```
  PUSH(barrier_address); Loop:
  t = parallel_expr;
  gather_result = WAIT_GATHER(barrier_address, t);
  barrier_address &= gather_result;
  if (t == 0) goto Exit;
stat;
  goto Loop; Exit:
  barrier_address = POP();
  WAIT(barrier_address);
```

Listing 6: Structured SIMD parallel `while` loop