```
0001  function [sim, I_list, PW_list]=ld_charge_cntrl_multich(sim, ev, v_list, Nch)
0002  //
0003  // Charge control for multiple channels using the same lookup table
0004  //
0005
0006     // Get table data and their lengths
0007     tabPW_ = CHCNTL.tabPW;
0008     tabI_ = CHCNTL.tabI;
0009     vlen = length(tabI_);
0010
0011     // The vectors containing the tables
0012     [sim,TABI] = ld_constvec(sim, ev, tabI_ );
0013     [sim,TABPW] = ld_constvec(sim, ev, tabPW_ );
0014
0015     // init output lists
0016     I_list = list(); PW_list = list();
0017
0018     // loop
0019     for i=1:Nch // Create blocks for each channel by a for loop
0020
0021        // extract normalised stimulation for channel i
0022        v = v_list(i);
0023
0024        // calc index
0025        [sim, index] = ld_gain(sim, ev, v, vlen);
0026        [sim, index] = ld_add_ofs(sim, ev, index, 1);
0027
0028        // look up the values
0029        [sim, I] = ld_extract_element(sim, ev, TABI, index, …
                                                    vecsize=vlen );
0030        [sim, PW] = ld_extract_element(sim, ev, invec=TABPW, …
                                  pointer=index, vecsize=vlen );
0031
0032        // store signals
0033        I_list($+1) = I; PW_list($+1) = PW;
0034     end
0035  endfunction
```