

```

#include "shared.h"
#include "mcapi.h"

mcapi_endpoint_t dsp_command_endpoint;
mcapi_endpoint_t dsp_data_endpoint;
mcapi_endpoint_t dsp_data_send_endpoint;

mcapi_pktchan_rcv_hdl_t data_chan;
mcapi_sclchan_rcv_hdl_t command_chan;
mcapi_pktchan_send_hdl_t data_send_chan;

void *buffer;
void *code_buffer;
void *data_buffer;
int code_size;
int data_size;
void *result_buffer;
int result_size;

int dsp_initialize()
{
    mcapi_domain_t domain = 0;
    mcapi_node_t dsp_node = 0;
    mcapi_param_t mcapi_parameters;
    mcapi_info_t mcapi_info;
    mcapi_status_t status;

    mcapi_request_t request;

    mcapi_initialize(domain, dsp_node, &mcapi_parameters, &mcapi_info,
&status);

    CHECK_STATUS(status);

    dsp_command_endpoint = mcapi_endpoint_create(PORT_COMMAND, &status);
    CHECK_STATUS(status);

    dsp_data_endpoint = mcapi_endpoint_create(PORT_DATA, &status);
    CHECK_STATUS(status);
    dsp_data_send_endpoint = mcapi_endpoint_create(PORT_DATA_RECV,
&status);
    CHECK_STATUS(status);

    mcapi_pktchan_rcv_open_i(&data_chan, dsp_data_endpoint, &request,
&status);
    CHECK_STATUS(status);

    mcapi_sclchan_rcv_open_i(&command_chan, dsp_command_endpoint,
&request,
&status);
    CHECK_STATUS(status);

    mcapi_pktchan_send_open_i(&data_send_chan, dsp_data_send_endpoint,
&request,
&status);
    CHECK_STATUS(status);

    return status;
}

```