec /var/cortex/cortex-motr/ut
ils/mkfs/m0mkfs -F -D db -S stobs -A linuxstob:addb-stobs -w 20 -m 65536 -q 1
6 -N 100663296 -C 262144 -K 100663296 -k 262144 -T linux -e lnet:10.230.247.0
@tcp:12345:35:1 -c /var/motr/root/sandbox.st-43m0crate/confd/conf.xc |& tee -
a m0mkfs.log

```

```

cd /var/motr/root/sandbox.st-43m0crate/confd && exec /var/cortex/cortex-motr/mo
tr/m0d -D db -S stobs -A linuxstob:addb-stobs -w 20 -m 65536 -q 16 -N 1006632
96 -C 262144 -K 100663296 -k 262144 -f '<0x7200000000000001:6>' -T linux -e l
net:10.230.247.0@tcp:12345:33:100 -c /var/motr/root/sandbox.st-43m0crate/conf
d/conf.xc |& tee -a m0d.log

```

```

cd /var/motr/root/sandbox.st-43m0crate/ha && exec /var/cortex/cortex-motr/util
s/mkfs/m0mkfs -F -D db -S stobs -A linuxstob:addb-stobs -w 20 -m 65536 -q 16
-N 100663296 -C 262144 -K 100663296 -k 262144 -T ad -e lnet:10.230.247.0@tcp:
12345:35:1 -c /var/motr/root/sandbox.st-43m0crate/confd/conf.xc |& tee -a m0m
kfs.log

```

lt-m0d: systemd notifications not allowed

Started

Press CTRL+C to quit.

```

cd /var/motr/root/sandbox.st-43m0crate/mds1 && exec /var/cortex/cortex-motr/uti
ls/mkfs/m0mkfs -F -T ad -D db -S stobs -A linuxstob:addb-stobs -w 20 -m 65536
-q 16 -N 100663296 -C 262144 -K 100663296 -k 262144 -e lnet:10.230.247.0@tcp:
12345:35:800 -c /var/motr/root/sandbox.st-43m0crate/confd/conf.xc |& tee -a m
0mkfs.log

```

```

cd /var/motr/root/sandbox.st-43m0crate/ios1 && exec /var/cortex/cortex-motr/uti
ls/mkfs/m0mkfs -F -T ad -d disks.conf -D db -S stobs -A linuxstob:addb-stobs
-w 20 -m 65536 -q 16 -N 100663296 -C 262144 -K 100663296 -k 262144 -e lnet:1
0.230.247.0@tcp:12345:35:900 -f '<0x7200000000000001:0>' -c /var/motr/root/sa
ndbox.st-43m0crate/confd/conf.xc |& tee -a m0mkfs.log

```

```

cd /var/motr/root/sandbox.st-43m0crate/ios2 && exec /var/cortex/cortex-motr/uti
ls/mkfs/m0mkfs -F -T ad -d disks.conf -D db -S stobs -A linuxstob:addb-stobs
-w 20 -m 65536 -q 16 -N 100663296 -C 262144 -K 100663296 -k 262144 -e lnet:1
0.230.247.0@tcp:12345:35:901 -f '<0x7200000000000001:1>' -c /var/motr/root/sa

```

