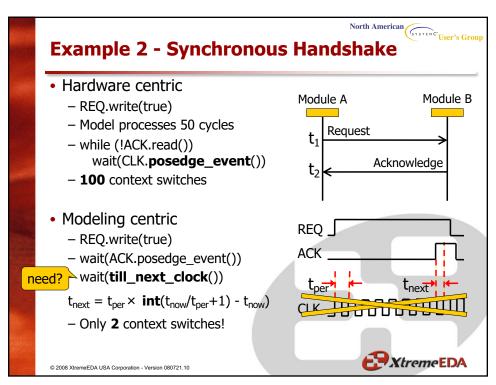
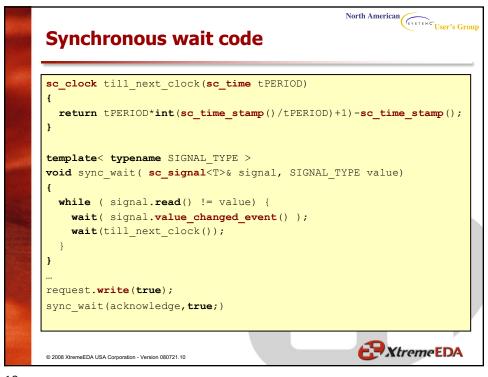
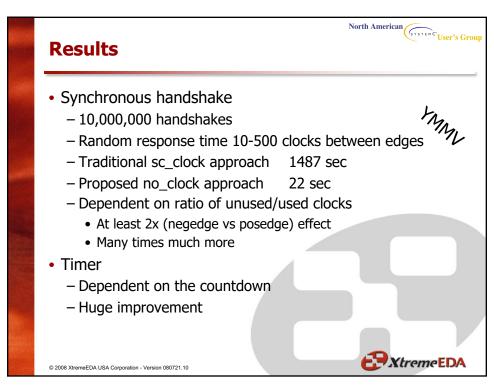
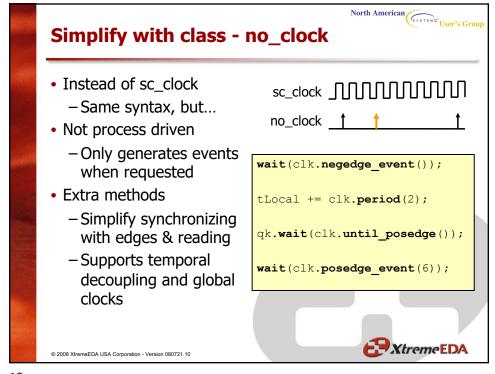


```
North American User's Group
Example 1 - Timer Code
void timer module::b_transport
 tlm_generic_payload& payload
 sc time& tLOCAL) {
  // Write to counter register
  if (payload.is write() and addr == counter) {
  memcpy(&val,trans.get_data_ptr(),4);
   tENDTIME = sc time stamp() + tLOCAL + ( val * tPERIOD );
   timeout event.notify(tENDTIME - sc_time_stamp());
  // Read from counter register
  if (payload.is_read()
      and addr == counter) {
   data = (tENDTIME - sc_time_stamp() - tLOCAL) / tPERIOD;
   memcpy(trans.get_data_ptr(), &data, 4);
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```









```
North American User's Group
no_clock_if.h API sampler
const sc core::sc time(1.0,SC NS) ns;
no_clock clk1("CLK1",/*period*/10*ns,/*duty*/0.5,/*offset*/0*ns
                    ,/*1stpos*/true ,/*smpl*/1*ns,/*chg*/5*ns);
no_clock clk2("CLK2",/*period*/12*ns,/*duty*/0.3,/*offset*/1*ns
                    ,/*1stpos*/false,/*smpl*/3*ns,/*chg*/6*ns);
// Calculate the delay till... (use for temporal offset)
sc time until_posedge ( unsigned int cycles = OU ) const;
sc_time until_negedge ( unsigned int cycles = OU ) const;
sc time until_anyedge ( unsigned int cycles = OU ) const;
// Wait only if really necessary (for use in SC THREAD)
void wait_posedge ( unsigned int cycles = OU );
void wait_negedge ( unsigned int cycles = OU );
void wait_anyedge ( unsigned int cycles = OU );
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```

