```
mcapi_initialize(ENGINE_DOMAIN, CNTRL_NODE, &mcapi_parameters,
&mcapi_info, &err);
   CHECK_STATUS(err);
   // first create two local endpoints
   tpu_endpt = mcapi_endpoint_create(CNTRL_PORT_TPU, &err);
   CHECK_STATUS(err);
   sig_endpt = mcapi_endpoint_create(CNTRL_PORT_SIG, &err);
   CHECK_STATUS(err);
   // now we get two remote <a href="endpoints">endpoints</a>
   mcapi_endpoint_get_i(ENGINE_DOMAIN, TPU_NODE, TPU_PORT_CNTRL,
&tpu_remote_endpt, &r1, &err);
   CHECK_STATUS(err);
   mcapi_endpoint_get_i(ENGINE_DOMAIN, SIG_NODE, SIG_PORT_CNTRL,
&sig_remote_endpt, &r2, &err);
   CHECK_STATUS(err);
   // wait on the <code>endpoints</code>
   while(!((mcapi_test(&r1, &tSize, &err))) && (mcapi_test(&r2, &tSize,
&err))) {
         // KEEP WAITING
   // allocate shared memory and send the ptr to TPU task
   sMem = shmemget(32);
   tmp_endpt = mcapi_endpoint_create(MCAPI_PORT_ANY, &err);
   CHECK_STATUS(err);
   mcapi_msg_send(tmp_endpt, tpu_remote_endpt, sMem, SHMEM_SIZE, priority,
&err);
   CHECK_STATUS(err);
   // connect the channels
   mcapi_sclchan_connect_i(tpu_endpt, tpu_remote_endpt, &r1, &err);
   CHECK_STATUS(err);
   mcapi_pktchan_connect_i(sig_endpt, sig_remote_endpt, &r2, &err);
   CHECK_STATUS(err);
   // wait on the connections
   while(!((mcapi_test(&r1, &tSize, &err))) && (mcapi_test(&r2, &tSize,
&err))) {
       // KEEP WAITING
   // now open the channels
   mcapi_sclchan_recv_open_i(&tpu_chan, tpu_endpt, &r1, &err);
   CHECK_STATUS(err);
   mcapi_pktchan_recv_open_i(&sig_chan, sig_endpt, &r2, &err);
   CHECK_STATUS(err);
   // wait on the channels
   while(!((mcapi_test(&r1, &tSize, &err))) && (mcapi_test(&r2, &tSize,
&err))) {
       // KEEP WAITING
```