

```

do {
    /* Get a handle to remote memory for software cache-access */
    sw_cache_hndl =
mrapi_rmem_get(AGREED_ID_FOR_SW_CACHE, MRAPI_ACCESS_TYPE_SW_CACHE,
                                                         &status);

    // CHECK STATUS FOR ERROR
    if (status != MRAPI_SUCCESS) {
        ERR("Unable to get remote memory for sw cache");
    }

} while (!get_successful(&status));

/* Use the handle to attach to the remote memory */
mrapi_rmem_attach(sw_cache_hndl,
                  MRAPI_ACCESS_TYPE_SW_CACHE,
                  &status);

// CHECK STATUS FOR ERROR
if (status != MRAPI_SUCCESS) {
    ERR("Unable to attach to remote memory for sw cache");
}

do {
    /* Get a handle to remote memory for DMA-access */
    dma_hndl =
mrapi_rmem_get(AGREED_ID_FOR_DMA, MRAPI_ACCESS_TYPE_DMA, &status);

    // CHECK STATUS FOR ERROR
    if (status != MRAPI_SUCCESS) {
        ERR("Unable to get remote memory for DMA");
    }

} while (!get_successful(&status));

/* Use the handle to attach to the remote memory */
mrapi_rmem_attach(dma_hndl, MRAPI_ACCESS_TYPE_DMA, &status);

// CHECK STATUS FOR ERROR
if (status != MRAPI_SUCCESS) {
    ERR("Unable to attach to remote memory for DMA");
}

unsigned int num_entities_processed = 0;

// Pair of request objects to allow us to wait for DMA operations on
// either of two result buffers
mrapi_request_t[2] request;

Entity next_entity_to_process;

bool first = true;

```