


```

self._d_out.data = 100
self._outOut.write()
ret = self._inln.isNew()
self.assertTrue(ret)
data = self._inln.read()
self.assertEqual(data.data, 100)

```

test_Pull

```

self._d_out.data = 100
self._outOut.write()
data = self._inln.read()
self.assertEqual(data.data, 100)

```

#3 - 02/18/2016 02:32 PM - n-ando

rtc.conf

```

port.outport.shem_default_size: <byte>
1M: byte 1M
2k: byte 2k
1024: 1024 byte
port.inport.shem_default_size: 1M

```

```


```

```


```

#4 - 02/24/2016 12:20 AM - miyamoto

```


```

```


```

```

Linux

```

```

int fd = shm_open(vecfile, O_RDWR|O_CREAT, S_IRWXU);
char* ptr = (char*)mmap(NULL, 1024, PROT_READ|PROT_WRITE, MAP_SHARED, vecfd, 0);
close( fd );
pthread_mutex_t* mutex = (pthread_mutex_t*)&ptr[0];
*mutex = PTHREAD_MUTEX_INITIALIZER;
pthread_mutexattr_t attr;
pthread_mutexattr_init(&attr);

```

```
pthread_mutexattr_setpshared(&attr, PTHREAD_PROCESS_SHARED);
pthread_mutex_init(mutex, &attr);
```

Windows

InPortSHMConsumer

- 1.
2. InPortSHMProvider

UUID InPortSHMConsumer RTC

put

```
guard = OpenRTM_aist.ScopedLock(self._mutex)
self._shmем.seek(os.SEEK_SET)
self._shmем.write(data)
data_size = len(data)
mar_data_size = cdrMarshal(CORBA.TC_ulong, data_size)
ret = inportcdr.put(mar_data_size)
del guard
```

Linux shm_open /dev/shm mmap

Windows ReadProcessMemory WriteProcessMemory

Windows CreateFileMapping MapViewOfFile CreateFileMapping

Linux open mmap

Windows Python mmap CreateFileMapping mmap

- File test_SharedMemory.py added

SharedMemory.id

```
interface SharedMemory
{
    void create_memory(in long memory_size, in string shm_address);
    void open_memory(in long memory_size, in string shm_address);
    void close_memory(in boolean unlink);
    void setInterface(in SharedMemory sm);
    PortStatus put();
    PortStatus get();
};
```

create_memory

Windows
Linux /dev/shm mmap

open_memory

close_memory

unlink True /dev/shm

setInterface

CORBA
create_memory

put

put

get

get

SharedMemory.py
SharedMemory

SharedMemory

string_to_MemorySize

1M 1k

write

8byte

read

8byte

InPortSHMProvider InPortProvider SharedMemory
OutPortSHMProvider OutPortProvider SharedMemory

dataport.shared_memory.address SharedMemory

OutPort create_memory InPort rtc.conf port.outport.out.shem_default_size

port.outport.out.shem_default_size: 10M
port.outport.out.shem_default_size: 100k
port.outport.out.shem_default_size: 300

#6 - 02/27/2016 01:14 AM - miyamoto

SharedMemory.id SharedMemory PortSharedMemory

```
interface PortSharedMemory
{
  void open_memory(in long memory_size, in string shm_address);
  void create_memory(in long memory_size, in string shm_address);
  void close_memory(in boolean unlink);
  void setInterface(in PortSharedMemory sm);
  PortStatus put();
  PortStatus get();
};
```

#7 - 03/17/2016 11:02 AM - miyamoto

- % Done changed from 50 to 100

#8 - 08/30/2017 02:18 PM - n-ando

- Status changed from to

Files

Table with 4 columns: filename, size, date, and user. Rows include test_SharedMemory.py files.