```
ndbox.st-43m0crate/confd/conf.xc |& tee -a m0mkfs.log
cd /var/motr/root/sandbox.st-43m0crate/ios3 && exec /var/cortx/cortx-motr/uti
ls/mkfs/m0mkfs -F -T ad -d disks.conf -D db -S stobs -A linuxstob:adb-stobs
-w 20 -m 65536 -q 16 -N 100663296 -C 262144 -K 100663296 -k 262144 -e lnet:1
0.230.247.0@tcp:12345:35:902 -f '<0x7200000000000001:2>' -c /var/motr/root/sa
ndbox.st-43m0crate/confd/conf.xc |& tee -a m0mkfs.log
cd /var/motr/root/sandbox.st-43m0crate/ios4 && exec /var/cortx/cortx-motr/uti
ls/mkfs/m0mkfs -F -T ad -d disks.conf -D db -S stobs -A linuxstob:adb-stobs
-w 20 -m 65536 -q 16 -N 100663296 -C 262144 -K 100663296 -k 262144 -e lnet:1
0.230.247.0@tcp:12345:35:903 -f '<0x7200000000000001:3>' -c /var/motr/root/sa
ndbox.st-43m0crate/confd/conf.xc |& tee -a m0mkfs.log
cd /var/motr/root/sandbox.st-43m0crate/ha && exec /var/cortx/cortx-motr/motr/
m0d -D db -S stobs -A linuxstob:adb-stobs -w 20 -m 65536 -q 16 -N 100663296
-C 262144 -K 100663296 -k 262144 -T ad -e lnet:10.230.247.0@tcp:12345:34:1 -c
/var/motr/root/sandbox.st-43m0crate/confd/conf.xc -f '<0x7200000000000001:5>'
-H 10.230.247.0@tcp:12345:34:1 |& tee -a m0d.log
lt-m0d: systemd notifications not allowed
```

Started

Press CTRL+C to quit.

Motr HA agent started.

```
cd /var/motr/root/sandbox.st-43m0crate/mds1 && exec /var/cortx/cortx-motr/motr/
m0d -T ad -D db -S stobs -A linuxstob:adb-stobs -w 20 -m 65536 -q 16 -N 10
0663296 -C 262144 -K 100663296 -k 262144 -e lnet:10.230.247.0@tcp:12345:33:80
0 -f '<0x7200000000000001:4>' -H 10.230.247.0@tcp:12345:34:1 -c /var/motr/roo
t/sandbox.st-43m0crate/confd/conf.xc |& tee -a m0d.log
lt-m0d: systemd notifications not allowed
```

Started

Press CTRL+C to quit.

```
cd /var/motr/root/sandbox.st-43m0crate/ios1 && exec /var/cortx/cortx-motr/motr/
m0d -T ad -d disks.conf -D db -S stobs -A linuxstob:adb-stobs -w 20 -m 655
36 -q 16 -N 100663296 -C 262144 -K 100663296 -k 262144 -e lnet:10.230.247.0@t
cp:12345:33:900 -f '<0x7200000000000001:0>' -H 10.230.247.0@tcp:12345:34:1 |&
tee -a m0d.log
```

```
cd /var/motr/root/sandbox.st-43m0crate/ios2 && exec /var/cortx/cortx-motr/motr/
m0d -T ad -d disks.conf -D db -S stobs -A linuxstob:adb-stobs -w 20 -m 655
36 -q 16 -N 100663296 -C 262144 -K 100663296 -k 262144 -e lnet:10.230.247.0@t
cp:12345:33:901 -f '<0x7200000000000001:1>' -H 10.230.247.0@tcp:12345:34:1 |&
tee -a m0d.log
```

```
cd /var/motr/root/sandbox.st-43m0crate/ios3 && exec /var/cortx/cortx-motr/motr/
m0d -T ad -d disks.conf -D db -S stobs -A linuxstob:adb-stobs -w 20 -m 655
36 -q 16 -N 100663296 -C 262144 -K 100663296 -k 262144 -e lnet:10.230.247.0@t
cp:12345:33:902 -f '<0x7200000000000001:2>' -H 10.230.247.0@tcp:12345:34:1 |&
tee -a m0d.log
```

