deviceID: 0-127,

SMs; 128-191,

LLC banks; 192-195,

module inter-link ports

input\_deviceID: from which port to enter the network (may be SM, LLC or the inter-link port of module)

output\_deviceID: which port to leave the network from (may be SM, LLC or the inter-link port of module)

data: request/reply

size: request/reply size (for intra-mudule, size=size/32+(size%32)?1:0\*ICNT\_FREQ\_CTRL\*32, please see Friday’s email)

eg:

(1) local

SM0 sends read request mf to LLC15 (intra module 0)

push( 0, 128+15, mf, (mf->get\_ctrl\_size()/32+(mf->get\_ctrl\_size()%32)?1:0)\*ICNT\_FREQ\_CTRL\*32)

pop(128+15)

LLC15 sends read reply mf to SM0 (intra module 0)

push( 128+15, 0, mf, (mf->get\_size()/32+(mf->get\_size()%32)?1:0)\*ICNT\_FREQ\_CTRL\*32)

pop(0)

(2) neighbor

SM0 sends write request mf to LLC16 (inter module 0->1)

push(192+0, 192+1, mf, mf->get\_size())

pop(192+1)

LLC16 sends write reply mf to SM0 (inter module 1->0)

push(192+1, 192+0, mf, mf->get\_ctrl\_size())

pop(192+0)

(3)not neighbor

SM0 sends write request mf to LLC32 (inter module 0->3->2)

push(192+0, 192+3, mf, mf->get\_size())

pop(192+3)

push(192+3, 192+2, mf, mf->get\_size())

pop(192+2)