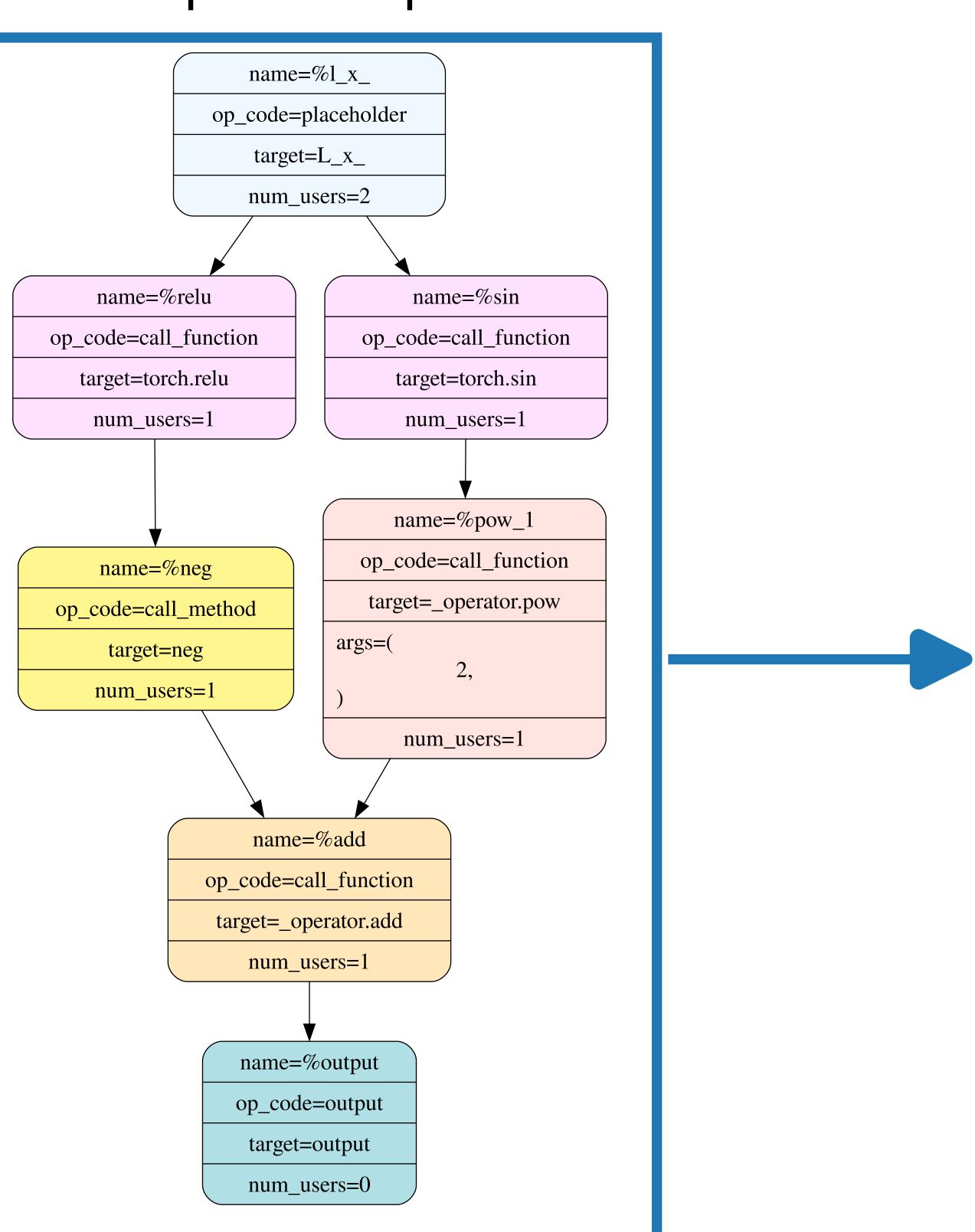
Graph Capture

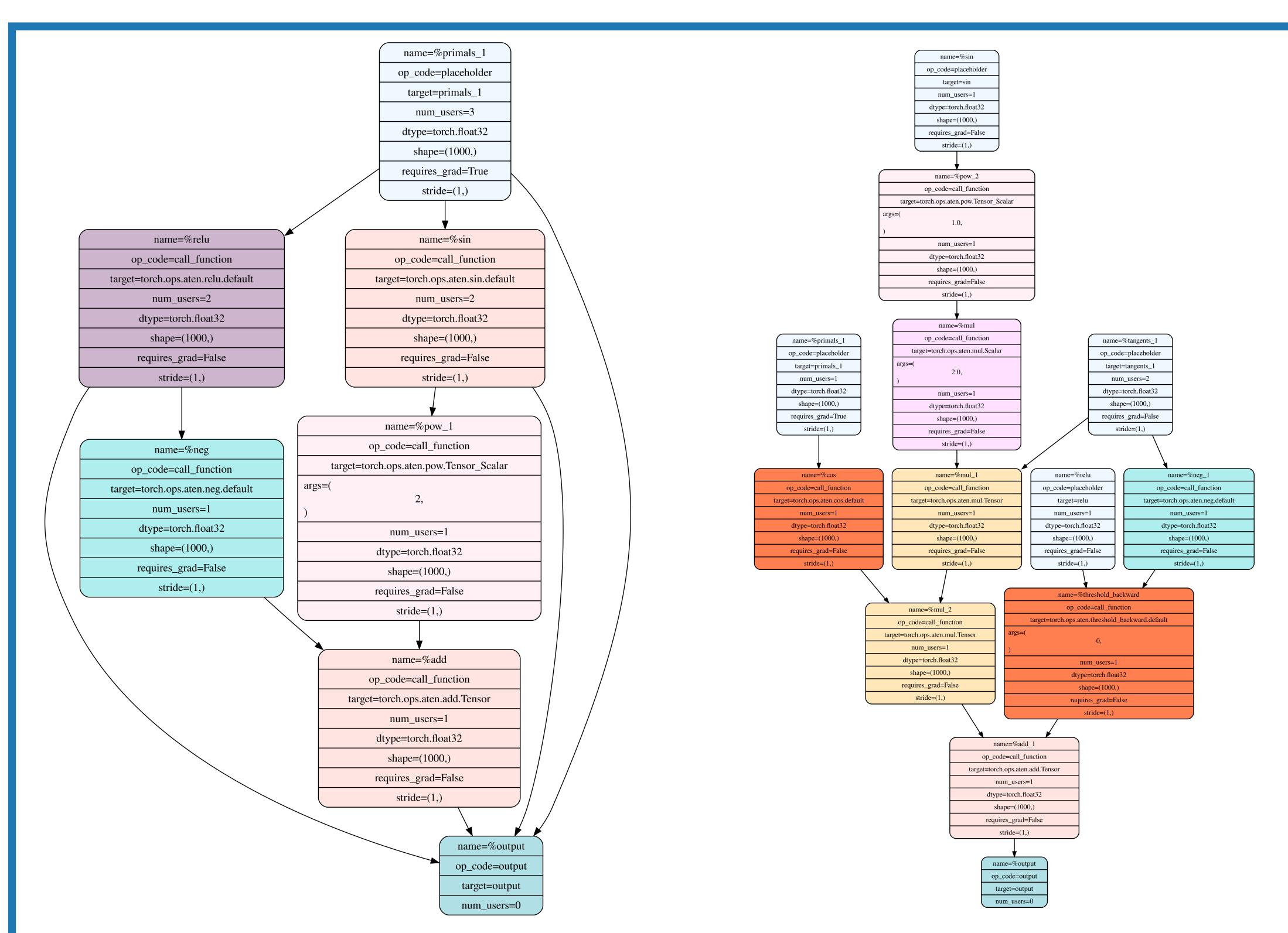


Forward Graph

Code Generation

```
from torch import empty_strided, device
from torch._inductor.codecache import AsyncCompile
 from torch._inductor.select_algorithm import extern_kernels
aten = torch.ggs.aten
 assert_size_stride = torch.<u>_C</u>.<u>_dvnamo</u>.guards.assert_size_stride
reinterpret_tensor = torch.ops.inductor._reinterpret_tensor
async_compile = AsyncCompile()
cpp_fused_add_cos_mul_neg_pow_relu_sin_threshold_backward_0 = async_compile.cpp('''
#include "/tmp/torchinductor_pollakg/ib/cibrnuq56cxamjj4krp4zpjvsirbmlolpbnmomodzyd46huzhdw7.h"
extern "C" void kernel(const float* in_ptr0,
                        const float* in_ptrl,
                        float* out_ptr0)
         for(long i0=static_cast<long>(0L); i0<static_cast<long>(1000L); i0+=static_cast<long>(8L))
             auto tmp0 = at::vec::Vectorized<float>::loadu(in_ptr0 + static_cast<long>(i0));
             auto tmp1 = at::vec::Vectorized<float>::loadu(in_ptr1 + static_cast<long>(i0));
             auto tmp2 = tmp1.sin();
             auto tmp3 = at::vec::Vectorized<float>(static_cast<float>(2.0));
             auto tmp4 = tmp2 * tmp3;
             auto tmp5 = tmp0 \star tmp4;
             auto tmp6 = tmp1.cos();
             auto tmp7 = tmp5 * tmp6;
             auto tmp8 = at::vec::clamp_min(tmp1, decltype(tmp1)(0));
             auto tmp9 = at::vec::Vectorized<float>(static_cast<float>(0.0));
             auto tmp10 = to_float_mask(tmp8 <= tmp9);
             auto tmp11 = tmp0.neg();
             auto tmp12 = decltype(tmp9)::blendv(tmp11, tmp9, tmp10);
             auto tmp13 = tmp7 + tmp12;
             tmp13.store(out_ptr0 + static_cast<long>(i0));
```