```
cd /var/motr/root/sandbox.st-43m0crate/ios4 && exec /var/cortx/cortx-motr/motr/
m0d -T ad -d disks.conf -D db -S stobs -A linuxstob:adb-stobs -w 20 -m 655
36 -q 16 -N 100663296 -C 262144 -K 100663296 -k 262144 -e lnet:10.230.247.0@t
cp:12345:33:903 -f '<0x7200000000000001:3>' -H 10.230.247.0@tcp:12345:34:1 |&
tee -a m0d.log
```

Motr confd started.

Motr mdservices started.

lt-m0d: systemd notifications not allowed

lt-m0d: systemd notifications not allowed

lt-m0d: systemd notifications not allowed

lt-m0d: systemd notifications not allowed

Started

Press CTRL+C to quit.

Started

Press CTRL+C to quit.

Started

Press CTRL+C to quit.

Started

Press CTRL+C to quit.

Motr ioservices started.

motr service started

*** m0dixinit is omitted. Mkfs creates meta indices now.

dd if=/dev/urandom bs=4096 count=4096 of=/var/motr/root/sandbox.st-43m0crate/
m0crate_16MB

info: starting workload 0

info: workload type io/2

info: random seed: 0

info: number of threads: 2

info: I/O workload is finished.

info: Total: time=[6:518840011] objs=4 ops=244

info: C: [0:006670608] ([0:003109074] per op)

info: O: [0:003778436] ([0:001769630] per op)

info: D: [0:470030958] ([0:231131586] per op)

info: W: [6:052621353] ([0:042235439] per op), 3904 KiB, 645 KiB/s

info: done workload 0

info: -----

info: starting workload 1

info: workload type io/2

info: random seed: 0

info: number of threads: 5

info: I/O workload is finished.

info: Total: time=[27:030329983] objs=25 ops=250

info: C: [0:029867686] ([0:004411567] per op)

info: O: [0:028086516] ([0:003321708] per op)

info: W: [14:507107968] ([0:477851908] per op), 512000 KiB, 35293 KiB/s

info: done workload 1

info: -----

info: starting workload 2

info: workload type io/2

info: random seed: 0

info: number of threads: 5

info: I/O workload is finished.

info: Total: time=[42:974307805] objs=25 ops=0

info: O: [0:093871754] ([0:005136711] per op)

info: D: [21:586368528] ([4:034097751] per op)

info: done workload 2

info: -----

info: starting workload 3

info: workload type index/3

info: random seed: 0

info: number of threads: 1

info: average size: 65536

info: maximal size: 1048576

info: block size: 0

info: number of operations: 1000

```

info: oflags:                0
info: bound mode:            off
info: dix: End of operations.
result: all, 18.560887
info: done workload 3
info: -----
=== pids of services: 11839 11830 11824 11820 11728 11636 10990 ===
Shutting down services one by one. mdservice is the last.
----- 11839 stopping-----lt-m0d: got signal 1
motr[11839]: 3d60 ERROR [conf/rconfc.c:1199:rconfc_fail] rconfc: 0x7ffea2
50a4c0, state M0_RCS_IDLE failed with -22
----- 11839 stopped -----
----- 11830 stopping-----lt-m0d: got signal 1
motr[11830]: e740 ERROR [conf/rconfc.c:1199:rconfc_fail] rconfc: 0x7ffd20
ab4ea0, state M0_RCS_IDLE failed with -22
----- 11830 stopped -----
----- 11824 stopping-----lt-m0d: got signal 1
motr[11824]: 1a50 ERROR [conf/rconfc.c:1199:rconfc_fail] rconfc: 0x7ffc39
1d81b0, state M0_RCS_IDLE failed with -22
----- 11824 stopped -----
----- 11820 stopping-----lt-m0d: got signal 1
motr[11820]: 4f10 ERROR [conf/rconfc.c:1199:rconfc_fail] rconfc: 0x7ffe02
38b670, state M0_RCS_IDLE failed with -22
----- 11820 stopped -----
----- 11728 stopping-----lt-m0d: got signal 1
----- 11728 stopped -----
----- 11636 stopping-----lt-m0d: got signal 1
motr[11636]: 6860 WARN [ha/link.c:1513:ha_link_outgoing_fom_tick] rlk_rc
=-110 endpoint=10.230.247.0@tcp:12345:33:800
motr[11636]: 6860 WARN [ha/link.c:1513:ha_link_outgoing_fom_tick] rlk_rc
=-110 endpoint=10.230.247.0@tcp:12345:33:900
----- 11636 stopped -----
----- 10990 stopping-----lt-m0d: got signal 1
----- 10990 stopped -----
m0tr                13943182  0
galois              22944   1 m0tr
lnet                586401   3 m0tr,ksocklnd
Motr services stopped.
m0crate: test status: SUCCESS
254.71user 27.38system 3:16.75elapsed 143%CPU (0avgtext+0avgdata 958948maxres
ident)k
72520inputs+6007448outputs (53major+2527513minor)pagefaults 0swaps

```

In []: