% 64 tap filter
  set 64,r0
  set 64,r4
% coefficient start address in memory = 0
  set 0,r1
% data start address = 0
  set 0,r3
% insert data in order
  in order
  l1:
  set 0,r6  % t
  l2:
% Mac, Get coef in descending order
  % get coefficient from start address = t
  mov r1, r6
  mac_coef2 (ordr,ordr,2) r3,r6
% next output
  addimm r6,1,r6
  Compare counter, End
  comp r6,r4
% branch if less than
  bl l2
  nop
% out processed data and insert new on in order
  io (ordr,ordr)
  jumb l1
  nop