```
0001  function [sim, y]=limited_int(sim, ev, u, min__, max__, Ta)
0002    // Implements a time discrete integrator with saturation
0003    // of the output between min__ and max__
0004    //
0005    // u * - input
0006    // y * - output
0007    //
0008    // y(k+1) = sat( y(k) + Ta*u , min__, max__ )
0009
0010      [sim, u__] = ld_gain(sim, ev, u, Ta);
0011
0012      // create z_fb, because it is not available by now
0013      [sim,z_fb] = libdyn_new_feedback(sim);
0014
0015      // do something with z_fb
0016      [sim, sum_] = ld_sum(sim, ev, list(u__, z_fb), 1, 1);
0017      [sim, tmp] = ld_ztf(sim, ev, sum_, 1/z);
0018
0019      // Now y becomes available
0020      [sim, y] = ld_sat(sim, ev, tmp, min__, max__);
0021
0022      // assign z_fb = y
0023      [sim] = libdyn_close_loop(sim, y, z_fb);
0024  endfunction
```