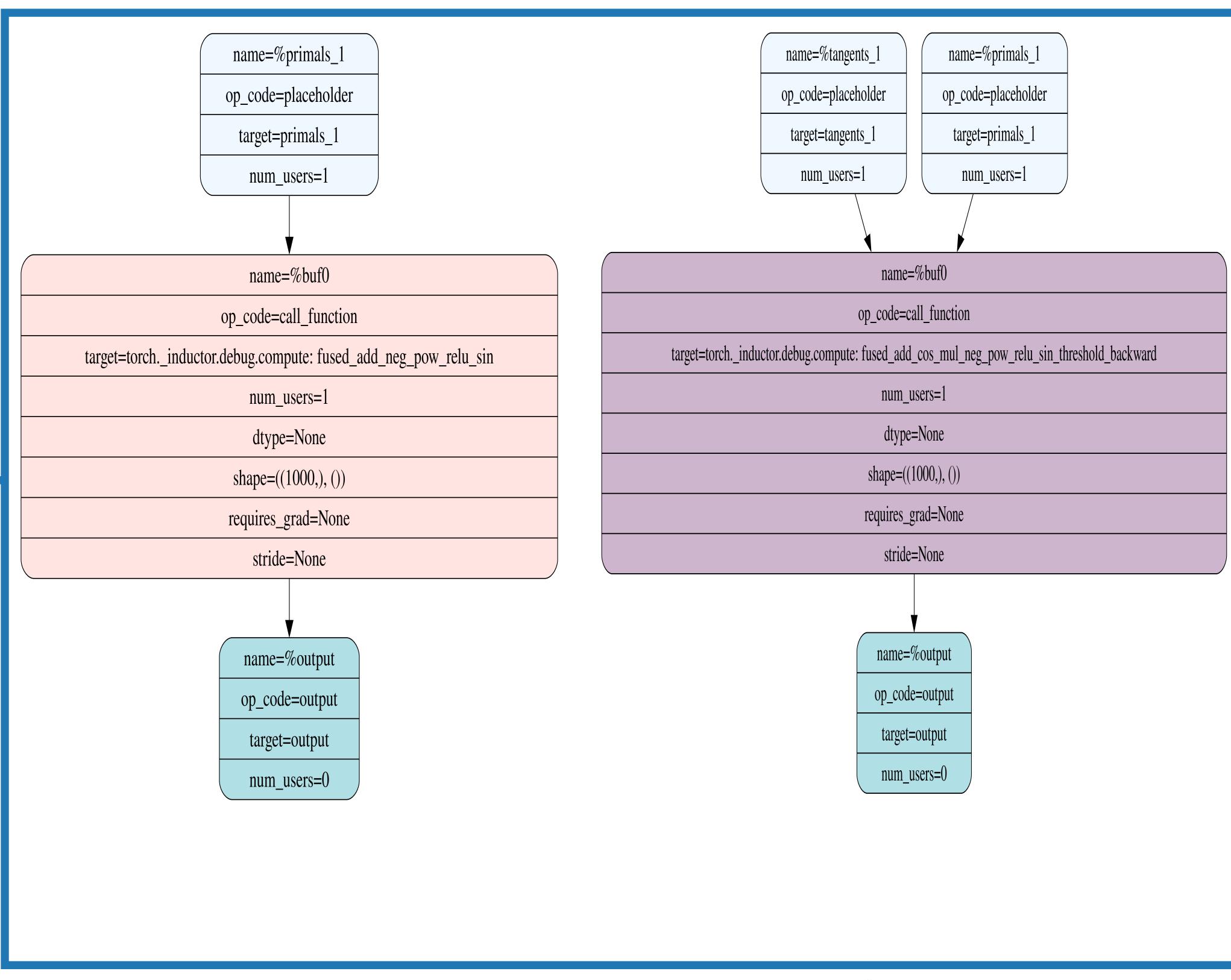
ATen AOT Automatic Differentiation



Forward Graph

Backward Graph

Backend Graph Optimization



Operators Fusion, Memory Planning,...

C++, OpenMP, CUDA, Triton