class mem\_sequence extends uvm\_sequence#(mem\_sequence\_item);

`uvm\_object\_utils(mem\_sequence)

function new(string name = "mem\_sequence");

super.new(name);

endfunction

virtual task body();

repeat(20) begin

req=mem\_sequence\_item::type\_id::create("req");

wait\_for\_grant();

req.randomize();

send\_request(req);

wait\_for\_item\_done();

$display("-----------sequence------------");

req.print();

end

endtask

endclass